

26 JULY 2004

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3 [9.10 am]

4 **CHAIR:** Good morning everyone, can I just ask if you can hear
5 me in the back of the room? Yes thank you. I'd like to
6 welcome everyone to the Commerce Commission's second day
7 of the conference on the Draft Gas Pipelines Inquiry
8 report. I'm not going to go through the full statement
9 that I made at the beginning of the first day, but I did
10 want to recap on one or two matters.

11 The first is we have today, as we will have on each of
12 the days of the conference, a number of experts who will
13 be attending and presenting at the conference. I would
14 like to stress once again that their role is as experts in
15 their field. An expert is not to act as an advocate for
16 any particular party and I would ask you to note that if
17 the Commission considers that experts are in fact acting
18 as advocates for a particular party, their submissions
19 will be treated as though they are part of that particular
20 party's submission rather than as expert opinion.

21 I also wanted to note that there is a great deal of
22 confidential material in the submissions and we are
23 committed to holding as much of the proceeding in open
24 session as possible, but if we need to go into a closed
25 session to consider confidential material I'm prepared to
26 do so. I would ask that if we inadvertently mention any
27 confidential information or if any party does, if you
28 could alert us to that immediately, don't wait for a break
29 in the discussion to do so. Clearly we will endeavour to
30 ensure that does not happen.

31 The final comment I wanted to reiterate today has to

1 do with the treatment of tax within the Commission's cost
2 benefit analysis. You will be aware that after the
3 release of the Commission's Draft Report a number of
4 interested parties suggested that the Commission's cost
5 benefit analysis did not correctly account for the
6 interest tax shield for some of the gas pipeline
7 businesses subject to this inquiry. As a result of these
8 submissions the Commission has considered the issue and
9 agrees that the interest tax shield has been incorrectly
10 applied in some cases.

11 In addition to the treatment of the interest tax
12 shield the Commission has requested further tax
13 information from the businesses to ensure that the tax
14 figures provided by the businesses and used in the cost
15 benefit analysis are the actual tax paid figures. The
16 Commission's proposed approach to calculating any excess
17 returns is based on using the actual tax paid.

18 Affected parties will have an opportunity to review
19 and comment on the Commission's treatment of the interest
20 tax shield and the tax figures used in the cost benefit
21 analysis prior to the final report being provided to the
22 Minister of Energy. That opportunity will be for parties
23 to review the information and provide written comment to
24 the Commission. That will happen after the conference is
25 finished.

26 Before we turn to the presentations for today I ask if
27 anyone has any questions on any of those matters or any
28 other matter before we start. [**No comments**]. If not then
29 I would like to now welcome NGC and ask NGC to introduce
30 your participants and please begin with your submission
31 when you are ready. Thank you.

1 right is Mr Phil James who's the Chief Executive of NGC;
2 on my far right Dr Paul Hodgson, I think who's known to
3 the Commission; and on my left Mr Ian Wilson, and those
4 three will be leading the main three initial
5 presentations.

6 Indeed if I just, turning to the slide that's on the
7 screen at the moment, quickly overview the presentation,
8 or parts of our presentation today. I'll begin by
9 providing just a high level summary of the key matters to
10 be addressed today, looking across each of the presenters.

11 I'll be followed by Mr James who will provide some key
12 overall NGC perspectives on the Draft Report and then will
13 highlight some key industry developments.

14 Mr Wilson on my left, he's the transportation manager
15 in NGC's gas processing and transportation group, he will
16 offer some perspectives on the more detailed aspects of
17 the market and NGC's business, including matters such as
18 inter-fuel competition, pricing and investment.

19 The next presentation will be from Paul Hodgson and he
20 may assisted in various matters by Mr Andy Nicholls from
21 Chapman Tripp who I think is known to the Commission and
22 is sitting behind us. They will focus on some submissions
23 and concerns around the Commission's model and the
24 conclusions that have been drawn in the Draft Report on
25 the model.

26 Following that, Professor Lew Evans and Nathan Strong
27 from Charles River Associates. I see Nathan is there,
28 Professor Evans I think will join us later. They will add
29 their economic analysis of the Commission's model and
30 related issues and we'll then conclude with any final
31 comments and questions.

1 Turning then to the next slide, what I have is just
2 three slides which seek to very briefly summarise the key
3 points that are going to be made by NGC today. Firstly,
4 NGC has sought to highlight a view that what we call gas
5 is different. The New Zealand gas market is different to
6 gas markets overseas. Within New Zealand there are
7 substantial differences to other energy markets,
8 particularly electricity and this should be reflected in
9 various aspects of this inquiry.

10 I do note that NGC's commissioned a detailed report on
11 this particular issue from CRA and that emphasises the
12 importance which we do attach to it. One key way the
13 differences between gas and electricity are reflected is
14 in the respective regulatory regimes. In general NGC
15 seeks to retain a separate regulatory focus for gas, which
16 meets the needs of the New Zealand gas markets.

17 NGC also considers that gas remains a marginal fuel,
18 particularly given recent supply side issues which we'll
19 talk to you some more about today. New Zealand does not
20 have large or mature markets for trading gas. It cannot,
21 we say, be treated as a commodity. There have been
22 significant changes in the gas supply equation in recent
23 months, very significant changes, and market conditions
24 are likely to significantly constrain transportation
25 prices for the foreseeable future.

26 Moving to the second slide of my summary. Not
27 surprisingly the result of these changes in the gas supply
28 situation mean that the gas transportation market is
29 continuing to evolve. It continues to be impacted by the
30 volatility of the New Zealand markets and growing inter-
31 fuel competition. We emphasised these issues at the

1 framework conference and we'll update that further today.

2 Accordingly, we say that gas transportation cannot be
3 viewed as a static market. Changing supply side and
4 demand side factors mean that NGC is constantly reviewing
5 and managing its transportation business risks. NGC is
6 needing to invest just to remain competitive. NGC needs
7 to strongly underline these investment and risk issues at
8 this stage in the inquiry process. The presenters will
9 provide some significant particular illustrations of this
10 point.

11 NGC does have significant concerns around the model
12 developed by the Commission for the purposes of the Draft
13 Report. Firstly at a practical level, the model we say
14 departs materially from the actual business and market
15 models which NGC maintains as an experienced market
16 participant. NGC as a result takes issue with a number of
17 the key inputs to the Commission's model. We'll highlight
18 today just the main issues which we've addressed in more
19 detail in the written submission, however together these
20 will indicate the sensitivity of the Commission's model to
21 those key assumptions. Obviously thence to the outcomes
22 or recommendation s that are drawn from it.

23 NGC's position is that there are a number of
24 significant improvements or corrections which should be
25 made to the Commission's model. Several of these
26 improvements are of such a magnitude that even on their
27 own, even individually, they would largely or entirely
28 remove the excess NGC profits found by the Commission in
29 the Draft Report.

30 NGC's submission has also been that the Commission's
31 model is not an appropriate one of itself. However, at a

1 minimum we say it requires a number of substantial
2 corrections to make it more realistic. These lead to a
3 conclusion using the Commission's own core model, we say
4 that there are no excess NGC profits, so that's where we
5 get to in our work on the model since the release of the
6 Draft Report.

7 NGC has outlined in its submission that we believe
8 there is a better model which is available to the
9 Commission, but which we say also leads to that same
10 conclusion that there are no excess NGC profits, and
11 that's covered in the presentation today from CRA as well
12 as in our written submission.

13 Bringing those things together, what we say is that if
14 NGC's submission were accepted on either version, in other
15 words if we continue to work with the Commission's model
16 with the corrections we wish to see occur, or with the
17 alternative model which has been developed with the
18 assistance of CRA, we would submit that there are no
19 benefits from price control in relation to NGC.

20 However, the Draft Report reaches the point of
21 assessment of benefits to acquirers and then benefits to
22 the public from price control, so dealing with your
23 analysis at that point, we'll indeed come to that point in
24 the presentations, and including the Commission's approach
25 to foreign investment; and as you're aware that matter
26 affects NGC particularly as it's the only one of the
27 suppliers recommended for control in the Draft Report
28 which has substantial foreign ownership, so that's a
29 matter of particular importance to us.

30 That concludes my summary of the key issues to be
31 covered by NGC. I'm happy to take any questions at that

1 point, otherwise each of those points will be covered in
2 what follows, and I would otherwise propose to turn to
3 Mr James and ask him to commence his presentation.

4 **CHAIR:** I was very tempted to interrupt you and ask questions,
5 but I think it's more appropriate to ask them in the
6 context of the rest of the presentation, I'll just confirm
7 that with my colleagues; yes, okay.

8 **MR BIELBY:** Thank you, I do appreciate there's a number of
9 propositions you may not agree with at this point but we
10 will attempt to cover those as we go through. Mr James.

11 **MR JAMES:** Thank you Steve. Good morning Chair, good morning
12 Commissioners. This is the first time that I have
13 appeared before the Commission in nearly three years in
14 New Zealand, so I think that's a good sign, I'm going to
15 take it as one.

16 This morning I'm going to summarise not the detail of
17 our submissions, it's not my intention to go to the detail
18 of our submission, there are others far better qualified
19 than me to do that, but really to attempt to summarise
20 some key points that I think the Commission ought to have
21 regard to before it reaches its final conclusion.

22 I was appointed to this position in December 2001 and
23 I think I would qualify as a practical expert, and in
24 saying that I've worked in the gas industry in New Zealand
25 and in Australia for nearly 30 years now. I started out
26 as a self-employed person in what was then the LPG
27 industry in Canberra, I was there when that city was
28 reticulated from scratch. I've held many management
29 positions, senior management and other positions in the
30 Australian Gas Light Company, I was employed by that
31 company for more than 20 years, and now for the last two

1 and a half years as the Chief Executive of NGC Holdings.

2 So I'm going to be giving you a presentation from my
3 perspective, and in starting what I guess I'd like to
4 establish is the Commission of course will use its
5 expertise -- will use various modeling techniques to
6 evaluate whether or not excess profits exist in the gas
7 industry. Our submission is that they don't and we'll
8 robustly defend that. But my purpose is not to argue that
9 particular point, it's to try and put in context the
10 industry and the set of circumstances that the industry
11 finds itself in today so that any analysis of the gas
12 industry can be contextual.

13 In summarising then what I'm going to attempt to do
14 today, there are three key points that I really want to go
15 over today. The first is that why treating the gas market
16 in the same way as you would treat electricity or
17 telecommunications may be misleading. In other words,
18 make the point that gas is different for a number of
19 reasons.

20 The second point then is about the nature of
21 regulation in an economy the size and structure of
22 New Zealand's and why the approach here should not
23 necessarily be the same as the approach in other
24 jurisdictions. In other words, we shouldn't regulate just
25 because others do.

26 The third and final point that I will make this
27 morning is that recent changes in the New Zealand gas
28 market, particularly those changes that have occurred in
29 the last couple of years, and I'll attempt to describe
30 them, have imposed a significant market discipline on gas
31 transportation services that didn't previously apply and

1 therefore regulation may be a blunt instrument. In other
2 words, the point that I want to make there is the small
3 benefit which may be accrued to consumers today from
4 regulation could be at a substantial cost to consumers in
5 the future.

6 Just to start then I'd like to really, if you like,
7 break the gas industry or the gas market into three
8 concise periods, or clear periods. The first, the Maui
9 period from about 1970 through to 2001. The second, this
10 market transition period which has been going on for all
11 of the time that I've been here working in New Zealand,
12 and we see will continue out for the next couple of years;
13 and then finally beyond about 2007, late 2006, 2007, a new
14 period for the gas industry and one that we've interpreted
15 an uncertain future and I we'll be able to demonstrate
16 this morning why it's uncertain.

17 Just looking now back at that Maui period, if you
18 like, the golden era of gas in New Zealand. No wonder it
19 was called that; dependence on a single field but a world
20 class field. For an economy the size of New Zealand to
21 have been in many ways fortunate to discover the Maui
22 Field was a real boon. The Maui Field had tremendous
23 potential both in volume, it's ability to supply the
24 market, and in its flexibility. The swing or the
25 flexibility available from that field has been very
26 substantial and quite unusual even for fields of that
27 size.

28 Supply for all of that period exceeded demand by a
29 country mile. Gas prices as a consequence were low and
30 stable given the contractual arrangements that were
31 entered into at the beginning of the Maui period and that

1 period of time has witnessed in New Zealand significant
2 market development in petrochemicals, a petrochemicals
3 industry that may otherwise not have evolved in
4 New Zealand. It was evolved as a sink for natural gas.

5 A power generation market, I understand that the
6 initial focus of the development of the Maui Field was to
7 assign that gas to power generation. In the end the
8 economy wasn't big enough to sustain that over a period of
9 time, hence the rise of petrochemicals. But certainly gas
10 has fuelled most of the thermal marginal power stations in
11 that period.

12 The other interesting feature is the rise of energy
13 intensive industrial customers. Off the back of low,
14 stable, long-term prices a range of industrial consumption
15 has evolved in New Zealand which, it is arguable, would
16 not have evolved under different energy market
17 circumstances. Fonterra, wood industry, those sorts of
18 things are energy intensive users of gas and it's quite
19 broadly believed that they developed because of those
20 particular market situations.

21 As a consequence of all that there are -- every silver
22 lining has a cloud, if you like, to mix metaphors, there
23 was no exploration activity in that period at all. Prices
24 were low, there was plenty of gas, there was no incentive
25 for people to go out and find gas. In fact people who
26 were drilling holes for oil and found gas regarded that as
27 a failed hole and immediately covered it back up.

28 The second period then is this transition period, the
29 period that started I think probably formally with the
30 announcement that Maui reserves were likely to be
31 redetermined and that after Shell's acquisition of the

1 Fletcher Challenge Energy assets they became aware pretty
2 quickly that the Maui Field was not going to run to its
3 forecast volumes and therefore a redetermination was
4 called.

5 What's happening now in this period is pretty quickly
6 Maui's supply is winding down, but more importantly from
7 an industry perspective the flexibility is coming to an
8 end. So the Maui field no longer has the ability to ramp
9 up, to allow power stations, to allow New Plymouth Power
10 Station to come on-line very quickly, in the event of a
11 transmission failure or something like that in the
12 electricity market; that swing is ending and because of
13 that more complex contractual arrangements are evolving as
14 we speak.

15 Demand now exceeds supply and has done not so much in
16 a physical sense, our forecasts will demonstrate that at
17 current levels of demand, we don't think that supply falls
18 below demand until about 2010, 2011 from a physical sense,
19 but in the contract market, demand has exceeded supply now
20 for a little while, couple of years.

21 The consequence of that then, of those forces is a
22 step change to wellhead prices. Mixed in here, and I
23 haven't identified it as a particular issue on the slide,
24 is the emergence of upstream consolidation. Fewer more
25 powerful suppliers which of course has sped up this step
26 change to wellhead prices. The market that has evolved
27 now in this transition from Maui gas is a market with
28 greater market power for producers.

29 A decline in gas market demand. Petrochemical demand,
30 or petrochemical supply is a more accurate answer. Prices
31 have moved above the levels at which a petrochemicals

1 industry is sustainable in New Zealand. Methanex has now
2 not only by virtue of the fact that its Maui entitlements
3 wound down earlier than the other Maui participants
4 because of its consumption, it was ahead of its profile,
5 so its Maui supply wound down; but it simply has, even
6 though it's been pretty aggressive in the short-term
7 competing for gas in the market, Methanex's own view, it's
8 own public view, is that it's not able to sustain
9 petrochemicals production in this country with wellhead
10 prices at the level that they are today. So we've seen
11 Methanex wind down pretty substantially over the last 18
12 months.

13 Power generation, we're already seeing now some
14 displacement of power generation, particularly at the less
15 efficient end. So New Plymouth Power Station for
16 example's converting to liquids because the gas and the
17 volumes required by the New Plymouth Power Station is
18 simply not an economic prospect, it's better for people to
19 divert that gas to more efficient power stations where
20 they exist or to alternative uses, particularly if that
21 fuel can be, or the power station can be converted to
22 liquid fuels, things like that.

23 By the way I'm happy to take --

24 **CHAIR:** I was just going to ask if we could interrupt you for
25 a minute because Commissioner Bates has a question.

26 **MS BATES:** Yes, I just wanted to ask you about what you think
27 will happen about demand exceeding supply if and when the
28 supply to Methanex stops, because I think it takes about
29 40 percent of the gas at the moment and one would think
30 that there'd be a whole lot more gas available for other
31 uses.

1 **MR JAMES:** At one time it did take 40 percent. At one time
2 gas market demand exceeded 200 petajoules a year, Methanex
3 took pretty close to 100. Today Methanex's consumption, I
4 think I'm right, is less than 40 a year.

5 **MS BATES:** Do you know what it is? I think we've been working
6 on a 40.

7 **MR JAMES:** It's around 40. Sorry 40 petajoules not percent.
8 So 40 petajoules, the total market is now probably at
9 around 170 petajoules or something like that a year. So
10 what we're seeing is a decline in the market, driven in
11 part by Methanex's reduction -- Methanex are now running
12 one train, I understand, at Motunui, so their consumption
13 is back to about 40 petajoules a year. Methanex could
14 give you this information, I don't have accurate
15 information, but the market forecast is that Methanex
16 consumption will reduce by half in the foreseeable future
17 and then potentially to zero, post their current round of
18 buying. I guess we're assessing still what they may do.

19 **MS BATES:** Yes, what I asked you was how you think that will
20 affect the supply to other uses. Wouldn't you expect
21 there'd be more available then for other uses?

22 **MR JAMES:** No, I don't, because I expect Methanex to --
23 Methanex has already secured enough gas for use in 2004
24 and 2005, partly from the Maui redetermination, the
25 negotiations around Maui redetermination and it's also
26 participated, I understand, in the Pohokura sales round to
27 a limited extent. The announcements that we have seen
28 from Methanex indicate that it's very unlikely to continue
29 to do that. Methanol prices internationally are on the
30 rise again and Methanex's own assessment, from my
31 understanding, is that they'd be unlikely to be a

1 competitive buyer for gas in the medium term. So as they
2 intend to use the entitlement they have now, or the
3 holding that they have now, post that we haven't factored
4 Methanex in to our calculations. Neither has the Ministry
5 of Economic Development in its future forecasts.

6 **MS BATES:** So you're treating it as if it won't continue?

7 **MR JAMES:** Beyond about 2006 that's right.

8 What we're also seeing now is the beginning of the
9 decline that we forecast in energy intensive industrials.
10 There's been plenty of press speculation in recent months
11 that some of these customers, Fonterra, Fletcher Building,
12 Carter Holt Harvey and the like, are contemplating two
13 things; one is a transfer away from gas to other fuels, to
14 wood waste or coal, to other alternatives to gas, or
15 alternatively off shoring, moving production from
16 New Zealand to other jurisdictions where energy supply is
17 perhaps not necessarily any less expensive but more
18 reliable with better long-term prospects.

19 What we are seeing in this transition then, finally,
20 is the early stages of new exploration. In our forecast
21 we've suggested that -- there are a number of
22 prerequisites before exploration would occur in
23 New Zealand, the first of those has been met, that is
24 wellhead prices have moved to a level now where it's
25 economic to find and develop gas fields.

26 The Maui contract or contractual issues have been
27 resolved and that's removed a contractual overhang, a
28 level of uncertainty in producers that they would get
29 going and suddenly producers would announce another 100
30 petajoules of Maui gas at historic prices. So that has
31 been removed and in the last couple of months the

1 Government has announced a package of measures around tax
2 and royalty and other incentives which has added to the
3 attractiveness, if you like, or removed what explorers
4 have seen as some of the hurdles.

5 So we're now starting to see the very early stages,
6 the tentative signs of a level of new exploration which
7 will be required if gas is to move back into a balanced
8 supply and demand position.

9 **MR STEVENS:** Mr James, what do you see as the key impact on
10 gas pipeline providers as a result of this move from the
11 Maui period to the transition period?

12 **MR JAMES:** Uncertainty around the future of gas and the
13 likelihood that demand will decline over time.

14 **MR STEVENS:** That is the demand for pipeline services as
15 opposed to the demand for gas?

16 **MR JAMES:** The demand for gas -- one is a function of the
17 other. The demand for gas is immediately felt across
18 pipelines. If there are fewer energy intensive
19 industrials then we will haul less gas through our
20 transmission pipelines. That won't necessarily lead
21 immediately to a decline in the amount of gas transported
22 through networks, through low and medium pressure network
23 systems, but that's the smaller part of the business.

24 From our transmission point of view, any reduction in
25 the petrochemical industry generally, most of Methanex's
26 gas is hauled through the Maui pipeline not NGC pipeline,
27 but NGC hauls gas for petrochemical use. It does for
28 power generation and it certainly -- NGC hauls the bulk of
29 industry gas in New Zealand.

30 So uncertainty in the market, rising prices, less gas
31 and a shift away from gas, or a shift from New Zealand

1 off-shore, all of those will impact the throughput of gas
2 through our transmission pipelines.

3 **MR STEVENS:** Do you see it as a decline in gas demand per se
4 given that gas is the marginal fuel for a lot of the
5 electricity generation, is it actually decline in gas
6 demand?

7 **MR JAMES:** Well this may be a little circular argument. I
8 think initially there's demand for gas which can't be met
9 and then, given the realities of business life,
10 alternatives must be found and once those alternatives are
11 found then demand for gas falls. So one sort of begets
12 the other.

13 At the moment we're in that phase where demand for gas
14 remains high because capital's been invested in existing
15 gas fired processes. If that demand can't be met in the
16 reasonable period, in this transition period, then I think
17 we'll see the rapid rise of alternatives.

18 **MR STEVENS:** Just to pick up on that last point, do you see
19 the 2006 as the cut-off whereby if new fields aren't
20 discovered that there will be a shift away from gas fired
21 power stations for example?

22 **MR JAMES:** 2006, 2007, yes, we do, and the reason for that is
23 earlier I suggested that there would be a physical
24 shortfall, the current physical demand supply balance
25 would change by about 2011. Given the development time
26 and approvals, Resource Management Act, things like that,
27 required to get alternatives into the market, we see 2006,
28 2007 as the end of the window for that development.

29 So in our view if significant indigenous gas, if
30 enough indigenous gas to match yearly demand isn't
31 discovered and developed by 2006, 2007, then we'll

1 inevitably shift into a phase where alternatives like LNG
2 and things like that will be contemplated. They change
3 the cost base in New Zealand forever and that will in fact
4 create the very decline in industrial demand that we fear.

5 **CHAIR:** I want to just follow-up please on a few points that
6 you've made and I think the Commission wouldn't have
7 difficulty accepting the proposition you stated that
8 New Zealand shouldn't regulate simply because others do, I
9 think that's a perfectly reasonable statement to make.

10 However, the test in New Zealand is about net benefits
11 to consumers and that's what the inquiry is here to look
12 at. We generally do accept that we have to look at
13 dynamic efficiency concerns, in particular investment
14 incentives. But I wanted to go to the sort of scenario
15 that you've put up and I think at some point you indicated
16 that New Zealand gas markets are different as well, not
17 only is gas different but New Zealand gas markets are
18 different and we need arrangements that are appropriate to
19 the market here.

20 You've emphasised the difference Maui supply made to
21 the development of gas markets in New Zealand and I think
22 that's probably -- no-one would question that point, but
23 it seems to me if I look at the scenario as you've put it
24 up, while that's an explanation of why we might have been
25 different in the past, the movement in New Zealand is a
26 movement towards markets that look far more similar to
27 what we see off-shore. That still begs the question of
28 whether their solutions are appropriate here, but
29 nevertheless we're moving towards not further away from
30 the dynamics of markets that we see in other jurisdictions
31 with respect to gas markets. I'd just like your comment

1 on that please.

2 **MR JAMES:** Two things, I'm getting to other issues and I agree
3 with you completely. While the Maui period may have made
4 us different, in fact we are now becoming more like other
5 markets, except for one pretty substantial and significant
6 issue, we have nothing like the size and therefore the
7 resilience in the gas industry in New Zealand of other
8 markets and that's a point that I either haven't argued
9 well enough yet or I'm yet to make and it's covered on a
10 subsequent slide. So I do accept that on the face of
11 it -- in this period or this part of presentation I'm
12 simply, if you like, creating for the Commissioners a
13 pretty simplified assessment of where the New Zealand gas
14 industry has been and where it's going. I will come to
15 argue, though, that while the market arrangements look
16 more like other jurisdictions now there's still the
17 fundamental issues of size and fragility if you like.

18 **CHAIR:** Isn't that size and fragility related to the history
19 and we see that history unwinding now?

20 **MR JAMES:** Yes.

21 **CHAIR:** I think there's all sorts of reasons why, there may be
22 all kinds of reasons why the Commission was asked to do
23 this inquiry at this particular point in time and why
24 there was not concern about the use of market power if
25 there was any use of it in the past, but it does pose an
26 interesting question; is the current concern about the
27 potential cost to New Zealand of use of market power and
28 transmission and distribution, does it relate to concerns
29 that it may impede exploration and a resolution of the
30 very supply and demand conditions that we see? It seems
31 to me that that is part of the reason that this inquiry

1 was sought by the Government at this time.

2 **MR JAMES:** Yeah, I think that's right. It's a genuine, valid
3 question, is this an issue? We think we'll be able to
4 demonstrate pretty capably that it is the right question
5 to ask but the answer is no, it's not an issue. The
6 pipeline transportation services are not the principal
7 contributor to the lack of development of the gas
8 industry.

9 **CHAIR:** But you would accept that even if it's a contributor,
10 it could have a significant social cost?

11 **MR JAMES:** Yes, but I'd argue it's not a contributor. But
12 yes, I do accept as a position, yeah absolutely.

13 If we then move to this period beyond about what we
14 assess to be 2007, and in 2007 the Maui Field will have
15 effectively gone. Pohokura gas will be delivered into the
16 market. All of the current fields under development will
17 be producing and will be in the post Maui era.

18 Whether there is yet then sufficient exploration to
19 create a confidence about new gas reserves coming to
20 market is an open question. I talked about increased
21 supply on market power and that's one of the features that
22 we have observed that really started, in our view, with
23 the divestment of the Fletcher Challenge Energy assets to
24 Shell.

25 There has now been an increasing concentration
26 upstream and therefore, in our view, the ability now for
27 producers to ration gas to market and to more effectively
28 balance supply with demand. In terms of a sort of
29 national resource that might be a good thing, that means
30 that things will be eked out over the maximum period of
31 time, arguably, but it also means that wellhead prices

1 have moved pretty quickly to the new level. That's been
2 demonstrated in the past couple of years.

3 A shortened reserves horizon. We now have nothing
4 like the sort of reserves horizon that you see in other
5 developed comparable economies. We've gone from the
6 sublime -- we've actually gone from the ridiculous to the
7 sublime. For 30 years we had more gas than we could ever
8 possibly use and forecasts there were meaningless because
9 there was simply so much of it, to a position today where
10 we don't even have, you know, prudently speaking, we don't
11 have confidence that there's enough supply after about
12 2010, which is, in terms of gas markets, a pretty short
13 time away.

14 There is a significant risk now of insufficient
15 indigenous gas, despite the fact that New Zealand is
16 highly prospective. I don't think there is a more
17 prospective region than the Taranaki basin in this part of
18 the southern hemisphere. Given the fact that there are
19 now no significant disincentives in terms of taxation
20 regimes, royalties, that sort of thing, this is a stable
21 political environment, a nice place to live and work. You
22 can't get over the fact, though, that it's a small economy
23 on the periphery of the world, it's a long long way away
24 for people in the gas exploration business at any sort of
25 size and scale.

26 So the super majors are in the Gulf of Mexico or in
27 the Middle East and places like that. With the decline
28 now of Shell's involvement in exploration in New Zealand,
29 our view is that no super major will ever return to the
30 New Zealand market, it simply isn't big enough and doesn't
31 offer enough scale. Therefore, New Zealand needs to

1 attract what we'd term regional majors and that's the
2 Origin's, Santos's, people like that, people that are
3 active in the Australian market who would include, embrace
4 New Zealand in that sort of Australasian market.

5 To date we've seen the entry of Origin, with Kupe;
6 haven't yet seen the entry of any other of those regional
7 majors, so most gas exploration today in New Zealand is
8 being done by junior explorers, people that are typically
9 undercapitalised. While they have the skills and
10 experience to develop for gas, they are substantially
11 undercapitalised.

12 We see a situation now when we look forward, the high
13 cost base of alternatives. Alternatives to gas are not
14 sensibly wind and things like that, or hydro. New Zealand
15 now uses as much hydro as it's likely to use. Wind cannot
16 be built, or any of the other renewables cannot be built
17 or developed in sufficient volumes to accommodate
18 New Zealand's needs for power generation.

19 Gas is the fuel that offers the greatest utility and
20 energy intensive, intensity, if you like, to do that, and
21 therefore the realistic alternative to natural gas in the
22 future is LNG. Very high cost base and it would recess
23 the economy, and therefore there's a significant risk then
24 in our view to the New Zealand economy of industrial
25 disinvestment; that's people pulling up stumps in
26 New Zealand and moving off-shore and the loss of key
27 markets for New Zealand producers.

28 For example, most of the energy used by Fonterra is
29 used to convert milk to milk powder. Milk powder is then
30 exported and in various places around the world it's
31 reconstituted into local products. If that business

1 became unsustainable because the energy required to do it
2 became prohibitively expensive, it's likely then that that
3 business model could change fundamentally. If New Zealand
4 was in a situation where it was no longer able to export
5 milk powder, for example, it may need to revert to value-
6 added production in New Zealand. That would be a whole
7 lot less energy intensive, but it would also potentially
8 put at risk some of those key markets for New Zealand
9 production, of milk products for example.

10 The consequence of all that is the significant
11 likelihood of reduced economic growth from this uncertain
12 energy future.

13 **MR STEVENS:** Where do you see coal sitting in that equation?
14 You mentioned LNG as a realistic alternative,
15 New Zealand's got a couple of hundred years worth of coal
16 supply; where do you see that sitting?

17 **MR JAMES:** From a pure energy perspective we see coal as a
18 reasonable robust alternative but it's still in that high
19 cost base area. The delivered economic and social cost of
20 coal is competitive to LNG. It is not a competitor today
21 for indigenous gas, even for post Maui gas, given the
22 carbon tax and other constraints, the transportation, the
23 dealing with coal crushing and transport and things like
24 that. From an end-use perspective, from a delivered
25 energy perspective it's quite a high cost fuel. So it's
26 here in abundance but it's at the higher cost end and it's
27 at a very high social cost end as well, particularly given
28 New Zealand's commitment to Kyoto and those sorts of
29 things.

30 All of those trends affect NGC. When we look forward,
31 this is the forecast that we've given our board, this is

1 our market forecast. We haven't widely publicised this in
2 the markets in New Zealand yet because this is not the
3 sort of information that we would routinely put out. But
4 certainly this is the view that we've given our board.
5 This is our forward view of our gas transmission
6 throughput and it reflects exactly what I've just talked
7 about. It reflects the rapid growth in throughput up
8 until about the end of 2001, mostly built on power station
9 and petrochemicals development.

10 This transition period that we're in at the moment,
11 unstable period with demand falling off, conversion, for
12 example, of New Plymouth Power Station to liquids, those
13 sorts of factors, reduction in industrial demand through
14 this period, through uncertainty and other things, and
15 then a pretty flat view forward. When we look forward
16 from today out in the future, in real terms we see our
17 transmission throughput declining through all of the
18 foreseeable future, simply because it's a leading
19 indicator of what's happening in the gas market.

20 I think the point, the substantial point that I want
21 to make here is that it's difficult I think, in your
22 situation, not to take past performance and extrapolate it
23 forward, that's the natural inclination to do. We would
24 argue strongly that past performance in this case is not a
25 reliable indicator of future performance and that future
26 performance for these businesses is pretty easy to be
27 pessimistic about.

28 **CHAIR:** When you say it's not possible to extrapolate past
29 performance forward, I think the Commission has accepted
30 these forecasts in its analysis; so what is it exactly
31 you're saying we can't do, because it must not be taking

1 this profile which I believe we have accepted.

2 **MR JAMES:** It isn't clear to me and I'm not suggesting that
3 you haven't made it clear, but it isn't clear to me your
4 treatment of our forecast forward. I'm not sure when I
5 take advice on what's in all the material, exactly how
6 you're viewing, if you like, this sort of step change in
7 prospects.

8 So I guess at this stage I'm raising the standard
9 warning flag, please don't extrapolate past performance.
10 If you haven't done that, I'm encouraged to hear that, but
11 that's all. This is simply a case where, you know, there
12 are some markets where past performance is a good
13 indicator of future performance. We're simply arguing for
14 the record that this isn't the case with the gas
15 transportation services market in New Zealand.

16 **CHAIR:** How long have you been projecting that profile?

17 **MR JAMES:** We did a comprehensive strategy review with our
18 board last December. We've been, like everybody else in
19 the gas industry, uncertain these past couple of years
20 about where things would end up, and very heavily involved
21 in Maui negotiations and things like that. So it's been
22 pretty easy to just be focused on what's happening around
23 us today.

24 **CHAIR:** Isn't it the case that that uncertainty was about the
25 timing of when the gas supply would shorten, not whether
26 it would? Isn't that a fair statement, it was a question
27 of when Maui was going to be depleted, not whether we
28 would find ourselves in this position? I mean that's been
29 known for a good number of years. I know from my
30 experience on the Commission we look at these markets all
31 the time and we've changed the profile, but we haven't

1 actually changed -- I mean we've changed the timing of the
2 profile but the actual profile is pretty much what we
3 anticipated, for some number of years.

4 **MR JAMES:** That's true. There has been a sting in the Maui
5 tail, though. What's been demonstrated now is that gas
6 industry participants, gas market participants haven't
7 responded, if you like. We've really needed to wait the
8 end of Maui and have it absolutely clear it had ended
9 before people start the normal behaviour.

10 In other economies with a mix of gas resources what is
11 you typically see is people taking a prospective punt and
12 going and investing in new gas developments before the old
13 one runs out. This has been an elongated process, the
14 redetermination process itself has taken 15 months from
15 the date of the redetermination announcement until the
16 contractual arrangements were resolved. During that time
17 there hasn't been any substantial exploration.

18 So we've now got sort of an interregnum, a period of
19 a couple of years maybe that we think may stretch to three
20 or four, where there really hasn't been the development
21 activity required to give us a sustainable future. So in
22 our view in any event if there isn't a substantial gas
23 find in the next couple of years then this market will
24 change and will change forever because nobody will come,
25 you know, if this is an LNG cost base future people will
26 sign 20, 25 year contracts in order to support the
27 investment in that. Once that happens that window is
28 closed, we don't think people will come back here and
29 drill and therefore rekindle an indigenous gas market. So
30 we could quite easily go from one prolonged period of low
31 cost stable Maui gas to another period of high cost stable

1 LNG with a difficult transition between.

2 So, yes, we have known that Maui was coming to an end.
3 What hasn't happened, and the evidence is there for that,
4 is that people haven't anticipated that by a couple of
5 years and created a seamless change to a new indigenous
6 gas market. That hasn't occurred.

7 **CHAIR:** I just wanted to go back to that graph that you put up
8 and I'd just like to ask you; you say you've done a
9 comprehensive review in December of, what was it, 2003?

10 **MR JAMES:** 2003.

11 **CHAIR:** It's a question I wanted to ask, thought that I would
12 ask you when I had the opportunity, and that is I'm
13 interested in your view on how the company approached its
14 pricing strategy in that pre-2003 review period as
15 compared with how you've approached it since then. So
16 what difference did that review make to the strategies
17 you've taken as Chief Executive in terms of pricing
18 strategies.

19 **MR JAMES:** I think two things have come out of that. I think
20 I would argue that our pricing strategy hasn't changed in
21 that regard. In pricing transmission services what we're
22 looking at is a fair return for investors, so that sort of
23 sets the quantum, if you like, of revenue achieved from
24 this business.

25 We focus then on management of our costs, and I'll
26 come back and talk about costs in a moment. Then the
27 third element of that is then working out what's changed
28 in the market in terms of the nature, the componentry of
29 prices, because pricing structure is as much an issue, in
30 my view, for New Zealand consumers as is the quantum.

31 Has anything changed substantially since the review in

1 2003? No, there was already an element, if you like, in
2 our cost base. We had divested our electricity generation
3 assets early in 2003. As a consequence of which we were
4 then left with a share of corporate overhead that had
5 previously been allocated to our generation business. If
6 we did nothing about that, that would simply have created
7 a greater burden on the remaining businesses. So it's a
8 reverse portfolio effect.

9 So we've worked hard to reduce our corporate costs by
10 that amount of money and more so that we're not imposing
11 that sort of cost burden on consumers at the end of the
12 day through the portfolio of businesses that we own.

13 **CHAIR:** So if you look forward and you saw that you had
14 stagnant demand and you were concerned about that, and I
15 assume your proposition is that that has increased the
16 constraints on your behaviour.

17 **MR JAMES:** Yep.

18 **CHAIR:** But it didn't have any impact in terms of what you
19 thought you could do or what you ought to do in terms of
20 your pricing, in other words your proposition is there was
21 an increase in constraint brought about by market
22 circumstances but it had no impact on your pricing
23 strategy.

24 **MR JAMES:** No, I wouldn't say it had no impact.

25 **CHAIR:** How did it constrain what you could do in terms of
26 your pricing strategy going forward? What material
27 difference -- and I'm happy to hear from your staff, but
28 I'm interested in your view because we often find, talking
29 to the executives, that it's quite helpful to understand
30 the nature of the business.

31 **MR JAMES:** I think the constraint that we observe now, and I

1 say so later in the presentation, so it's not just
2 something that I thought of; for all of the foreseeable
3 future we now see this business, our transmission business
4 as more effectively constrained by market forces than by
5 any other force. We're now clearly in the zone where
6 actions we take with respect to pricing will have an
7 effect, if you like, in terms of volume and throughput and
8 things like that. So I think our view, what happened
9 since we identified or what's been emerging as the issue
10 is we've reached the limits of elasticity in our view.

11 **CHAIR:** You stated, I believe, that you have an overall return
12 that you seek for your shareholders and that that view on
13 what that return is hasn't changed. So you're able to
14 maintain that return through, I suspect, through this
15 period, is that your --

16 **MR JAMES:** No, I think we'll demonstrate that we're not able
17 to maintain that return. We seek to, but there's a period
18 ahead of us of significant difficulty in maintaining that
19 return.

20 **CHAIR:** But that hasn't changed the overall outcome you expect
21 to get in terms of your pricing structure.

22 **MR JAMES:** We've now reached the point where, and again in my
23 view what we're now doing is balancing throughput, returns
24 to investors and price s to customers. So, we've now
25 reached a point where I think that balance is alive.
26 There would have been a point in our history going back
27 when price increases would have been accompanied actually
28 by increases in throughput because the market was growing
29 and NGC's pricing was not constraining the market.

30 I think we've probably gone now to the other side of
31 the coin. I'm concerned about, when I look forward at

1 stagnant demand and maybe demand that's slightly declining
2 over the period, we still have substantial cost pressures
3 in the business, the cost of wages is increasing with
4 inflation, those sorts of things. This is a conundrum.
5 So from the other perspective --

6 **CHAIR:** Can I just -- I didn't want to preclude your colleague
7 from adding to that, if you were going to go on, so it's
8 up to you if you'd like.

9 **MR JAMES:** I'd be happy to.

10 **MR WILSON:** Good morning Chair and Commissioners. Just a few
11 things that I'd add to Phil's comments. One is that to me
12 the most significant change that's happened over this
13 period, and I'm talking about over the last year or so, is
14 an increase in the gas price, the commodity price, that I
15 don't believe anyone in the industry anticipated. It more
16 than doubled over that period. I don't think anyone would
17 have anticipated that quantum of change or that it would
18 happen so rapidly.

19 I don't think there's any doubt whatsoever that when
20 the price moves that significantly there will be a demand
21 reaction. So demand is going to decline. It will take a
22 while to happen and that's just because, as Phil has said,
23 there are long-term investments in the gas industrial, so
24 customers do take a while to react to that kind of change
25 because it is inevitable. To suggest otherwise is to deny
26 the laws of economics.

27 **CHAIR:** So the elasticity has become greater?

28 **MR WILSON:** There has to be elasticity in the market.

29 **CHAIR:** Which has flowed through to your services?

30 **MR WILSON:** Yeah. How will that affect our business? I do
31 come into this in my discussion, but my view is that what

1 you will see happening, and what is already happening is
2 that more and more customers are approaching us asking for
3 special prices. So the delivered price of gas is becoming
4 uneconomic to many customers, or alternatives are becoming
5 realistic. So they're looking for a special deal on their
6 price. Now we have the choice either of cutting some
7 extra special deals or facing the fact that we're going to
8 be losing demand, and what we've seen over the past year
9 or so is that we are engaging in more of this negotiation
10 and that will increase.

11 What the eventual outcome of is does not necessarily
12 decrease on our return. More likely it's an effect on our
13 asset base and I will get into this in more detail when I
14 give my presentation, but you'll see when we look at our
15 ODV that there's a significant amount of our asset, about
16 17 percent in fact, that's optimised out of the system and
17 there's a significant amount of asset value that is
18 reduced because of economic value write-downs. In other
19 words the revenue from the market can't support the
20 valuation that we've got and I think it's inevitable that
21 you will see that position shifting over time, recognising
22 the change in the market.

23 **MS BATES:** I just wanted to ask you a bit about the breakdown
24 of your market, you've got some initial, in your
25 submissions, 28 percent residential, 55 percent industrial
26 and 17 percent commercial. Is that still where it's at?

27 **MR WILSON:** That is correct for the network business. Of
28 course we have a transmission business, the high pressure
29 side of our business, and a network business.

30 **MS BATES:** So what's the breakdown for the transmission side?

31 **MR WILSON:** The transmission business of course supplies high

1 pressure gas to the other network businesses in
2 New Zealand, so Vector's market, Powerco's market,
3 Wanganui Gas's market, and actually it hasn't changed
4 greatly over the last couple of years. Into the
5 reticulated market, there is still approximately 38
6 petajoules a year.

7 What has changed greatly is the amount of gas going
8 into power generation. For example, if you look at
9 Auckland, the reticulated market in Auckland is around
10 about 10 petajoules, but what's happened since the
11 Southdown Power Station and more recently the Otahuhu
12 Power Station have been built is that that's increased
13 from 10 petajoules, another 8 petajoules to supply
14 Southdown, another 22 petajoules to supply Otahuhu, so
15 we've moved from 10 up to 40. But the underlying market,
16 the reticulated market if you like, hasn't changed
17 dramatically over the past few years.

18 **MS BATES:** So if you look at your industrial customers, you'd
19 include those two power stations?

20 **MR WILSON:** No, I wouldn't consider those to be industrial
21 customers. I would consider them to be power generation.

22 **MS BATES:** I'm just not quite sure -- I'm trying to get a
23 profile of your customer base, so how would you describe
24 it?

25 **MR WILSON:** Right, okay. Well I'm talking about the quantity
26 of gas transported on the transmission system now and
27 that's different from the quantity on our networks because
28 our networks are only a small part of the market. On the
29 transmission system in aggregate there's about 100
30 petajoules transported each year. Of that 100 petajoules
31 about 40, say, is transported into the reticulated market,

1 so that's gas going on into distribution networks for sale
2 to residential, commercial, industrial. Almost all the
3 rest of the gas is going to major users directly off the
4 transmission system, or power generation.

5 **MS BATES:** Okay, thanks, that's helpful to me.

6 **MR JAMES:** I'm just aware of the time, Chair, so I'll push on.
7 I'll move through this fairly quickly because I've made
8 some of these points. We argue that gas is different from
9 electricity and telecommunications because importantly
10 it's a discretionary product. This is a product that
11 people choose at the margins. Gas is different in
12 New Zealand to other gas markets because of its low
13 penetration and the consequent sensitivity to market
14 change and I'll show you a chart in a moment. As I just
15 said, for all of the foreseeable future we see that gas
16 will be constrained in New Zealand by market forces, by
17 competitive and other forces.

18 If I can move on, this is a picture, this is not a
19 chart, simply a representation, that we presented to an
20 infrastructure conference here in Wellington at the end of
21 2002. These numbers have changed a little, but not so
22 much that we would lose perspective. So what you see on
23 this chart then is down the left-hand axis average demand
24 in gigajoules per annum and across the bottom customer
25 density, customers per kilometre. The intersection of
26 those two things are then shown by the dots.

27 You see New Zealand at the lower end of the scale
28 here, about 24 gigajoules per customer on average with a
29 customer density utilisation factor, if you like, of a
30 little under 20 customers per kilometre, about 18. The
31 New South Wales market, the average Australian market, the

1 Victorian market right up there and then the North
2 American market on average.

3 We then draw a line of best fit to connect all those
4 things. This is arguably a sort of a utilisation curve.

5 **CHAIR:** This is for the retail is it?

6 **MR JAMES:** Reticulated market. So all of the network markets
7 if you like. This is a common way of describing, for
8 downstream gas markets, of describing network economics
9 and comparing markets. So, what we then did was put an
10 inverse price scale on the right-hand side, just to see
11 whether there was any correlation then between network
12 utilisation and final prices and surprisingly there's a
13 high degree of correlation there now. In the New Zealand
14 case since 2002 wellhead prices have increased by around
15 \$3 a gigajoule, maybe a little bit more. Other prices
16 haven't moved much at all in that time.

17 So in New Zealand's case that blue dot has now fallen
18 below the line, not by a significant amount given the
19 differences in other jurisdictions, but it's an
20 interesting correlation that I think demonstrates, or
21 encapsulates the New Zealand issue in a single picture.
22 That is that we're at the very small end. This is a small
23 market with dispersed networks spread across the
24 North Island, low average consumption.

25 Remember for all of that Maui period, even though gas
26 was cheap, so was electricity because gas was then setting
27 electricity prices in the market, it was the marginal
28 fuel. So the price competitiveness between New Zealand
29 gas and New Zealand electricity, the differences have been
30 slight; certainly not enough to drive terrific development
31 of gas markets.

1 Whereas, for example, at the top of the scale in the
2 US, North America, the relativity between delivered gas
3 prices and delivered electricity prices is anywhere
4 between 2 to 1 and 4 to 1. In other words gas is half to
5 a quarter of the competitive price of delivered
6 electricity. In those markets you then see the upward
7 spiral effect, you see people connecting to the gas
8 networks in greater numbers and using gas because it's so
9 competitive and that feeds off itself.

10 Earlier on I said that I'd worked in the Canberra
11 Australia market. Canberra was reticulated with natural
12 gas beginning in 1981, reticulation concluded in about
13 1996. Today, the Canberra market sits up above the
14 Victorian market and just below the North American market.
15 So consumption there is over 70 gigajoules power customer,
16 there are now something like 60,000 gas consumers. So in
17 a city smaller than Wellington, total residential gas
18 consumption in Canberra is nearing 80 percent of what it
19 is in the whole of New Zealand. With a single contiguous
20 network, the network economics are just phenomenal.

21 So again this is a very telling slide in our view
22 because it really puts New Zealand at the very low end, at
23 the fragile end of world gas markets.

24 Moving on then; regulation in our view should reflect
25 the underlying economics of course and the commercial
26 reality. In our view the arguments put forward in the
27 draft don't, in our view, reflect what is our view of the
28 commercial reality of this industry. Evidence of excess
29 profits is open to significant debate and as Steve said in
30 his introduction, on four or five key issues in the draft
31 any one of those, were it to be our view rather than the

1 Commission's view, would in my understanding completely
2 negate the excess profits. So that seems to me now to be
3 that we're in an area where we need to be absolutely
4 certain that all of the contentions proposed are in fact
5 the way that they're proposed, because if any one of those
6 things, if one out of four can change this argument
7 fundamentally then in our view that therefore is open to
8 significant debate.

9 Today gas service providers are constrained by a
10 number of other forces in the market, forces that weren't
11 there in the past. Inter-fuel competition, the gas prices
12 have increased rapidly; the inter-fuel competition between
13 gas and electricity for example, while it was tight in the
14 Maui era is today even tighter. So there are genuine
15 constraints from the marketplace.

16 There are now another raft of constraints on the gas
17 industry as well, behavioural and other constraints
18 reflected in gas industry governance, the Gas and
19 Electricity Industry's Bill requires the establishment of
20 a regulatory model, a behavioural regulatory model, an
21 operational regulatory model over the industry which the
22 industry is now in the process of implementing.

23 Unsurprisingly the gas industry model is different
24 from the electricity model. The gas industry has argued
25 for a co-regulatory model, the Minister has accepted that
26 because the Minister has accepted that aspects of
27 New Zealand's gas industry are quite different from
28 New Zealand's electricity industry.

29 The final point then is one may be tempted to make a
30 regulatory comparison with Australia. Regulation in
31 Australia is, in my view, different and it has

1 historically been different. Perhaps it's more heavy-
2 handed, that may be a description that people use. I note
3 with interest, though, that only a year ago the
4 Productivity Commission in Australia has expressed a
5 caution about over-regulation, particularly of
6 infrastructure investments on the basis that future
7 consumers may not be well served by, if there is a lack of
8 infrastructure development which is fundamental to the
9 development of the Australian economy; I'd argue that same
10 issues apply here and because of the size of New Zealand's
11 economy are, in my view, even more important.

12 **CHAIR:** Can I just interrupt you for a minute on that last
13 slide. You talk about the constraint that comes from the
14 industry, the proposed industry governance regime and I
15 think it's fair to say that some aspects of that regime
16 are pro-competitive and I can see that might be the case.
17 But what I'm not sure is what is it about that regime that
18 puts constraint on NGC in terms of its pricing behaviour,
19 what is it --

20 **MR JAMES:** In terms of its sorry?

21 **CHAIR:** Pricing behaviour.

22 **MR JAMES:** My view is that the constraints that co-regulation
23 or the gas industry company, call it what you will, will
24 impose on NGC, that body will be charged with making
25 recommendations around regulations, or recommending
26 regulations that will then be given the force of law by
27 the Minister.

28 **CHAIR:** Those regulations have nothing to do with -- anything
29 to do with prices, revenues or any component of prices and
30 revenues.

31 **MR JAMES:** Well, I think, Chair, with respect, our view of our

1 business is that it's not all about prices.

2 **CHAIR:** No, but I'm asking you, is there anything in the
3 proposed governance regime that constrains prices and
4 revenues in any way.

5 **MR JAMES:** No, not directly, no.

6 **CHAIR:** And indirectly, how would it indirectly constrain?

7 **MR JAMES:** Because they're behavioural. What will emerge from
8 that is a code, for example, for access to pipelines, a
9 code for access to distribution systems, agreed
10 arrangements or approved arrangements for wholesale
11 markets and those sorts of things.

12 **CHAIR:** But that doesn't in any way constrain the price for
13 that access, does it?

14 **MR JAMES:** No, I accept that it's not targeted at prices, but
15 from our perspective it's a constraint on our business, it
16 constrains us from perhaps developing our access
17 arrangements in one way when the consensus of the industry
18 is that they be developed another way. That was the point
19 that I was making.

20 **CHAIR:** I don't want you to mistake what I said, the
21 Commission has been always reasonably supportive of those
22 sorts of governance arrangements, we don't have a
23 difficulty with it. All I'm questioning is, does it go to
24 the heart of the matters before us here today?

25 **MR JAMES:** Well, I guess that -- the thing that I would say,
26 and we haven't seen the shape of those yet, so I'm
27 forecasting what they might look like; but to the extent
28 that the industry operates under a single scheme, a single
29 access arrangement, a single market scheme and that sort
30 of thing, it makes information much more transparent, it
31 gives people an opportunity to look with far greater

1 clarity and compare the performance of one business to
2 another. So in my view that will be an indirect
3 constraint on prices in the future. I can't argue that
4 that's the principle on which it's established, but that's
5 my view of what will actually happen in future.

6 I'd like to talk for just a moment about future
7 consumers because again it seems to me that a trade-off
8 that Regulators need to make is to what extent do we
9 reward current consumers, potentially at the expense of
10 future consumers. Without investment the gas industry in
11 New Zealand will not grow. We believe strongly that net
12 public benefits is the right test for these sorts of
13 businesses. It makes no sense to have a regulatory
14 arrangement which qualifies on one criteria but actually
15 doesn't deliver benefits sufficient to outweigh its cost.
16 That seems to be wrong headed.

17 So we agree that the net public benefits is the right
18 test but the issue that's been raised about foreign
19 investment, particularly with respect to NGC's business is
20 disappointing and we think that that needs greater
21 clarity. So we would argue that a net public benefits
22 test should include the benefits to the public of foreign
23 investment.

24 Just as an aside, interesting that on the day that the
25 draft was announced and I think, with respect, it created
26 some uncertainty around foreign investment, NGC's share
27 price fell 25 cents that day which would indicate that, as
28 I make this point, the investment climate is always
29 volatile. So investors are not necessarily on any given
30 day fully informed, they form their views from a whole
31 range of things.

1 Regulation can alter the balance of interest between
2 current and future consumers, that's the point --

3 **CHAIR:** I'll just stop you before you go on. I take it from
4 the comment that the net public benefits test is the right
5 test means that you don't believe the net acquirers test
6 is the right test?

7 **MR JAMES:** No, we don't.

8 **CHAIR:** Why do you think transfers from producers to consumers
9 don't matter for the purposes of looking at a natural
10 monopoly?

11 **MR JAMES:** I didn't say that they didn't matter and I wouldn't
12 argue that they don't matter. But if there is a test to
13 be applied here, then I think the broad -- the best test
14 is this net public benefits test, that's our view,
15 because --

16 **CHAIR:** It doesn't take account of transfers at all.

17 **MR JAMES:** I'm arguing that the current net benefits test is
18 not adequate to do that, but we would argue that a net
19 public benefits test is a better test because it applies
20 elements of economic efficiency apart from anything else.
21 It would be a --

22 **CHAIR:** It's the only thing that applies.

23 **MR JAMES:** Yeah.

24 **CHAIR:** So implicitly by saying that you're saying that
25 monopoly rents are not a matter that should be of concern
26 in the inquiry.

27 **MR JAMES:** No, but equally -- no, I'm not trying to argue
28 that.

29 **CHAIR:** But the test that you're suggesting is appropriate
30 gives no weight to that. If you were to give weight to
31 that and treat foreign investment in the way that I think

1 you're suggesting, it collapses to the net acquirers test.
2 So I just want to be very clear on what your submission is
3 here. Are potential rents something the Commission should
4 or should not be concerned with?

5 **MR JAMES:** I don't think that I should have a view on whether
6 or not the Commission should or should not be concerned
7 with rents. Of course the Commission is concerned with
8 rents and I think that's reasonable to do. What I have
9 said, though, is that we shouldn't stop there, because if
10 we simply get a regulatory test that says we've
11 established that there are rents, ergo you are regulated,
12 then we pay no attention whatsoever to the cost to the
13 economy of that regulation.

14 **CHAIR:** Let me put this question to you. If we found very
15 large rents, very large, not small, not insignificant, but
16 very large, what you would accept as very large rents,
17 whatever that might be, and the net result of that when
18 you combined it with the proper consideration of dynamic
19 efficiency and other forms of efficiency, would you accept
20 then that that would be a situation where control may be
21 justified?

22 **MR JAMES:** That's a hypothetical, Chair.

23 **CHAIR:** Yes.

24 **MR JAMES:** I think under that hypothetical it would be
25 patently ridiculous to argue that it shouldn't apply. I'm
26 arguing a net public benefit in this context, because in
27 this context we've argued that there are no excess
28 profits, that there are no rents, and therefore in this
29 context that's a test that -- if in this case we end up
30 finding that there is a small amount of excess profit, if
31 we can't reconcile the differences of view that we have,

1 and that that small amount of excess profits is then
2 outweighed by the cost of regulation to the public, I'm
3 suggesting that in that circumstance, that would be an
4 unfortunate outcome, that would be --

5 **CHAIR:** The net acquirers test takes account of that. I just
6 wanted to clarify one thing; that is the Commission
7 believes the test, and the Commerce Act is the net
8 acquirers test, that is the test this Commission is
9 required to base its recommendation on. That test does
10 take account of both the efficiency arguments, the cost of
11 regulation, both direct and indirect, but also transfers,
12 so any rents that we find. And I accept your proposition
13 that you think those rents are non-existent and that may
14 be the outcome, I've got a completely open mind to that.
15 And in the net acquirers test this issue about foreign
16 investment does not come up. This net public benefit test
17 is a test that is normally done in an authorisation
18 environment. It is something we have looked at as we were
19 instructed by the Minister to do so and to provide that
20 information.

21 In that test we have court precedence about the
22 treatment of foreign investment where -- not foreign
23 investment, but how you treat any rents that might go off-
24 shore, and so we've done the analysis because we were
25 directed to do so. But as you will be aware we have
26 certainly cautioned the Government about that there would
27 be further costs associated with basing a decision on that
28 because the treatment of foreign transfers that go off-
29 shore, there's a different effect on different companies,
30 just purely because of their ownership structure.

31 So I just wanted it to be very clear that that is the

1 basis on which the Commission did the analysis, but the
2 Commission is very clear that its recommendation will be
3 based on a net acquirers test.

4 To sum that up I'm taking it that you don't have
5 difficulty with that but your proposition is there are no
6 rents being earned and therefore that part of it drops
7 out.

8 **MR JAMES:** I don't have a difficulty with it, no.

9 I should conclude. In concluding then, if I could
10 summarise the points that I've attempted to make. The
11 New Zealand gas industry is small and given the position
12 it finds itself in today and looking forward faces a
13 number of very significant challenges.

14 The second point is that any form of control therefore
15 would, in our view, require robust evidence of excess
16 returns. This is such an important issue for this
17 industry that it's absolutely vital and I know that we
18 agree with you there that there be robust evidence of
19 excess returns before a recommendation for control is
20 given.

21 And last point, that the Commission needs to be
22 certain of the benefits of control, particularly to future
23 consumers. Thank you.

24 **CHAIR:** Thank you very much for that Mr James. I'll just see
25 if my colleagues have questions before I turn to our
26 external experts.

27 **DR LAWRENCE:** I'd just like to clarify some things on the
28 graph you had up, the one titled "utilisation is a key
29 issue". Firstly I just want to clarify what "average
30 demand per annum" you have on that graph is; is that just
31 residential average demand or is that total average demand

1 for your distribution component?

2 **MR JAMES:** 24 gigajoules, residential. The purpose of that
3 was to demonstrate differences in network economics, and
4 what accompanied that -- it's no longer relevant because
5 the prices have changed -- but what accompanied that was a
6 table and the heading of that table was at first glance
7 residential prices appear high in New Zealand and they do.
8 If looked at from a final price point of view on the face
9 of it New Zealand prices are very high. We sought to
10 explain some of that and suggest that the reticulation
11 component, the distribution component which was the larger
12 single component was being driven by utilisation issues.

13 **DR LAWRENCE:** The message I take from that graph is that
14 New Zealand and the US are really at very opposite ends of
15 the spectrum. So would it be fair to say that you'd need
16 to be pretty cautious of drawing implications about the
17 New Zealand system from US information?

18 **MR JAMES:** Yes, I certainly would. I wouldn't -- one of the
19 difficulties in this business, and I'm sure that this is
20 something that happens all the time with respect to
21 inquiries, is that it's very difficult to draw concrete
22 conclusions from anything that happens anywhere else. The
23 gas industry is no different. We've -- and I'm talking
24 about in my past, I've been involved in pretty extensive
25 benchmarking exercises using FERC data and things like
26 that, full of difficulty, full of inconsistencies and
27 different numerators and denominators and all sorts of
28 things. So one attempts to draw from that trends and
29 directions rather than concrete conclusions.

30 **DR LAWRENCE:** Would it be fair to say that a large part of the
31 difference there that you observe is due to particularly

1 the climatic effects and probably lifestyle effects and so
2 forth in the US relative to New Zealand?

3 **MR JAMES:** Well, I guess what I was attempting to draw from
4 that is regardless of what things drive circumstances in
5 the first place. We could argue that New Zealand's
6 culture around energy is different, its climate isn't
7 different from New South Wales for example.

8 **DR LAWRENCE:** No, sorry, I was talking about relative to the
9 US.

10 **MR JAMES:** Well, the US, particularly markets like Northern
11 Illinois and things like that are under snow for seven
12 months of the year so certainly their climate is very
13 different. It could be argued that their energy
14 consumption culture is different as well. That isn't the
15 point, I wasn't trying to explain why, I was trying to
16 explain what, you know, what actually happens.

17 What actually happens is when you get the function of
18 average demand and the price that comes from that, the
19 three things are interconnected. High customer density,
20 high average consumption, low prices relative to
21 competition gives you that snowball effect, things just
22 get better and better, it's the network effect. We're at
23 the other end of the spectrum, we haven't latched on to,
24 for whatever reason, that snowball effect. That's not
25 happening in the New Zealand markets and in my view it's
26 unlikely to happen ever, we simply haven't gained the
27 critical mass.

28 **DR LAWRENCE:** Surely penetration is increasing in New Zealand
29 over time, I mean it's an ongoing process. It's fair to
30 say that you're certainly a less mature market than the US
31 and you may never get to the utilisation levels and so

1 forth given the climatic differences, but certainly it
2 would be -- you would have to agree that the New Zealand
3 market is not completely static in that respect.

4 **MR JAMES:** No, it's not completely static but at the rate of
5 current market growth I think it's unlikely that we'll
6 ever reach -- if I go back only a decade or 15 years in
7 New south Wales, the New South Wales market or Sydney
8 market average consumption was 19 and a half gigajoules or
9 something like that. What's happened in the Sydney
10 market, for example, through this sort of 15 year period,
11 is there's been a remarkable change in the competitiveness
12 of gas and the attraction of high consumption gas
13 appliances.

14 So central heating has taken off like never before in
15 the New South Wales market, as have instantaneous water
16 heaters, continuous flow water heaters those high
17 consumption devices. Today Sydney average market
18 consumption is more than 27 gigajoules, there's been a
19 phenomenal change in that time. Consequently the real
20 price of gas has been declining in the Sydney market for
21 all of that period there.

22 Is no such trend going on in New Zealand? No such
23 trend. The cost of primary energy, increases in wellhead
24 prices have wiped out all of the sort of so-called
25 utilisation gains from increasing penetration over this
26 past 15 year period. It's as if the Maui period never
27 existed from a gas network point of view.

28 **MR SELL:** A question for you, Mr James, first of all just a
29 quick follow-up question on the same graph, do you have a
30 similar graph for the whole of the distribution network?
31 Because I guess the question this raises in my mind is

1 from other stats you've provided I think residential's
2 only about 20 percent of your distribution volumes. So I
3 just wondered what this graph would look like if you did
4 it over the whole of your distribution network, I don't
5 know if that's available or not.

6 **MR JAMES:** We haven't done it, but the data is available, so
7 it could be done. Again it was done for a particular
8 reason, it was done to add some other information to a
9 conclusion that was being drawn that residential prices in
10 New Zealand were high because network prices were high and
11 for no other reason.

12 When you start to put industrial customers and -- if
13 you take the whole of the distribution system, for
14 example, then what you introduce is very substantial
15 differences from market to market. If we took -- if we
16 compared the Melbourne market with the New Zealand market,
17 for example, Melbourne is the heartland of industry in
18 Australia so even on distribution networks you'd get a
19 much higher proportion of industrial and commercial
20 demand. I'm not sure that the conclusions you'd reach at
21 the end of that would be worth anything, but the data is
22 available. We haven't ever done the graph.

23 **MR SELL:** I just thought that it may be helpful to the
24 Commission, but I accept that there may well be some
25 caveats or explanations that may well need to go with it.
26 Just a question of clarification; NZ on there, that's the
27 whole of New Zealand, it's not just NGC's network.

28 **MR JAMES:** I don't recall.

29 **DR HODGSON:** I think it was an aggregate of the information
30 disclosure information for network companies but I'm not
31 sure off the top of my head, it was a couple of years ago.

1 **CHAIR:** Can I ask you to clarify that in cross-submissions
2 please.

3 **MR SELL:** The main area of questioning I have I guess is
4 around evidence for the level of competition which you've
5 talked about quite extensively and I guess you talked
6 quite a lot about the quantity side of that, not very much
7 about the price, the relative pricing aspects of that.
8 Even looking at your submission you refer to the ACIL
9 Report which I don't have in front of me here, but there's
10 not a lot of information in your submission on the
11 relative economics of different fuels. There is some
12 information in there which I believe, if you'll excuse me,
13 is in a confidential section of it, although I think the
14 conclusions from that I'm sure are not particularly
15 confidential because they're a matter of public record and
16 it does show that the costs of LPG are considerably
17 greater than reticulated natural gas and that electricity
18 is somewhat greater than the cost of natural gas.

19 I think that data might be a year or two out of date,
20 but I think it would be very helpful to the Commission if
21 you were able to provide some more robust data on that
22 aspect and if you had any comments on that now I think we
23 would be pleased to hear those as well.

24 **MR JAMES:** Only that we've just concluded another review of
25 inter-fuel competitiveness, to the extent that that's not
26 in this submission it can be made available. I only
27 looked at that last Thursday, so that's quite recent. And
28 you're right, those prices have changed somewhat in recent
29 times, so we can make that available.

30 What you'll see from that information is that the
31 advantage that gas had historically is being eroded. We

1 still have price competitiveness between electricity and
2 LPG at residential levels between coal and, well, not with
3 coal, but that's a straight fuel price, but fuel oils and
4 things like that at industrial level. So I'm happy to
5 provide that information. Of course, economics is not
6 what most people participate in when they make decisions
7 about fuel at home or appliance choices and things like
8 that, it's one of the factors, but the whole raft of
9 factors that people take into account.

10 **MR SELL:** Sure. I think that would be helpful.

11 **CHAIR:** Yes, if we can have that in cross-submissions please.
12 Do those other factors tend to make the substitutes more
13 attractive or less attractive, non-price factors?

14 **MR JAMES:** I think if we just took it on price factors natural
15 gas would be a bit less attractive. Price is one thing.
16 There's been two years now of publicity about Maui running
17 out and uncertainty about future fuels. We've seen our
18 rate of network connections slow significantly, it's
19 starting to pick up again now, but they're not at historic
20 levels, so have to assume from that that the level of
21 publicity around Maui gas and concerns that gas will run
22 out are fuelling -- perhaps that's a poor choice of
23 word -- but are responsible for people deciding not to
24 connect to gas who otherwise may have. Maybe they've just
25 delayed that, I don't know, but certainly if we look at
26 the raw numbers and we look at what was happening
27 contemporaneously then there's been a lot of uncertainty
28 in publicity, negative publicity around natural gas.

29 **MR SELL:** I have one other question. That is around the area
30 of elasticity that you quote in your submission. Because
31 there seemed to be some, to me anyway, to be some

1 contradictory statements around that. We've heard, for
2 example, you saying that the market is very competitive at
3 the moment and you're right at the point where, at the
4 price point where there's a lot of action I guess in the
5 market and a lot of price sensitivity.

6 The Commission has used an elasticity of minus 0.3
7 which you've described as low in section 6.1 of your
8 submission, and I think one of the other submissions that
9 we've been provided has come up with an even lower price
10 elasticity than that. You have mentioned in section 6.2
11 of your submission that you believe that in regard to the
12 allocative efficiency calculations there would be only
13 very limited increases in quantity in response to changes
14 in prices. So we seem to be getting some slightly mixed
15 messages there. I wonder if you'd like to just clarify
16 some of those.

17 **DR HODGSON:** I guess what we're talking about here is a
18 distinction between commercial reality and economic
19 paradigms that are used for models such as these. I think
20 it's fair to say that the Commission's model assumes a
21 quantity reaction to price in claiming that if the price
22 was lower there'd be more gas to be transported.

23 The practical reality is that the amount of gas in the
24 country is limited and therefore, if anything, it's not
25 going to be transported on our system if it potentially is
26 put into alternative uses. It could be flowed down, say,
27 the Maui pipeline into Huntly Power Station, it could be
28 used in petrochemicals.

29 So the point here is not really, if you like, the bits
30 in the submission, when we are getting into dealing with
31 the economic paradigm that the Commission is using, the

1 points that Phil and Ian will make are about the
2 commercial reality and, you know, we don't sit around and
3 make economic estimates of elasticity for commercial
4 purposes, people are out there in the market addressing
5 the prices of competing fuels.

6 So I accept the point that the information in the ACIL
7 Report's out of date, it's just not the way we approach
8 business in the practical sense.

9 **MR SELL:** Can I suggest that elasticity applies in both
10 directions I guess and that maybe even if lowering the
11 price didn't lead to an absolute increase in demand for
12 gas if there was a relatively significant elasticity then
13 at least a lower price might lead to less of a decrease in
14 gas quantities than you've been projecting, would you see
15 it acting in that relative way?

16 **DR HODGSON:** To put this in context, if we take the average
17 transmission price which is about \$1 a gigajoule, if you
18 cut that in half, 50 cents, the commodity gas price has
19 gone up in the last couple of years by \$3 to \$4 in some
20 case, end-users are facing. So you're potentially looking
21 at a very insubstantial effect as compared to the effects
22 of the actual energy component and also the effects of
23 uncertainty and there are people out there, and there's an
24 example, which isn't in our submission but it's come
25 through the sales force, of someone actually looking for a
26 heat load and they've got to replace their equipment,
27 they've looked at it, they've said gas is uncertain, we're
28 making an investment for 10 years, we'll put in
29 electricity for a heat source and this is a major, like 80
30 TJ load.

31 So people out there are making decisions for a

1 variety of commercial reasons and it's very hard, if you
2 like, and we accept that it's hard, we're not just sort of
3 having a go at the Commission's model, but it's very
4 difficult to translate the commercial reality that our
5 sales guys are facing and people like Ian are facing into
6 an economic model and we're going to get up -- we try and
7 translate it, but we get to a point where practical
8 reality sort of diverges from economic modeling.

9 **MR SELL:** I accept it can be difficult to get firm estimates
10 of elasticity and you often see quite a range. But I
11 think it would be helpful if you had more to add in your
12 cross-submission to suggest to the Commission what you
13 believe elasticities for the transmission and distribution
14 services you provide might be, or a realistic range for
15 those, if you're able to do that.

16 **DR HODGSON:** We'll endeavour to get some assistance to do
17 that, but -- yeah, we'll try.

18 **CHAIR:** Now we'll turn to Commission staff and I'll start with
19 Dick, did you have any questions Dick, no. Sue, any
20 questions?

21 **MS BEGG:** Just a question on investment. You were predicting
22 declining demand and then flat demand for transmission. I
23 just wondered what the implications of that are for new
24 investment in transmission. Obviously you'll need to
25 maintain the network. I note in your submission you talk
26 about at the distribution level how, even if in the face
27 of flat demand you need new investment because you have
28 customer churn and you're trying to attract new customers
29 as you lose other ones, I just wondered how that works at
30 the transmission level of the market for investment.

31 **MR WILSON:** I think you're quite right to point out that the

1 two situations are different and I do cover some of this
2 in my submission. On the transmission pipeline generally
3 the situation you're facing is that you have a pipeline
4 dedicated to some particular geographic group of
5 customers. Often there's one major customer amongst that
6 group. If, as in some of the examples I'll present to
7 you, you lose that major customer what happens is that you
8 have to look at either optimising down the size of the
9 asset supplying that customer or taking an economic value
10 write-down on the asset so the effect is reflected through
11 the asset valuation.

12 On the networks it's not so straightforward because
13 generally the network of pipes is supplying a range of
14 customers and it's hard to identify often which particular
15 pipeline is delivering gas to that customer. So just
16 technically it's more difficult to make that adjustment,
17 but also there's generally more possibility that you can
18 replace that customer with others.

19 On the transmission system usually the situation
20 you're facing is that the pipeline is dedicated to that
21 geographic area and there isn't much opportunity to
22 substitute and obviously there is no other economic use
23 for the pipeline.

24 **MS BEGG:** So in your projections of flat demand you're talking
25 there that you're losing customers, are you anticipating
26 that you'd invest to capture new customers so that your
27 overall demand is pretty flat as forecast, or are you
28 suggesting there's a net loss so investments -- well
29 you're losing existing users of the pipeline but you're
30 not going to be investing to capture new customers?

31 **MR WILSON:** On the networks, and I cover this, we are still

1 growing quite significantly, but most of that growth is
2 off new reticulation, in other words we're having to
3 continually reinvest in the network to achieve that
4 growth.

5 **MS BEGG:** And on transmission?

6 **MR WILSON:** On transmission the situation is a little bit
7 different. What we're finding in transmission is that
8 significant, substantial investments are driven by a
9 number of changes in the marketplace. Only one of them,
10 for example, being new consumers coming up. I'm going to
11 be talking about, you know, what the effect, for example,
12 of the Maui pipeline becoming open access will be to our
13 transmission system and that will affect demand inevitably
14 on several of our pipelines. So it's hard for me to make
15 an exact parallel to the distribution situation.

16 **MR JAMES:** I'd like to add a comment to that as well and just
17 consider a scenario. We are applying at the moment for a
18 designation for the northern route from Rotowaro to
19 Auckland in anticipation that one day Auckland market
20 demand may grow to the stage where it exceeds the capacity
21 of our current pipeline. So one of the things that I'm
22 considering right now is if investors were faced with a
23 proposition seven, eight, nine years from now that Otahuhu
24 C would be built and therefore that market would exceed
25 the capacity of our northern line, they need to invest in
26 a new line, so in a parallel line in that route, but at
27 the same time they've seen write-downs or revaluation s
28 that come at economic cost to investors over other parts
29 of our system.

30 I'd suggest that's not going to be a straightforward
31 economic decision for investors to make and that's exactly

1 the sort of challenge that this business is faced with
2 now. It's not all about simply taking what we've got
3 forward and looking at every investment at the increment,
4 at the margin. Our investors are going to say okay I can
5 invest there and get a return of whatever, I can get my
6 desired return but at the same time as a business this
7 business is faced with some asset stranding over here or
8 less valuable asset over here, that's the mix. That mix
9 hasn't been previously experienced. It hasn't been
10 experienced in NGC's history to any significant extent.
11 It's very likely that it would be in future. Much more
12 likely in our view that it will be than it won't be.

13 **CHAIR:** I might just interpret here, we do need to take a
14 break.

15 **MR JAMES:** I do apologise.

16 **CHAIR:** No, you've been very good to answer any questions.
17 Can I just ask if there are further questions on Mr James'
18 presentation? **[No comments]**. No. So when we come back
19 from the break we'll move on to the next piece.

20 I'll just give you an updated timetable if I can.
21 It's my intention that we'll reconvene at 20 past, we will
22 then go until 1 o'clock at which time we'll take the lunch
23 break until 2, we will then resume at 2 and continue until
24 approximately 3.45, take a 15 minute tea break, resume at
25 4 and hopefully be finished by 6 o'clock, if we need that
26 much time, though we will continue if we need to in order
27 to complete the submissions from NGC. Can I just ask NGC
28 if that's an acceptable programme for the remainder of the
29 day?

30 **MR BIELBY:** That's fine thank you.

31 **CHAIR:** All right. We will now adjourn and I would, though,

1 like to thank Mr James, it is very valuable to the
2 Commission to be able to speak directly to the Chief
3 Executive and we do also take it as a good sign that this
4 is the first time you've been before us, but we are very
5 grateful to you, it is helpful to us to get the view from
6 within the organisation. We get value from the experts
7 but it helps to get the input from people with industry
8 expertise. So thank you very much. We will then return
9 at 11.20, thank you.

10 **Adjournment from 11.05 am to 11.25 am**

11 **CHAIR:** I'd like to reconvene this session and invite NGC to
12 proceed with your submission please.

13 **MR BIELBY:** We now come to Mr Wilson's presentation.

14 **MR WILSON:** Chair and Commissioners, today I'd like to give
15 you an insider's view of the pipeline business. I'm not
16 an economist or a lawyer, I'm a commercial guy trying to
17 make good investment decisions for NGC. So that is the
18 perspective I'm coming from and what I'd like to leave you
19 with today is a clear mental picture of the kind of
20 commercial landscape we're operating in. I'd like to talk
21 about my view of gas as a fuel, about the investment risks
22 to the transmission and to the network business and about
23 the importance of innovation.

24 Just a reminder that NGC's transmission business
25 essentially consists of pipelines radiating out from the
26 Maui pipeline. NGC is operator of the Maui pipeline but
27 the Maui pipeline is owned by the Maui mining companies.
28 The transmission system delivers gas into a number of
29 distribution systems, largely owned by Vector, Powerco,
30 Wanganui Gas, but the areas marked in yellow on the
31 diagram there are NGC's distribution systems. So

1 generally we reticulate gas in primarily the Bay of Plenty
2 and the Waikato, but also south and north of Auckland in
3 Gisborne and down in Kapiti.

4 **CHAIR:** Can I just ask you a question, and if it's
5 confidential you'll tell me, but you operate the Maui
6 pipeline; is it the intention that you will continue to do
7 so under the arrangements that are currently being
8 negotiated for the future?

9 **MR JAMES:** Perhaps I should answer that Chair. We have
10 proposed to the Maui mining companies that we project-
11 manage the access arrangement on their behalf in
12 conjunction with our own, and that we then, for a limited
13 period, become the system operator until that system is
14 established before that aspect of it potentially goes to
15 tender. So that's a new piece of work. In terms of the
16 continued physical operation of the pipeline that may come
17 up for some sort of unusual review. It's a process that
18 we've undertaken for many years and I would see that that
19 would continue in the foreseeable future.

20 **CHAIR:** How is it, again you'll have to tell me if you can't
21 discuss this here, but in terms of the terms and
22 conditions of that access, other than that which may be
23 agreed in advance, is that something -- you will receive
24 those terms and conditions or you will propose them to the
25 owners of the pipeline?

26 **MR JAMES:** No, the MMCs are developing their own proposed
27 access arrangement, they're in industry consultation now.

28 **CHAIR:** Sure, but it doesn't actually yield a price, does it?

29 **MR JAMES:** Not that I'm aware of, no.

30 **CHAIR:** So that price will be set by the partners or will you
31 be involved in that?

1 **MR JAMES:** If we're involved in that it would only be as a
2 consultant. It will be set by the owners in my view.
3 We've argued -- sought to influence them to as far as
4 possible make the pipeline system's access arrangements
5 similar so there's an industry benefit and notwithstanding
6 some constraints that they have we're attempting to do
7 that.

8 **CHAIR:** Okay thank you.

9 **MR WILSON:** The Commission has characterised gas in
10 New Zealand as a commodity. It is true that some features
11 of gas in New Zealand are like a commodity, certainly
12 specification gas is fungible. So providing gas is
13 treated to the New Zealand standard NZS 5442. Regardless
14 of the field that the gas is sourced from it can then
15 enter the transmission system and it's indistinguishable
16 from any other gas in the transmission system at that
17 point.

18 But there are certainly some aspects that are unlike a
19 commodity. There are few sellers, there's no spot market,
20 it's a small market and gas is generally bottom sold under
21 long-term fixed term contracts. So these are more like
22 the features you would expect from an immature market
23 where investment and market risk is high. So I would
24 characterise gas more as a marginal fuel than as a
25 commodity.

26 If we turn and look at the supply side uncertainties
27 to the transmission business, it's well known that the
28 Maui Field is depleting early and we've talked about that
29 a little bit this morning already. The replacement
30 options of course are a number of small fields, a move
31 towards liquefied natural gas, LNG, or decline of the

1 industry.

2 Looking at the first option, more small fields,
3 generally I think people would agree that that would be a
4 good result for the industry and good for New Zealand.
5 Whether it's good for the pipeline business or not depends
6 on where those fields are. The transmission system is
7 engineered to accommodate gas coming in at Taranaki. In
8 Taranaki there's a dense mesh of large diameter pipelines
9 and from there the gas is piped out to the extremes of the
10 system north and east and south and the pipelines there
11 are sparse and stringy. So Taranaki really is the heart.

12 Whether it's good news or bad news for the
13 transmission system if more fields are found really does
14 depend largely on where those field are. If the fields
15 are in the southern ocean or off the Wairarapa coast, then
16 the transmission system will have to be re-engineered,
17 there will be considerable investment in that.

18 A similar situation arises with LNG. It is true that
19 LNG would secure the long-term future of the gas industry,
20 but you might expect that whoever does invest in the LNG
21 infrastructure they would be investing perhaps up to
22 \$1 billion, they would probably want to see that
23 infrastructure close to the demand centre. So perhaps
24 close to Auckland rather than taking it on-shore in
25 Taranaki. Again that's like moving the heart of the
26 transmission system to somewhere else and that would
27 require again some major surgery.

28 The decline of the industry, of course, would not be
29 good for anyone, so I won't even go there.

30 Perhaps one other thing to say before I move off
31 talking about the alternatives to Maui, and that is to say

1 that our pipeline assets are very long lived assets. We
2 accept that they will have a life of 65 years and to get a
3 return on those assets and to earn the cost of capital of
4 those assets we really require to have them economically
5 in use for 65 years. If it is the case that there's a
6 major reconfiguration of the pipeline system, then there's
7 the possibility that some of those assets might become
8 redundant or not economically used or used in some
9 different way, or we might have to reinvest to achieve the
10 same result.

11 So although what we're experiencing now is possibly a
12 rare event, after all the Maui Field has lasted 25 years,
13 it's not all that infrequent in terms of the life of the
14 pipelines which are 65 years. You would expect if we're
15 replacing with smaller fields that the changes will be
16 more frequent in the future.

17 Turning to the Maui pipeline and access to that
18 pipeline, this also could be good or bad news for NGC,
19 depending on what the final outcomes are around those
20 commercial arrangements. If we go on to the next slide
21 you'll see that for most of the route of the Maui pipeline
22 one of NGC's pipelines, our Kapuni to Rotowaro pipeline
23 runs in parallel. Also one of our pipelines runs from the
24 Kapuni gas treatment plant more or to New Plymouth. We
25 call it the Frankley Road pipeline. We fully expect that
26 when the Maui pipeline does go open access the gas flow in
27 our Frankley Road pipeline will reverse. Currently gas
28 flows down that pipeline towards Kapuni, it's very likely
29 to reverse and flow from Kapuni into the Maui pipeline.
30 That's simply a result of more gas now being transported
31 from the south.

1 We have Rimu gas coming in close to Hawera and that
2 resource is increasing. We now have three trains and full
3 operation at Kapuni, so there's more gas being produced
4 there and of course out into the future we expect the Kupe
5 gas to be coming on-shore somewhere in that region and
6 that gas will also need to be transported up the Maui
7 pipeline because the NGC pipeline is probably too small.

8 **MS BATES:** Excuse me, if I could just ask a question on a sort
9 of related area. It occurs to me now. One of the earlier
10 submitters was concerned about the prospect of when open
11 access comes, that the arrangements will be common
12 carriage rather than contract carriage. Is that a concern
13 of your company?

14 **MR WILSON:** There are some aspects of the Maui access regime
15 that are of concern to us. We have a particular vision of
16 how access should develop between the two pipelines. We
17 think probably this whole argument about common carriage
18 versus open access is a misguided argument. To us the
19 really important thing is that the access regimes are
20 compatible, that they're as seamless as possible, and also
21 that whatever we do in terms of access tries to encourage
22 the development of a spot market for gas.

23 **MS BATES:** I'm asking you about this because you identify it
24 as one of the non-commodity characteristics of the
25 New Zealand gas market, that long-term fixed price
26 contracts were the norm. It seemed that the earlier
27 submitters were lamenting the fact that if there was a
28 common carriage regime on the Maui pipeline, that it
29 wouldn't be possible on that to secure the long-term fixed
30 price contracts and that that would cause uncertainty and
31 therefore lack of investment.

1 **MR WILSON:** Yes, I understand that argument and that certainly
2 what we found on our pipelines when we were moving towards
3 our access regime. It was very strongly argued by those
4 retailers that were interested in developing power
5 generation that underwrite the investment in power
6 stations they needed long-term secure contracts and their
7 view was that a long-term secure contract required them to
8 have access to capacity, to be able to buy capacity on the
9 pipeline and certainly common carriage doesn't offer them
10 that option.

11 **MS BATES:** What do you think about that argument?

12 **MR WILSON:** I think that's a valid argument, that I'm sure
13 when a party is trying to underwrite the cost of building
14 a new power station they would want to eliminate as many
15 risks as possible and certainly the risk of not having
16 capacity available when you need it is a significant one.

17 **MS BATES:** Thank you, I'm sorry for taking you a bit off
18 track.

19 **CHAIR:** Does NGC provide for common carriage? Is that the
20 basis of your access?

21 **MR WILSON:** No, our access regime is based around selling
22 capacity, so it's a contract carriage regime. In my view
23 the two are not necessarily -- it's not necessarily an
24 either/or situation. I don't see any reason why the Maui
25 pipeline, for example, couldn't have a common carriage
26 regime for some of the gas transported through it, but
27 also sell off some of its capacity under contract
28 carriage.

29 If we go on to the next slide I talk about the demand
30 side uncertainties in the business. There are a range of
31 industrial trends that we've seen over the life of our

1 pipelines that have had varying affects on the value of
2 those pipelines. We've seen the electricity industry
3 deregulation. Generally I think the deregulation of the
4 electricity industry has been positive for the pipelines.
5 Certainly there are more power stations now and there are
6 a number of co-generation stations.

7 But there are aspects of the industry deregulation
8 that might be negative for the gas industry and one of
9 those is the fact that gentailers might not be so
10 motivated to encourage the development of the use of gas
11 off distribution networks. Certainly we've had some
12 gentailers coming to us saying that if our prices aren't
13 right they would equally well just abandon the reticulated
14 market and put gas into their power stations.

15 There's been a major dairy industry consolidation.
16 This has generally been negative for the gas industry.
17 Some dairy factories have specialised. For example, the
18 Hautapu factory has specialised on casein cheese and whey
19 protein. Others like the Morrinsville factory did close
20 down for a while and now specialise in butter. But by far
21 the most common thing we've seen is dairy factory
22 closures, Stratford, Pangarehu, Midhurst, Okato,
23 Maungatapere, all these are dairy factories that have
24 closed.

25 It's true that there has been a major increase in
26 demand for gas and certain dairy factories. For example,
27 in Anchor's Te Rapa's dairy factory, Contact Energy built
28 a co-generation plant there which we do now supply through
29 our pipelines, but the Te Rapa dairy factory is just a
30 stone's throw from the Maui pipeline, so the revenue from
31 that is relatively small. It's a bypass pricing

1 situation.

2 It's also true that there's been huge growth down at
3 the Kapuni dairy factory in Hawera but while that used to
4 be supplied off an NGC pipeline it's now supplied from a
5 dedicated pipeline built by Shell and Todd from Kapuni.
6 So generally the dairy industry consolidation has been
7 negative for the pipeline business.

8 Similarly the development of the timber industry has
9 been very disappointing. Many of the expansions of the
10 pipeline system have been optimistically based on what has
11 been called the wall of wood and the graphic there from
12 the timber industry board shows how wood production is
13 forecast to increase over the next 30 years in the various
14 regions. This was certainly a significant consideration
15 for us, for example, when we built our north pipeline, the
16 pipeline that goes to Whangarei.

17 There were some major customers in Northland which
18 were on coal that we believe that would convert to gas and
19 generally speaking they did convert to gas when the
20 pipeline was built there. Shortly after the pipeline was
21 commissioned we lost several of the major meat works, the
22 Weddel(?) works and the Affco works. Pilkington glass,
23 one of the major users up in Whangarei closed down.

24 The development of the timber industry which was
25 anticipated hasn't eventuated and there have been a few
26 reasons for that. One's technological, just the fact that
27 the technology has now developed so that waste wood can be
28 efficiently used at timber plants. So waste wood has
29 emerged as a significant competitor to natural gas.
30 Another is that the economics for log exports are quite
31 favourable, so rather than doing any processing whatsoever

1 in New Zealand, timber is exported as logs.

2 **MR STEVENS:** Can I ask you a follow-up question on that issue.

3 Do you see it as a result of the high energy costs as to
4 why they're not value-adding in the timber industry here?

5 **MR WILSON:** Energy cost will certainly be a factor, I don't
6 think there's any doubt about that.

7 **MR STEVENS:** I guess you'd be aware as well as the Commission
8 the recent announcement by Norske Skog to close down some
9 of their lines as a result of energy cost issues and just
10 really picking up on Mr James' earlier comment on the
11 possible flight of heavy industry and whether you had any
12 views on that.

13 **MR WILSON:** I think I mentioned before that in a very short
14 period of time the price of gas in the market has
15 escalated quite rapidly and fairly dramatically. It's
16 inevitable that there's going to be demand reaction.

17 **MR STEVENS:** I'm surprised in the wood waste area. We're not
18 aware of significant wood waste being used for energy in
19 the timber industry and certainly be interested in any
20 data that you have in that area.

21 **MR WILSON:** We can certainly provide that, yes. A good
22 example would be the Jukken Nishu plant in Gisborne. I do
23 talk about Gisborne a little later on, but Gisborne is
24 another area where it's anticipated that a lot of timber
25 is going to come to maturity and require to be treated, or
26 exported as the case might be. Certainly it was one of
27 the considerations when we were building the pipeline to
28 the Gisborne, but as things turned out the Jukken Nishu
29 plant is now substantially powered on wood waste.

30 **MR STEVENS:** I think at the time, though, Jukken Nishu
31 announced they were on a take or pay contract.

1 **MR WILSON:** That's right, yes.

2 **MR STEVENS:** So how would that have affected that?

3 **MR WILSON:** I think when we get to the graphs you'll see that
4 while Jukken Nishu were on their take or pay issue they
5 did use up their gas entitlement but as soon as they got
6 clear of that contract they started using wood waste.

7 **MR JAMES:** If I could just add, Commissioner Stevens, it's
8 hard to see, and Ian has suggested that energy cost inputs
9 may have been a factor, but it's hard to see if we look
10 back to the beginning of the Maui period in a 25 year
11 period where New Zealand energy prices had been at the
12 lower end, right down the low end of world energy prices
13 and a significant value-added timber industry hasn't
14 evolved in that period. It may be an argument now that
15 it's not going to, but it hasn't. So while energy prices
16 may have been a factor, I can't say what were the key
17 drivers, but I think I could say with confidence that
18 energy prices weren't the only constraint to the lack of
19 value-adding development in the timber industry.

20 **MS BATES:** I just have a follow-up question at this point.
21 I'll address it to either of you, Mr James or Mr Wilson,
22 but Mr James I understood to say, at this present point in
23 time demand exceeds supply.

24 **MR JAMES:** [Nods]

25 **MS BATES:** We're talking about industry trends which you're
26 talking as to what has happened rather than what will
27 happen as a result of deregulation and other matters. Am
28 I to take from putting both those two together that the
29 effect on your business has -- you haven't actually had an
30 effect on your business with the industry trends, but
31 you're predicting there will be. If demand exceeds

1 supply, one would expect that you'd be all right, if you
2 get what I mean, that you hadn't suffered any detriment as
3 a result of these industry trends overall because demand
4 exceeds supply. So I'm just asking you about that.

5 **MR WILSON:** Sorry, obviously I've failed dismally to
6 communicate the point here.

7 **MS BATES:** Well maybe I've become stupidly confused.

8 **MR WILSON:** No, my point is that in just about every one of
9 these instances there's been some occasional upside for
10 the pipeline business. Generally it's been negative and
11 that's why we have made some investments that while they
12 looked very bright prospects at the time that the
13 investment was made, they've turned out to be bad
14 investments with the wisdom of hindsight. A good example
15 would be the pipeline across to Gisborne and to a lesser
16 extent the pipeline up to Northland.

17 **MS BATES:** So you've made some investments which are not going
18 to pay off you think, but in terms of the quantities of
19 gas you've sold, does it remain the same or more?

20 **MR WILSON:** There are two issues. One is the quantity of gas
21 transported through the pipelines and the other is the
22 price that the gas that's transported for.

23 **MS BATES:** Yes, I understand that.

24 **MR WILSON:** Phil did put up a graph earlier on that showed
25 that the volumes of gas in the pipeline had actually
26 increased substantially for a number of years. Largely
27 that was driven by the increase in gas fired electricity
28 generation.

29 **MS BATES:** That's the first graph that goes [indicates]

30 **MR WILSON:** That's right, yes, but the indication is that the
31 trend is turning there now.

1 **MS BATES:** We're not far into it though are we?

2 **MR WILSON:** Not far enough into it I think to call it a trend,
3 and certainly if there is more gas fired generation, for
4 example on the back of the Kupe field, or on the back of
5 some of the other fields that are coming on line, you
6 would expect that that volume of gas transported would
7 increase. But generally speaking what we found is that,
8 and if you look at where all the power generation is at
9 the moment, it's either along the Maui pipeline or it's up
10 in Auckland or it's very close to the Maui pipeline. So
11 for our transportation business, and remember we own these
12 pipelines, these long stringy ones that go all the way up
13 to Northland, all the way over to Gisborne, down here
14 to --

15 **MS BATES:** Kapiti.

16 **MR WILSON:** Sure the volume might increase substantially but
17 the actual --

18 **MS BATES:** You won't be able to be price competitive with the
19 other pipeline.

20 **MR WILSON:** Yes, that's right. We won't be deriving a
21 significant economic benefit is what I'm saying.

22 **MS BATES:** Thank you.

23 **MR WILSON:** I think we got to talking about the meat industry
24 which also generally has been fairly negative. There are
25 a number of meat works around the country which are
26 supplied with gas pipelines but they've generally closed
27 down. Often we're still supplying the community that
28 built up around those meat works. The Patea Freezing
29 Works would be a good example, we still have a pipeline
30 lateral going to Patea, we still supply gas there, but the
31 demand is very small compared to what it used to be.

1 There have been demographic trends. In our submission
2 we show the effect of the shift in industry to Auckland,
3 the effect of that on the Hutt Valley. I should have
4 pointed it out on the previous overhead, but you might
5 have noticed that along the south pipeline there were
6 various loops in the pipeline, so areas where alongside
7 the original 8 inch pipeline we've added 12 inch pipeline
8 in fact. That was done back in the 1980s when the demand
9 on the south pipeline down here in the Hutt in particular
10 was growing quite dramatically. We made those investments
11 then obviously in the hope of earning a fair return on
12 them, but now those investments are optimised out of the
13 asset base, because the demand in the Hutt Valley has
14 collapsed and instead of having an 8 inch pipeline and a
15 12 inch pipeline in our asset base they've been optimised
16 down to a 12 inch pipeline.

17 There are also various other demographic trends, but
18 point I'm trying to make is that customers on the demand
19 side always have alternatives, they can move their
20 factories, they can switch their fuels, they can change
21 products, they can save energy, they can invest in energy
22 saving, but for the pipeline there's no alternative. Once
23 that pipeline is built to a particular geographic
24 location, either we earn an economic return on it
25 throughout its life and we need to do that so that our
26 investors, our shareholders get a return of their capital
27 and get a fair return on the value of that capital during
28 the life of the pipeline, or we have economic write-downs.

29 **MS BATES:** Can I just come back to that Maui question, the
30 pipeline that parallels Maui at the moment is a pretty
31 lucrative one for you, is that what you're saying?

1 **MR WILSON:** It's very good for us at the moment, in fact that
2 pipeline is one of our few pipelines that's actually
3 operating at capacity. So we actually couldn't put more
4 gas down that pipeline if we wanted to. But that's a very
5 recent development. It's only very recently that the
6 value of that pipeline has been written back into our
7 asset base. Previous to that the whole pipeline was
8 optimised out of our asset base so we were getting no
9 return whatsoever on the value of that asset.

10 **MS BATES:** So you are going to, you think, lose a fair bit of
11 business when Maui becomes open access?

12 **MR WILSON:** There is the potential to do that, either that or
13 it might be that we have to reduce our prices further and
14 maybe we won't be able to recover the economic value of
15 the pipeline.

16 **MS BATES:** You'll be competitive with them won't you?

17 **MR WILSON:** It may be competition, yes. There are a few
18 factors that might influence producers as to whether they
19 want to use the Maui pipeline or the NGC pipeline. For
20 example --

21 **MS BATES:** Contractual arrangements would be one of the
22 things.

23 **MR WILSON:** Contractual arrangements are certainly one. If we
24 look at the Morrinsville system for example, the
25 Morrinsville system is only supplied from the NGC pipeline
26 at the moment, so if a shipper wanted to transport gas to
27 Morrinsville, at the moment they would actually have no
28 option but to use our pipeline. Similarly if a customer
29 wants to transport gas to Huntly Power Station, they have
30 no option but to transport the gas on the Maui pipeline
31 because that station isn't connected on to our pipeline.

1 **MS BATES:** Thank you.

2 **MR WILSON:** I'd like to tell you the story about some of our
3 pipelines. I thought the Waitoa pipeline was a good
4 example of the kind of issues that I'm trying to describe
5 to you. The Waitoa pipeline, it's a 4 inch yellow jacket
6 pipeline that winds through the Waikato and it was built
7 in 1985 to supply the JD Wallace rendering plant. The
8 pipeline did seem to have bright prospects at first. As
9 you can see from the graph here until 1990 we did do
10 rather well, not as well as we'd hoped because we'd hoped
11 to also capture the Waitoa dairy factory which was at that
12 time on coal and in fact the Waitoa dairy factory is still
13 on coal. But we did develop a network which supplied the
14 township of Waitoa.

15 You'll see, though, that in 1990 JD Wallace converted
16 their operation to coal, so suddenly the fortunes of the
17 pipeline were reversed. The pipeline was capable of
18 delivering about 200,000 gigajoules a month and we dropped
19 down to supplying just the township demand which was,
20 you'll see from the chart here, less than 10,000
21 gigajoules a month, so less than 5 percent of the capacity
22 of that pipeline.

23 About a decade later in 1998 we did manage to win JD
24 Wallace back from coal and the plant is still currently
25 supplied on gas at a much reduced price I might add, but
26 that has resulted in a substantial increase in demand so
27 that now we're achieving about 25,000 gigajoules a month,
28 about 12 and a half percent of the capacity of that
29 pipeline.

30 If we look at the Gisborne pipeline we can see that
31 something similar has happened in -- the Gisborne pipeline

1 was actually built on the back of prospects of converting
2 four major customers to gas from coal. Gisborne
3 Refrigerating Company, Advance Meats, Watties and the
4 Gisborne Hospital. In fact all those companies did
5 convert to gas. Shortly after in fact we got some new
6 processing plant on gas, Tomato Developments Limited and
7 after that Jukken Nishu.

8 Things did go very well for a while, in fact you'll
9 see there for one very brief period in 1995 we actually
10 got quite close to the capacity of the pipeline which is
11 100,000 gigajoules a month. Since then the two meat works
12 have closed down, Gisborne Refrigerating closed, Advance
13 Meats have closed, Watties have moved most of their
14 processing from Gisborne to Hastings, the Gisborne
15 Hospital is still taking gas. Tomato Developments which
16 changed to Sedenko moved across to Australia in 1996 and
17 as I mentioned earlier Jukken Nishu is now substantially
18 fuelled on waste wood.

19 So the prospects of the pipeline have changed quite
20 dramatically in that time and you'll see now that for a
21 pipeline with a capacity of 100,000 gigajoules a month
22 we're operating at substantially below that. What happens
23 in these kind of situations? Well as I said before, it
24 can be that we optimise the pipeline down. In the case of
25 the Gisborne pipeline most of it is 4 inch pipeline so
26 it's not realistic to optimise it down. We would need
27 that 4 inch pipeline even to supply that reduced load. So
28 in that case we're looking at the situation where there's
29 not enough revenue being generated off that pipeline to
30 justify its economic cost and we have an economic value
31 write-down and that's the case in the Gisborne situation.

1 **CHAIR:** On the previous example, the one before that, you
2 still pass an economic value test do you?

3 **MR WILSON:** On the Waitoa pipeline I believe we still pass
4 the economic value test with JD Wallace. Whether we
5 manage to hang on to JD Wallace is --

6 **CHAIR:** So despite your substantial reduction in price, you
7 were still able to meet your required revenue threshold?

8 **MR WILSON:** That's right. I should mention here that we
9 conduct an ODV valuation in accordance with a draft
10 handbook that was issued by the Ministry for Economic
11 Development and that handbook has never been finalised, so
12 in the gas industry the rules around ODV are not as
13 certain as they ought to be. We have a particular view
14 about what kind of time horizon we ought to be able to
15 take when considering optimisation and economic value
16 issues. I just raise that because it might be, depending
17 on what the final form of that handbook is, that we would
18 have to reconsider some of our assessments on these
19 pipelines.

20 **CHAIR:** They took a shorter --

21 **MR WILSON:** Exactly, yes.

22 **CHAIR:** So you're not using the timeframe in the handbook in
23 that case or are you saying if it were to change from what
24 the handbook currently is?

25 **MR WILSON:** If it were to change from what the handbook
26 currently is. We argued strongly that it should be at
27 least 10 years, which is what it is in the handbook at the
28 moment. I think there's a very good case for these
29 pipelines to argue that it should be longer, because as
30 you can see the prospects of a pipeline can change quite
31 dramatically over time.

1 **CHAIR:** So when you price, which of the valuation
2 methodologies do you price to? Do you use ODV, do you use
3 ODRC, ORC?

4 **MR WILSON:** In the case of the Waitoa situation when we're
5 pricing to JD Wallace it's an alternative fuel price so
6 it's really governed by the economics of that alternative
7 fuel. But if you look at our system overall, obviously
8 you judge our overall return against the overall value of
9 our asset and I think if we move to the transmission ODV
10 here you can see that we would be earning a return on our
11 ODV and no doubt that's how the Commission has judged the
12 profitability of NGC.

13 But you must remember that from the replacement cost
14 we've optimised out about 17 percent of the value of those
15 assets and then we've had a 6 percent economic value
16 write-down of other assets. So we're getting a return on
17 an asset base that is an optimal asset base, it doesn't
18 represent all the assets owned by NGC.

19 **CHAIR:** Sure, I understand that. Can I just ask you, in terms
20 of the overall value of the company, how often -- what
21 percent of your asset base would you be pricing based
22 purely on the ODV value as opposed to the alternative fuel
23 costs; do you have any sense of that?

24 **MR WILSON:** Maybe just to give you a feel for it, we have a
25 posted price which has a capacity reservation fee and a
26 throughput fee. The amount of gas moved under those
27 posted prices is about 38 petajoules a year and I think I
28 mentioned earlier that in aggregate we move about 100
29 petajoules a year.

30 **CHAIR:** So that 38, when you have the posted price, how do you
31 set the posted price?

1 **MR WILSON:** The posted price is set according to a methodology
2 in our Information Memorandum. Basically it's a cost
3 allocation. It's a bit hard to explain it without a
4 whiteboard, but basically the concept was that customers
5 should only pay for the portions of the pipeline that they
6 used, so a customer in Gisborne, for example, would pick
7 up a cost of the pipeline passing through the Bay of
8 Plenty on its way to Gisborne, but a customer in Tauranga
9 would not pick up any of the cost of the pipeline going to
10 Gisborne. That's broadly the concept that's behind the
11 cost allocation.

12 **CHAIR:** And you determine the cost how, that's going to apply
13 to the posted price?

14 **MR WILSON:** There are two major elements of the price, one is
15 the capacity reservation fee and we will cover the asset
16 cost through the capacity reservation fee. So in
17 aggregate across our system we would expect to cover the
18 depreciation and a return on those assets. The other
19 element is the throughput fee and we recover all our other
20 costs through the throughput fee.

21 **CHAIR:** Do we have that Information Memorandum?

22 **MR MELVILLE:** [Nods]

23 **CHAIR:** We do, okay. That memorandum gives all the
24 information about what return you're seeking overall?

25 **MR WILSON:** No, it doesn't do that. In fact I should mention
26 that that pricing methodology actually hasn't been applied
27 since 1999. Effectively NGC's capacity reservation fees
28 have been frozen for that period. There are various
29 reasons behind that, but the major one is that the
30 application of the pricing methodology just produced
31 prices that were too volatile in the market, so we had the

1 situation where the price at a particular delivery point
2 was being affected by certainly all the other demand ahead
3 of it on the pipeline but also by demand changes at that
4 delivery point.

5 So you could have the situation, for example, where
6 at a delivery point a major customer closed down and
7 because it was just a cost allocation the price of that
8 delivery point shifted up substantially, and retailers
9 found it very very difficult to deal with that volatility.
10 They didn't mind the volatility if there was some economic
11 rationale underlying it, but in this case there wasn't any
12 economic rationale. The volatility was just a product of
13 that cost allocation methodology and as with any cost
14 allocation methodology --

15 **CHAIR:** So you didn't think the cost allocation methodology
16 was founded in any rational economic basis?

17 **MR WILSON:** That's correct, and I think that's true of any
18 cost allocation methodology. The only way you could get
19 away from that is if you moved to some kind of marginal
20 cost pricing regime. Interestingly enough NGC did start
21 with a pricing structure that did attempt to reflect
22 marginal cost. When we first went open access back in
23 1997 our tariff at that point in time had a very small
24 variable component. It was only 3 cents a gigajoule and
25 the concept there was that we would attempt to reflect the
26 variable costs in a variable price. But that was really
27 very strongly disliked by the shippers on the system.

28 **CHAIR:** So you don't use your cost allocation model any
29 longer?

30 **MR WILSON:** No, we haven't used it since 99.

31 **CHAIR:** So what do you use?

1 **MR WILSON:** What we target is to get a return across our full
2 asset base, across the ODV. So we intend to recover all
3 our operating costs, the depreciation and a return on the
4 assets.

5 **CHAIR:** And it doesn't bear any relationship to what the
6 company actually used that's purchasing from you, it's
7 just somehow averaged out?

8 **MR WILSON:** No, the prices are as they were back in 1999, so
9 the capacity reservation fees haven't changed since that
10 time, so to the extent that they were right or wrong at
11 that time they're still right or wrong to the same degree
12 now.

13 **CHAIR:** In 1999, what percentage of your gas was sold through
14 this mechanism compared with today?

15 **MR WILSON:** More. Probably not substantially more, but I
16 would guess probably about 40, 41 petajoules.

17 **CHAIR:** So between 99 and now, the amount, subject to that,
18 has changed very modestly, and the price has not changed,
19 the condition hasn't changed, but that's in nominal terms.
20 In real terms has it gone down, do you inflation adjust
21 or --

22 **MR WILSON:** There was one year where we made an inflation
23 adjustment, but generally speaking the prices are the same
24 as in 99. We certainly haven't kept pace with inflation,
25 we only moved the prices with inflation one year during
26 that time.

27 **CHAIR:** What happens to the other 62 percent?

28 **MR WILSON:** The other 62 percent is priced on bypass
29 effectively. Either it's a physical bypass opportunity --

30 **CHAIR:** So you price up to bypass?

31 **MR WILSON:** No, sorry, there are a few situations here. One

1 is bypass, so for example, a good example would be the
2 Otahuhu Power Station up in Auckland. At the time that
3 power station was being considered, a consortium of
4 customers, actually the owners of the Southdown Power
5 Station, the owners of the reticulation system in Auckland
6 and the prospective owners of the Otahuhu Power Station
7 proposed building a bypass pipeline from the Huntly off-
8 take from the Maui pipeline, and we negotiated our term
9 price for supply of gas to Otahuhu and Southdown. So
10 those were physical bypass prices.

11 More often, though, particularly for the smaller
12 customers, physical bypass just isn't an economic option,
13 but they do have alternatives. Customers always have
14 alternatives. Their alternative generally is another
15 fuel, so we're pricing against, for example, commonly
16 waste wood, coal, LPG, fuel oil. I think in fact we might
17 already have given the Commission some examples of this
18 kind of pricing.

19 Sorry, Paul's just said that there are two components
20 of price and the one I've been talking about, the capacity
21 reservation fees have not changed since 99. The
22 throughput fee has changed in that time.

23 **CHAIR:** What happened to it?

24 **MR WILSON:** The throughput fee has moved up several times, in
25 fact every year the throughput fee has moved up.

26 **CHAIR:** How do you determine what the throughput fee is and
27 how much you change it by?

28 **MR WILSON:** The throughput fee has to recover the movement in
29 our costs, put in aggregate we're back to the same
30 situation, that what we're trying to do in aggregate is to
31 recover our costs, including the cost of the capital

1 invested in pipeline business.

2 **CHAIR:** So overall, regardless of what's happened in the
3 market you've been able to maintain, through adjusting
4 your throughput fee, the return you require on your asset
5 base?

6 **MR WILSON:** I wouldn't say that we've managed to achieve the
7 return that we believe we require on the asset base. We
8 don't accept the Commission's calculations of course and
9 we don't believe that we are earning a full return on
10 those pipeline assets.

11 **CHAIR:** The way you actually determine your variation in the
12 throughput fee is just, your change of cost drives
13 whatever the change in cost you face?

14 **MR WILSON:** That's right, we have recently put out a letter to
15 our customers about the adjustment in the price that is
16 likely to happen on 1 October this year and in that letter
17 we list the costs that have changed in our business and
18 talk about those cost movements. We can provide that.

19 **CHAIR:** I think it would be useful to have a look at that.
20 Sorry for taking so long on this, we might want to come
21 back to some of this, but I'll let you proceed with the
22 presentation.

23 **MR WILSON:** Sure. Summarising the transmission investment
24 risks, we have risks from the supply and the demand side.
25 On the supply side we've talked about the new fields and
26 LNG, so we're at the risk there that the heart of the
27 system, which is currently in Taranaki, might move
28 elsewhere and that would change the whole technical
29 operation of the pipelines and require further investment.
30 We've talked about the Maui pipeline going open access and
31 the fact that that might significantly change the use of

1 some of our pipelines, reverse the flow in the Frankley
2 Road pipeline for example.

3 On the demand side we've talked about competing fuels,
4 coal, wood waste and geothermal and the fact that demand
5 is more mobile than the pipelines. Demand can shift
6 around, the pipelines stay where they are.

7 I should say that in describing this I'm not
8 suggesting at all that NGC is adverse to taking these
9 risks. We understand that this is the business that we're
10 in and these are the risks that we face. We accept the
11 risks and we happy to carry on taking the risks. We're
12 the best party, we understand the business best, we should
13 carry on taking those risks and Phil mentioned earlier, I
14 think, our investment in trying to get a route designation
15 from Huntly through to Auckland. That is an example of
16 where NGC is investing quite a substantial amount of money
17 just in trying to keep a corridor clear through to
18 Auckland so that at some time in the future we might be
19 able to build a pipeline there if demand justifies it.

20 **CHAIR:** I kind of wonder a little bit about the picture you've
21 given us here. I mean I accept that pipelines are fixed
22 in the place they are, but it seems to me many of your
23 customers, as you have sunk assets, most of them have
24 built plant and equipment that's equally sunk and once
25 committed very hard to switch from. So I wonder if demand
26 is quite as fluid as what you're suggesting.

27 **MR WILSON:** It is true that the customers have made capital
28 investments too and this is why it's very difficult to get
29 estimations of elasticity on the demand side because they
30 probably want to carry on using gas until the end of the
31 economic life of whatever plant they have. But generally

1 speaking, even if you're looking at a major investment
2 such as a power generation plant, that life might be
3 between 10 and 20 years. Our pipelines have a physical
4 life of 65 years.

5 While it's true that customers might suffer from the
6 same kind of supply and demand changes that I've been
7 talking about, generally the customers can move to their
8 alternative quite easily, whereas NGC's investment is sunk
9 in more ways than one, it's physically there in the
10 ground, we can't pick it up and move it anywhere, it's got
11 no alternative use. So I think it's wrong to say that
12 NGC's exposed to the same risk as its customers.

13 **CHAIR:** I don't think that was the implication of what I was
14 saying.

15 **MR WILSON:** Sorry, I maybe misunderstood.

16 **CHAIR:** If one of your customers has built a plant, and let's
17 just say it's only going to be there for 20 years, and
18 you've got your sunk assets and a pipeline that's going to
19 be there for 60 years, does the fact that you know that
20 plant's only going to last 20 years change your pricing
21 behaviour with them?

22 **MR WILSON:** There is always a pricing constraint in my
23 experience.

24 **CHAIR:** Does it matter whether it's 20 years or 60 years?

25 **MR WILSON:** It certainly matters, yes. Obviously the risk is
26 much lower if we're contracting for the full life of the
27 pipeline than if we're contracting for five or ten years.
28 I can't recall how long the contract was with JD Wallace,
29 but I'd be very surprised if JD Wallace didn't switch to
30 coal just as soon as that contract came to an end, so
31 probably it extended to 1990, and --

1 **CHAIR:** But it didn't stop you from pricing up as far as you
2 could in the first period, did it? That's really the
3 question I'm putting to you.

4 **MR WILSON:** There is always some limit to the price. You just
5 can't price at anything you like. Either there's an
6 alternative fuel or we're limited by the investment that
7 we make in the pipeline because the customer could make
8 that investment, that's the situation we were faced with
9 at Otahuhu, it was a bypass opportunity. So we couldn't
10 price any higher than the bypass price and similarly if
11 the bypass opportunity's an alternative fuel we can't
12 price any higher than that.

13 **CHAIR:** Okay, I'll let you proceed.

14 **MR WILSON:** I feel I maybe haven't satisfied you on those
15 questions, but perhaps we can come back to them.

16 **CHAIR:** We'll keep asking questions if not, you can count on
17 that.

18 **MR WILSON:** If we move on now and look briefly at the network
19 business, the distribution business, I'll just remind you
20 that NGC has distribution networks primarily in the
21 Waikato and the Bay of Plenty but also in Kapiti and
22 Northland and Gisborne. I have much less to say about the
23 distribution networks, not because there isn't a lot to
24 say about them, but just because I'm aware that Vector and
25 Powerco and Wanganui Gas will also be talking to you about
26 the situation in distribution.

27 In NGC's distribution network we have been
28 experiencing growth and we continue to experience growth,
29 quite good growth. The graph on the right-hand side of
30 the screen there is rolling 12 month connections to our
31 distribution networks and you'll see that in the past year

1 we've had about 2,500 new connections.

2 The interesting part are the other two lines. The
3 other two lines show you how much of those 2,500 sections
4 came from existing network and how many came from new
5 networks. About 500 or so came from existing networks.
6 By far the majority of the new connections on to our
7 networks came from new reticulation. In other words to
8 achieve that growth we're having to reinvest in the
9 networks, we're having to extend those networks, having to
10 build new pipelines.

11 The table down at the bottom gives you some
12 perspective on the relative size of the gas distribution
13 business compared to electricity. Of course NGC isn't
14 involved in electricity any more but Vector and Powerco
15 certainly are and for Vector, for example, they have 6 to
16 8,000 gas connections compared to about 612,000
17 electricity connections. So gas is certainly a marginal
18 competitor in the reticulated residential business.

19 The issues facing the distribution companies to some
20 extent are similar. Gas is a discretionary fuel. The
21 market is very difficult to grow. Customers always have
22 alternatives. Where we are achieving growth we're
23 achieving it largely by reinvesting. Those investments I
24 should say are very marginal. It's very very difficult to
25 get residential reticulation to pass an NPV test.
26 Typically we have to look at a time horizon of 20 years
27 and use fairly optimistic growth assumptions, and even
28 then it's difficult to get those investments to pass
29 hurdle rates.

30 Commercial/industrial growth requires innovative gas
31 based solutions. If you have a picture in your mind that

1 customers approach retailers asking for a gas supply for a
2 new plant they're building, generally that would be the
3 wrong picture to have. That used to be the case when
4 there were some major industrial customers that could
5 afford to keep their own engineering staff; generally that
6 isn't the situation any more. You'll find the big plants
7 either employ a consultant to look at all the fuel
8 alternatives or they go to the individual fuel suppliers
9 and ask them to propose fuel solutions. That's the
10 situation we're faced with and we have utilisation
11 engineers that develop particular fuel solutions for
12 particular situations.

13 I'll come back briefly to that at the end of the
14 presentation.

15 **MS BATES:** Could I just ask for some clarification. This is
16 something we talked about before and I've been thinking
17 over the break, just to make sure I understand. On your
18 graph about how much gas was transmitted was 100
19 petajoules, right?

20 **MR WILSON:** [Nods]

21 **MS BATES:** And 60 of those you said went to your major users,
22 including the generators?

23 **MR WILSON:** Sorry, yes, I think I said 40 went to the
24 reticulated sector and the rest went to major users, yes,
25 that's right.

26 **MS BATES:** Yes, so the reticulated sector, that includes your
27 own network as well as other networks?

28 **MR WILSON:** Yes, it does, yes.

29 **MS BATES:** So would it be fair to say that the amount of
30 residential customers you have yourself is probably pretty
31 negligible or do you have any?

1 **MR WILSON:** Yes, yes, we do have residential customers.

2 You'll see on the --

3 **MS BATES:** I'm trying to link that up with the map.

4 **MR WILSON:** Yes.

5 **MS BATES:** I'll let you go on. What percentage do you think
6 of your customers are residential?

7 **MR WILSON:** Probably about 80 odd percent of those connections
8 are residential. So if you look back to the table we're
9 saying there are 56,000 connections off our networks, most
10 of those about 80 percent, 80 odd percent would be
11 residential.

12 **MS BATES:** So that makes you out of the norm for -- remember
13 those figures I gave you before of the reticulated market,
14 28 percent's residential, 55's industrial and 17 percent's
15 commercial.

16 **MR WILSON:** Right.

17 **MS BATES:** Is that figures for the reticulated market but not
18 your network?

19 **MR JAMES:** That's volume, that's percentage of volume hauled
20 through the network. Ian is describing the number of
21 connections. So the two are different.

22 **MS BATES:** Okay, so the volume of gas going through your
23 network is what?

24 **MR WILSON:** About 15 petajoules.

25 **MS BATES:** And of your revenue streams, how much does
26 residential account for, I mean directly, your customers?

27 **MR WILSON:** Of the network revenue only?

28 **MS BATES:** Yes.

29 **MR WILSON:** I'd have to check on that, but my feeling off the
30 top of my head that it would be about a third.

31 **MS BATES:** Might be helpful if you did come back to us with

1 some information about that.

2 **MR WILSON:** We can provide you with all these numbers.

3 **MS BATES:** That is from your own network.

4 **MR WILSON:** That's right.

5 **MR JAMES:** Perhaps to help, the make-up of customer mix on our
6 network would not be substantially different from either
7 the Powerco or Vector network. So the rule of thumb is
8 that residential customers outnumber their industrial --

9 **MS BATES:** Obviously, so we're looking at --

10 **MR JAMES:** But their consumption both at unit level and as a
11 total is the smallest part of network consumption.

12 **MS BATES:** Yes, and I'm asking this in relation to inter-fuel
13 competition and where it bites into your business and how
14 affected are you actually by inter-fuel competition at
15 residential level as opposed to say inter-fuel competition
16 at the level of providing gas to generators, to
17 electricity generators.

18 **MR WILSON:** Yes, gas is always a marginal fuel of course at
19 the residential level, customers must have electricity,
20 it's their choice whether they want gas.

21 **MS BATES:** It's that part of your business that I'm trying to
22 get some feedback from you on the size of that part of
23 your business as opposed to the other business where gas
24 isn't such a discretionary fuel actually.

25 **MR WILSON:** I wouldn't accept that, but I do accept that the
26 residential part --

27 **MS BATES:** I suppose it's easier for it to be a discretionary
28 fuel at the residential level, but when there's
29 substantial investment in plant, the more substantial it
30 gets the more difficult it is to switch etc.

31 **MR WILSON:** Right.

1 **MS BATES:** I'm just explaining to you where I'm coming from
2 and asking you to comment.

3 **MR WILSON:** I do accept that investment is obviously sticky,
4 once these investments are made in significant plant of
5 course there will be an inclination to carry on using that
6 plant for its economic life, no difficulty about that at
7 all. The issue is at the decision point when a customer
8 is looking at what their choices are, so the decision
9 point is the point where they're looking at a change in
10 their plant or their operation or their location, what is
11 the decision then and --

12 **MS BATES:** You've given us an example of where a change was
13 made earlier, right?

14 **MR WILSON:** Yes. So I can't think of any situations where
15 there is no choice at those decision points.

16 **MS BATES:** No, but let's take the situation for generators and
17 major users, there probably are, well, I think the options
18 are probably more limited and the timeframes are probably
19 greater, would you accept that? The time it would take to
20 make a switch for a generator would be probably quite
21 large, wouldn't it, because of the investment and time
22 taken to get --

23 **MR WILSON:** Yes, I accept that.

24 **MS BATES:** And major users are probably in a similar category.

25 **MR WILSON:** Well --

26 **MS BATES:** The ones you supply directly anyway.

27 **MR WILSON:** Yes, most pieces of gas equipment are fairly
28 readily converted to alternative fuels, so if you're
29 looking at a boiler, for example, it's very easy to
30 convert a boiler from, say, gas to LPG, that's not a
31 difficulty.

1 **MS BATES:** I'm quite interested in this. Are you able to
2 provide any examples. We may have talked about this at
3 the earlier conference of where there has been switching
4 with your major users and generators that you supply.

5 **MR WILSON:** I thought we had supplied that information. We
6 can supply more, though, if you want.

7 **MS BATES:** I'll come back to that, thanks.

8 **MR JAMES:** Perhaps, though, if I just might comment here. I
9 think you were asking questions about the evidence at
10 residential, at household level about the competitiveness
11 of gas vis-a-vis, say, electricity. If you look at the
12 chart that's on the screen now, the lower line, the blue
13 line shows the proportion of existing reticulated
14 households, that is mains runners(?) people for whom gas
15 is available but who are not connected who switch and
16 become gas consumers each year. 500 is significantly less
17 than 1 percent of the households reticulated.

18 In that respect the gas industry -- and these are
19 typical across other networks as well -- the gas industry
20 is not keeping pace with inflation growth, or with
21 population growth. Most of our new growth comes where we
22 choose to spend capital in your housing estates, for
23 example, so we pretty aggressively compete at the time
24 that an appliance decision has to be made, rather than a
25 switching decision. So there are --

26 **MS BATES:** Switching decisions at residential, just going from
27 my own experience, can be quite costly because of the cost
28 of getting up driveways and that sort of thing, whereas if
29 you're putting in a new subdivision you're starting from
30 scratch so the individual costs are less.

31 **MR JAMES:** Typically they're taken at times when renovations

1 are going on or when an appliance has broken down and
2 needs to be replaced, those sorts of things. If we were
3 keeping pace, if we were holding our own and the
4 competitiveness of gas and electricity was maintained,
5 then we'd be keeping up with the rate. So, what this
6 indicates, the corollary of this is that more customers --
7 the electricity market is growing at a household level
8 faster than the gas market is.

9 **MS BATES:** Just before I leave that, one thing that I've been
10 thinking about is that, yes, okay, the electricity might
11 be cheaper but if gas prices go up and gas generates a
12 hell of a lot of the electricity, then that must have an
13 effect on the electricity prices.

14 **MR JAMES:** But it doesn't open the gap. The relative price
15 between electricity and gas is narrower today than it was
16 back at the beginning of the Maui period.

17 **MS BATES:** So you think it will always be narrower?

18 **MR JAMES:** Absolutely, because in context in New Zealand gas
19 is the marginal fuel that sets electricity prices, so that
20 price competitiveness will never open up.

21 The other issue too is that in household decisions
22 other components of economic decisions like utility, ease
23 of switching, availability of appliances, those sorts of
24 things become pretty significant decisions as well.

25 **MR STEVENS:** Has your success rate in signing new customers
26 changed from the past? I'm just trying to understand the
27 trend. You say they're hard won gains at the moment to
28 get new customers and their switching. Is that any
29 different from a few years ago? What's the trend?

30 **MR WILSON:** I think the situation is difficult to compare.
31 The reason for that is that there have been really big

1 structural changes in the gas industry in that time.
2 There was a time, for example, where NGC was vertically
3 integrated, our utility business was based up in Hamilton,
4 it was called Gas Companies and it managed the
5 distribution networks and it also had a retail arm. So
6 that business was a traditional utility style business if
7 you like. But what's happened now, of course, is that the
8 assets tend to be owned by one company and the retailing
9 tends to be done by another company, and in fact the trend
10 we've seen is that most of the retailing is done now by
11 the so-called gentailers.

12 **MR STEVENS:** From NGC's perspective are you having to make
13 more investment now than you did previously?

14 **MR WILSON:** What we're having to do now is we've found that
15 generally speaking the retailers aren't interested in
16 growing the gas market. They're very interested in trying
17 to improve their cut of the pie, if you like, but they're
18 not interested in growing the pie. The reason for that is
19 it's a very difficult thing to grow that pie. So what
20 we've found is that we've had to make that investment so
21 we have staff that are dedicated to identifying
22 opportunities in the gas market and developing solutions
23 for those.

24 **MR STEVENS:** Does that include offering different prices to
25 new customers as opposed to existing customers?

26 **MR WILSON:** Yeah, I mean certainly any customer, you know, any
27 large customer anyway is very likely to have an
28 alternative fuel opportunity, so that would be part of the
29 deal in supplying the customer, yes.

30 **MR STEVENS:** What I was trying to understand was this new
31 world order that we seem to be moving from, as Mr James

1 mentioned before, from one period to another period to
2 another period. I was trying to have an understanding on
3 the effect that it had on the distribution side of your
4 business as opposed to the transmission side, and if you
5 saw any marked differences in the way you operated.

6 **MR WILSON:** I think, yes, we have seen market differences in
7 the way we operate. As I said before, we were vertically
8 integrated and we did the retailing ourselves. Now we
9 find that the retailers aren't interested in growing the
10 market and we have to make the effort to see that the gas
11 market does continue growing.

12 **MR STEVENS:** That's through price and through investment?

13 **MR WILSON:** There's only so much influence we can have on
14 price. Generally speaking -- well, the transmission price
15 is a small component of the delivered price, the network
16 price tends to be a larger portion. But obviously we
17 can't dictate the final price that the retailer will offer
18 to the customer, but we can have an input into the price,
19 yeah.

20 **MR STEVENS:** Thank you.

21 **MR WILSON:** Moving on, on the next slide we have the table of
22 the network asset ODV and you'll see that on the networks
23 there is also optimisation, about 4 percent of the asset
24 is optimised out and there is also some economic value
25 write-down, about 2 percent in this case.

26 Summarising the distribution investment risks, the
27 demand side risks include the availability and the price
28 of gas, competing fuels, we've talked quite a bit about,
29 electricity, LPG, fuel oil, wood waste, industrial and
30 demographic trends and also the behaviour of the
31 gentailers who are the major retailers in the market now.

1 Just as in transmission NGC recognises that it does
2 need to continue taking risks in this market if it's to
3 grow. We certainly need to continue investing in new
4 reticulation if we want our residential customer base to
5 grow.

6 **CHAIR:** What does your investment profile look like over the
7 last say five years? Has it changed significantly or?

8 **MR WILSON:** I think if you looked at the network business you
9 would find that we continue to invest at about the rate of
10 depreciation. So about 4 percent a year. And no, I don't
11 think it's changed substantially, except maybe to say that
12 in the last year there's been perhaps an exceptional
13 amount of new reticulation opportunities just because of
14 the housing market boom. You might find that it's been
15 higher over the past 12 months.

16 **CHAIR:** The housing market boom's been going on a long time
17 hasn't it, but you think it's been exceptionally high in
18 the last 12 months?

19 **MR WILSON:** Yes, probably not that significant, I would say
20 that the investment in new reticulation if we look back
21 you'd probably find it's about 4 percent a year, but we
22 can supply you with those figures.

23 **CHAIR:** I think that would be good. On the transmission side,
24 what does the profile look like?

25 **MR WILSON:** It's very very different on transmission because
26 the situation in transmission is that new investment
27 opportunities don't come up that often, it's not that
28 often that we're laying a new pipeline to Gisborne or
29 Northland and in fact it's a long time now since we've
30 made a significant major pipeline investment. The last
31 major pipeline investment I think would have been looping

1 the pipeline into Auckland and developing our Rotowaro
2 compressor station at the top of the Maui pipeline.

3 Just summarising the presentation. Gas is not a
4 commodity in New Zealand. The transmission pipelines in
5 New Zealand are risky investments, so are the distribution
6 pipelines.

7 We talked briefly about innovation. Perhaps I could
8 have talked more, the graphic there is a picture of one of
9 the new greenhouse developments south of Auckland. That's
10 quite a good example of going back to your question about
11 how things have changed. NGC as a distribution operator
12 developed these opportunities, they haven't been developed
13 by a retailer. NGC worked closely with the industry to
14 develop the technological solutions that would allow gas
15 to be supplied into these major greenhouses and we have
16 achieved quite significant growth in our networks,
17 particularly south of Auckland as a result of that.
18 That's an example of how it's increasingly important that
19 we develop innovative solutions to encourage the use of
20 gas. Thank you.

21 **CHAIR:** Thank you very much for that. It's always very
22 interesting and I should note that the visit that you
23 hosted for us to the network, it really makes it much
24 easier for us I think when we have presentations such as
25 that, and we do have some lovely photos in yellow jackets
26 and hard hats as well, but that was very useful. For the
27 sake of time now I'd like to turn to our external experts
28 I think and take questions.

29 **MR SELL:** Thanks Madam Chair. I have a question, Mr Wilson,
30 on your pricing. Just a question of clarification I
31 think. So there's the capacity reservation fee, the

1 throughput fee was the other one.

2 **MR WILSON:** That's right.

3 **MR SELL:** It sounded to me as if that was essentially a
4 balancing item in striking your tariffs. I just wonder if
5 you could explain what's it balancing, is it balancing up
6 to the desired revenue requirement of the business in
7 total, or just for that tariff component of your business?

8 **MR WILSON:** The former now. It used to be different prior to
9 99. When we were recasting the tariff each year,
10 throughput fee was just recovering the non-asset cost.

11 **MR SELL:** Okay, so it's recovering essentially everything
12 that's not recovered under the capacity reservation charge
13 for the whole of the NGC, or transmission -- sorry was
14 this a transmission charge or distribution?

15 **MR WILSON:** Transmission. Sorry, in distribution the pricing
16 structure is different. Basically in transmission there's
17 a fixed and a variable price, the fixed price being the
18 capacity reservation fee whereas the retailers reserve
19 their space in the pipeline, if you like, and the
20 throughput fee is a variable fee.

21 On the networks there's also a daily fixed charge but
22 it's a much smaller proportion of the total charge and
23 there's a variable price for each different category of
24 customer, so there's a different price, for example, for
25 residential as from commercial and industrial and I think
26 you'll find that that's generally the situation across all
27 the networks. I mean Vector and Powerco and Wanganui Gas
28 and NGC.

29 **MR SELL:** So just following through on that, if we just take
30 the transmission business, I think you said the tariffs of
31 some of your market are being set effectively on the value

1 basis, based on the net back effectively from the
2 alternatives they have available to them. But overall for
3 your transmission business, and putting aside for a moment
4 the fact that you may have different views from the
5 Commission on WACC or acceptable cost levels and so on,
6 would you say that you're setting your prices on a similar
7 basis to the way they would be set if you were being
8 regulated? Are you attempting to mimic that in any way?

9 **MR WILSON:** No, I don't think it would be the same. If we
10 were regulated I think we'd have much less freedom to
11 negotiate prices than we do at the moment.

12 **MR SELL:** I guess I'm thinking more about the overall revenue
13 level of the business that you're trying to achieve rather
14 than the specific tariffs, customer by customer tariffs.

15 **MR WILSON:** Would the overall revenue requirement of the
16 business be different if we regulated than now?

17 **MR SELL:** Mmm.

18 **MR WILSON:** I don't believe so, I don't believe it would be
19 significantly different.

20 **MR SELL:** So it's that kind of cost build-up model that you're
21 trying to replicate internally at the moment.

22 **MR WILSON:** I think we believe that we're endeavouring to
23 target a fair return on our ODV valuation and I think that
24 that would be the same whether we were regulated or not.

25 **MR SELL:** Okay, thanks. Just one other issue that you raised.
26 The time period over which you try to, or you aim to
27 recover your investments, I wonder if you could just
28 comment on that aspect of setting your revenue
29 requirement.

30 **MR WILSON:** Sure. I tried to make the point a couple of times
31 that these are very long lived assets. We assume a life

1 of 65 years and we will only achieve a return of our
2 investment and a fair return on the ODV valuation if we
3 get the price throughout the life of the asset and that's
4 the difficulty with having pipelines such as the Waitoa
5 pipeline, say, for a period of 10 years there. Obviously
6 there wasn't enough revenue being generated off that
7 pipeline to justify the capital cost. So if we had been
8 under an ODV valuation during that period we'd have
9 written down the value and we'd only have been recovering
10 on that written down value.

11 **MR SELL:** Okay. I understand well the dilemma you have here
12 because if you set your pricing based on 65 years then the
13 risk is only ever downwards isn't it?

14 **MR WILSON:** Yes.

15 **MR SELL:** I think you also referred to making investment
16 decisions on a 20 year timeframe, in which case
17 potentially your risk is a little bit less, but then you
18 have the other side of the dilemma which is that if the
19 customers carry on for 65 years you potentially over-
20 recover for 45 years.

21 **MR WILSON:** Yes, when I was talking about the 20 years I was
22 talking about residential reticulation. So what we're
23 trying to do there is to get a positive NPV over a period
24 of 20 years. Because of the discounting, any revenue
25 beyond that 20 years is fairly well irrelevant, it is just
26 largely discounted away, so I don't think that really is a
27 significant issue in terms of those investments.

28 **MR SELL:** So your tariffs, even for them, are still set on a
29 60 year basis let's say?

30 **MR WILSON:** That's right, yes.

31 **MR SELL:** Okay, thanks for that.

1 **MR WYDEVELD:** I just wanted to ask a question on capital
2 contributions from your customers on the distribution
3 network. In submissions I think you provided a few
4 examples for residential customers and the argument was
5 that maybe you could get 3 or \$400 out of them, possibly
6 as a capital contribution. I just wanted to get a feel
7 for maybe the size of that. In terms of maybe a
8 percentage of total connection costs, what does that
9 represent, or, yeah, what proportion does it represent in
10 contributions?

11 **MR WILSON:** The average cost of connecting a residential
12 customer is around \$1,000.

13 **MR WYDEVELD:** Roughly around 30% then. Okay, how do you
14 account for that as well? Do you just roll it into the
15 asset base, the contribution or?

16 **MR WILSON:** No, I'm not sure what exactly was said in that
17 submission, but currently the situation is that as long as
18 the customer is installing a certain amount of gas
19 appliances we don't charge any contribution. So generally
20 connections to our networks are free. There are some
21 exceptions. If it's a particularly long driveway, for
22 example over 20 metres, we charge a little extra for that
23 extra distance, but generally speaking connections to our
24 network are free.

25 **MR WYDEVELD:** Okay, thank you.

26 **DR HODGSON:** Just to add on there, the point about the capital
27 contributions was directed with relation to people
28 preparing subdivisions, developers. As Ian says, usually
29 with the residential customers they have a free
30 connection, so there's no contribution from them.

31 **MR WILSON:** If I could pick up on that point, that's a very

1 good point, Paul, that I'd forgotten to develop earlier,
2 that's another significant difference between our business
3 now than a couple of years ago. A couple of years ago the
4 question of paying a contribution to a developer just
5 never would have arisen. But we find now that first of
6 all developers are very much inclined to, if they are
7 installing gas as well as electricity, to get them both
8 from the same provider, say Vector or Powerco. Where the
9 provider of the gas network is different from the
10 electricity network we find that we're encouraged to pay
11 them a contribution towards getting gas into the
12 subdivision. So that is added to the cost of new
13 reticulation.

14 **CHAIR:** I'd like to thank you for that part of the
15 presentation Mr Wilson. I don't know if you're presenting
16 after the lunch break?

17 **MR WILSON:** No.

18 **CHAIR:** Can I just ask who will be presenting so that I'm
19 aware.

20 **MR BIELBY:** We'll move next to Dr Hodgson's presentation and
21 then the CRA presentation.

22 **CHAIR:** The CRA presentation is separate from the memo that
23 you've handed out to us, the slide?

24 **MR BIELBY:** Yes.

25 **CHAIR:** The CRA presentation will probably happen after the
26 afternoon tea break I suspect, okay. All right, unless
27 there are any matters you want to raise with us before
28 lunch.

29 **MR BIELBY:** None thank you.

30 **CHAIR:** Thank you once again and we'll adjourn now until
31 2 o'clock, thank you.

1 **Lunch Adjournment from 1.00 pm to 2.05 pm**

2 **CHAIR:** Okay, I'd like to reconvene this session with NGC and
3 ask you to please introduce the next speaker, thank you.

4 **MR BIELBY:** Thank you Chair. We have Dr Hodgson on my right,
5 Andy Nicholls on my left. Dr Hodgson will lead the
6 presentation. We're at section 3, the business concerns
7 with the model which is at page 23 of your materials.
8 Thank you Dr Hodgson.

9 **DR HODGSON:** What I'm going to discuss I think is probably
10 fair to say a business perspective on the model the
11 Commission's using. Later you'll hear from CRA who will
12 discuss, if you like, the more fundamental economic
13 arguments. We've also set aside, if you like, the WACC
14 issues we set aside for LECG to discuss and also the
15 issues about how one might do benchmarking or productivity
16 studies have been set aside for PEG to discuss. So rather
17 than delve into the detail of those aspects we'll leave
18 those for those sessions for the experts to address.

19 What I'm going to talk about is really a perspective
20 on the overall approach and then the actual approach
21 that's been applied in terms of the net acquirers benefits
22 test in the way the Commission has applied it, or
23 presented it.

24 Mr James hasn't been before the Commission, but myself
25 and Steve have been before and I guess we approach this
26 process with the view the usual process that the
27 Commission uses in its inquiries and that being one of a
28 forward-looking approach as the Commission has presented
29 looking at a factual and a counterfactual and how things
30 pan out going forwards. That was indeed the approach used
31 in the airports inquiry. It was actually a two part

1 assessment in that inquiry where you look backwards and
2 then you look forwards to see if there would be benefits
3 from control.

4 We therefore, having read the Draft Report, end up at
5 the position of this first question, it's a bullet point
6 here and I will address it here. Looking at the model
7 it's not clear whether the approach to analysis is trying
8 to generate an average year of benefits to inquirers or in
9 fact to provide some form of forecast. Just as with the
10 airports inquiry the recommendation was made on the basis
11 of looking forward. It's not clear to us. Why I'd say
12 it's not clear, the point we wish to make apply in both
13 circumstances. It's a question of how you present or
14 communicate the issue that we're trying to make.

15 Just to expand on this, if the model is trying to
16 generate an average year, which would be subject to the
17 benefits of control, or would represent the benefits of
18 control, then it would appear to us that the point of
19 taking a longer time period is to generate a more robust
20 average. If that's the case then, if indeed it is to
21 represent an average, you would need to correct for one-
22 off events or what you consider to be non-repeatable
23 events so that a mathematical bias is not introduced into
24 the analysis.

25 It would also need, therefore, to take some
26 consideration of the fact that fundamentally the market
27 has changed and therefore the situation will not be the
28 same. Phil showed the chart of transmission volumes
29 increasing significantly in the early period, and then
30 going forward we have quite a different profile. So there
31 is another mathematical issue in terms of how you might

1 prepare an average, if that indeed is the case. If on the
2 other hand it's a forecast, that presents another set of
3 challenges.

4 We would submit that if we were to take a forward-
5 looking approach, then the benefits of control, if you
6 like, or the assessment of whether control should be
7 introduced should actually use only a forecast data rather
8 than the whole period. By using a whole period, if that
9 is the interpretation that you're trying to smooth out
10 volatility or anything else such as that, you might get in
11 the -- by having a shorter time period, then in fact it
12 appears that you are projecting a 12 year period forward
13 from today. In other words, you're saying I'm standing in
14 1997 looking forward to see if there are benefits to
15 controlling the gas industry.

16 Now again if that is the interpretation, you would
17 need to correct for behaviours which have occurred which
18 would be different had we been under price control. I
19 will address some of those as we go through my points
20 below.

21 What I would say before I go into the list of issues,
22 is that we do believe that the forecasts we provided to
23 you are the best estimate of the future in terms of -- the
24 papers we provided the Commission represented what went to
25 the board. They included a reference case which is the
26 situation which we use to fill in the 70E returns. They
27 also showed a growth case and they showed a low growth
28 case or a worst-case, if you like.

29 Clearly as a business we don't know how the future's
30 going to unfold and it's certainly a theme of what we've
31 heard so far and we'll hear from me and we will hear from

1 CRA that the future is uncertain and we quite willingly
2 say we can't predict the future. But taking that into
3 account in terms of doing a model, one has to be sure that
4 what one is firstly looking at is robust evidence that
5 control is necessary, but also a certainty that benefits
6 can be achieved by imposing control and in particular the
7 CRA discussion later on will address squarely the point
8 about volatility looking forward and actually offer an
9 alternative model which allows assessment of how
10 volatility may be represented in a model. But I'll leave
11 that to CRA to talk to.

12 What I'm going to talk to is simply a list of points
13 which we believe need to be either modified, improved upon
14 or corrected within the Commission's framework which is
15 the net acquirers test and using the Commission's
16 parameters.

17 **CHAIR:** Can I just interrupt you for a minute and I want to
18 pursue this question about whether it's appropriate to use
19 past data as well as forecast data and I want to be clear
20 what your submission is. Is it your submission that under
21 no circumstances is past data relevant to an inquiry such
22 as this? Or is it your submission that because market
23 circumstances have changed so significantly that it's not
24 relevant?

25 **DR HODGSON:** No, I think it's fair to say that most people
26 would think that there is useful information in past data,
27 we're not saying that's not appropriate. And one of the
28 key pieces in there is that there has been a lot of
29 volatility in the information. What I'm saying in terms
30 of assessing benefits on a forward-looking basis, in our
31 view the best interpretation of the past data is what has

1 been encapsulated and what we put to the board and what we
2 have put to the market in terms of our forecast looking
3 forward.

4 If you recall in the Airport Inquiry the Commission
5 looked backwards to get an understanding of what was going
6 on in the market but the recommendations on control were
7 based on the forward-looking years within the analysis.

8 **CHAIR:** So in principle you don't have a problem with the fact
9 that past years might have some information value, you
10 yourself think some of it is embedded in your forward
11 forecast?

12 **DR HODGSON:** Yes, that's why I guess I'm raising the issue,
13 that if indeed the Commission was attempting to create an
14 average representative year, then that's a certain
15 approach, but it would require correction so there's not a
16 mathematical bias introduced by one-off events, as opposed
17 to simply generating an average.

18 **CHAIR:** Okay, we might want to come back to this issue, but I
19 just wanted to be clear what the submission was at this
20 stage, thank you.

21 **DR HODGSON:** The list of issues here I won't read out the
22 chart, people can read that. What I will say is that when
23 I get to the last slide I will actually demonstrate the
24 impact of these key concerns on the Commission's model and
25 we believe on what the Commission's recommendation should
26 be.

27 The Commission obviously, and we accept the point that
28 it has to have some form of model for making its analysis,
29 that's not in dispute, and we recognise that it is a
30 difficult task, there's limitations on the estimates that
31 are available, the data that's available, and we would

1 note the quote here that the Commission has in its Draft
2 Report about what exactly constitutes normal returns, and
3 I won't read that out. It represents what I was trying to
4 express on the previous slide, that where there are
5 significant singular events, if you are indeed preparing
6 an average they can bias the result substantially, and
7 there's one or two of these which we believe would
8 fundamentally change the Commission's recommendation in
9 respect to NGC.

10 Dr Lally also warns in his work for the Commission
11 that the asymmetric risks and in particular in our case
12 stranding risks present particular difficulties and he
13 suggests a particular approach for dealing with these
14 biases if they are considered to be slight. In our view
15 it's not reasonable to consider an impact of an issue
16 slight if it indeed makes a difference between a price
17 control recommendation or a no control recommendation.

18 So I put those up simply to identify that we have got
19 common ground, we do accept that it's a difficult
20 situation to assess returns on, there is limited
21 information for all parties, but we would urge that we
22 need to move forward on a robust basis.

23 Asset stranding, this is an issue you heard from Ian
24 about this morning. In our view, and it is a significant
25 issue, the threats to us of inter-fuel competition are
26 very real. We do table an example in our confidential
27 version of our submission which is imminent on our
28 pipeline, a whole section of a line that will be stranded.
29 It's not something that happens occasionally to gas
30 networks, it's a very real risk.

31 In some ways the best place for that risk is to be

1 borne on the company. The company has the best knowledge
2 and best skill of anyone in the market, I believe, to
3 actually try and manage those risks. In a regulatory
4 sense it places the incentive on the asset owner to avoid
5 stranding risks, firstly to avoid stranding risks.
6 Obviously if we price too high and gas use goes somewhere
7 else or demand goes elsewhere, we're the ones that are
8 left with the pipelines in the ground.

9 Alternatively where there have been stranded assets
10 the incentive is on the asset owner to actually find
11 alternative economic uses for those assets. If the
12 incentive wasn't on the asset owner, then consumers would
13 be exposed to the volatility in costs of stranding. I
14 don't think that's, you know, largely speaking I don't
15 believe the consumers would have the resources to manage
16 those risks and neither necessarily should they.

17 The ODV process as a basis of the regulatory regime
18 reflects this stranding. Ian outlined the stranding, the
19 approach to how you represent stranding. First the system
20 is optimised, so that's a technical decision, if you like,
21 if we need to supply a certain area do we need a 4 inch
22 pipe, a 2 inch pipe or do in fact we need to change the
23 size of the piece of pipe and introduce a compressor into
24 the ideal system and that gets around to the, you know,
25 the question of consumers not having to bear the costs of
26 imprudent investments or the changes in demand by other
27 consumers. Where that doesn't fully capture the stranding
28 then there's an economic value adjustment which is also
29 applied to the system valuation. That leads us to, as we
30 know, to the ODV numbers and that's the valuation on which
31 we seek to get our return.

1 I'll turn to the first of the significant issues,
2 which I believe would change the Commission's results
3 singularly. The Kapuni North line was built around 1969.
4 The Maui field was subsequently developed and that
5 pipeline was stranded when the Maui pipeline was put in
6 place. Just to give you an idea of the sizes, the Kapuni
7 North line is an 8 inch pipeline, the Maui pipeline for
8 much of its length is a 30 inch pipeline, in parts of
9 Taranaki it's larger than that.

10 So as you would expect our pipeline was stranded, with
11 the ODV process it was written out of the asset base, so
12 NGC was not recovering any of the costs of that pipeline.
13 In 2001, though, people started coming to us and saying we
14 want to get some gas for the -- it's not Maui gas so it
15 can't go through the Maui pipeline, can you help us out?
16 Two or three other parties, which I'm not sure if I have
17 the permission to use their names, have spoken to Swift
18 and the Swift gas from the Rimu field was sold to Genesis
19 for use at Huntly Power Station and the only way that
20 could actually get to market, in other words be sold to
21 Genesis, was if the Kapuni North line was used.

22 So by 2003 NGC had fully sold the capacity, as Ian
23 described, it's probably the most heavily utilised part of
24 the system. So it was deoptimised when we did a valuation
25 in 2003 and the Commission has seen that and in the work
26 Mr Sell has done. So there was a \$50 million increase in
27 our valuation that was due to that pipeline being
28 deoptimised, so, if you like, unstranded.

29 **CHAIR:** When you optimised it out, how much went off your
30 asset base?

31 **DR HODGSON:** In the 1994 ODV I think it was \$40 million.

1 **CHAIR:** Thank you.

2 **DR HODGSON:** The Commission has the 1994 valuation, it's in
3 there. The model treats this the same as the revaluation.
4 I believe this is an inappropriate treatment and this
5 assumption alone leads to a recommendation for control in
6 NGC.

7 If we go back to my earlier proposition, if indeed the
8 model is supposed to be an average, then clearly, and
9 recognising the quote from the Commission on the previous
10 slide, this singular event introduces a mathematical bias
11 to the analysis. It's a \$50 million one-off event that
12 is -- you know, if you test the sensitivity for it is what
13 I'm saying, the numbers drop out so that you would
14 recommend no control on a net acquirers basis.

15 **CHAIR:** Does it matter whether it's a one-off event? Isn't it
16 just whether it represents value -- an asset with value to
17 the company?

18 **DR HODGSON:** I guess if I can go -- in terms of assessing
19 normal returns, and this is a quote from the Draft Report,
20 I believe that that one-off event does unduly influence
21 the Commission's recommendations.

22 **CHAIR:** We could make that argument about every investment
23 you've ever made. When you invest in a particular
24 pipeline and be doing the same pipeline over and over
25 again. I must not understand the way you're interpreting
26 "singular event" here.

27 **DR HODGSON:** Well shall I say, if I take the other
28 interpretation and I guess this is part of the process
29 that we were in, if indeed the 12 year period that's being
30 assessed is a forecast of a control situation, so you're
31 trying to generate an average looking forward, then there

1 are two behaviours that NGC would have demonstrated in
2 this regard. Firstly it would have sought from the
3 Regulator, whoever the Regulator was, an ex-ante
4 dispensation for that pipeline coming back into use, we
5 would have said basically we intend to start using this
6 pipeline again, is this going to be treated against us in
7 a regulatory sense? If the answer --

8 **CHAIR:** What do you mean by "treated against us"?

9 **DR HODGSON:** If the understanding is going to be taken as
10 economic income, and that obviously, you know, to put it
11 in very blunt terms, the \$50 million, if we're expected to
12 reduce our revenue by \$50 million for a one-off event then
13 that's not sustainable from a business cashflow
14 perspective. We can't turn around to customers and say,
15 you know, we couldn't wear that from a business sense, so
16 we would turn around to them and say if we are not going
17 to get dispensation from the Regulator we will not bring
18 that asset back into use.

19 **CHAIR:** Why would you not if you earn WACC on it in the
20 future, why would you not bring it back in? If it's
21 economic to bring it back in why would you not?

22 **DR HODGSON:** If it's economic to bring it back in, the
23 interpretation of your model is that we need to reduce our
24 revenues by \$50 million to bring it back in.

25 **MR STEVENS:** Are you suggesting that we haven't symmetrically
26 dealt with it because the write-down was outside the
27 review period of the model and the write-up is in the
28 review period, is that what you're suggesting? That's the
29 point you're making?

30 **DR HODGSON:** Yes, it's a singular event within the model which
31 is unduly influencing the result.

1 **CHAIR:** Surely the write-down -- you wrote it down when you
2 took it out, right, you wrote down the asset when you took
3 it down and you counted it as a revaluation loss.

4 **DR HODGSON:** No.

5 **CHAIR:** It didn't appear in your books in any way when you
6 optimised it out. You've showed us cases where you
7 optimise out assets and it clearly showed up in your asset
8 base, did you optimise it out?

9 **DR HODGSON:** The optimisation, the stranding event occurred a
10 long time ago.

11 **CHAIR:** Yes, but when it was stranded I asked you what loss
12 was it and you told me, I believe you told me it was
13 \$40 million.

14 **DR HODGSON:** It was \$40 million in 1994.

15 **CHAIR:** So that would have gone through your asset base at
16 that point.

17 **DR HODGSON:** The valuation, yes.

18 **CHAIR:** And we accepted whatever gains and losses there had
19 been from that earlier period for the purposes of our
20 analysis.

21 **DR HODGSON:** But that loss is not recovered ex-post, this is
22 the point I'm saying, that we can't go around to our
23 customers and say that asset has got stranded. A good
24 example is the one that we have in there that's about to
25 happen on that particular line, that when that asset is
26 stranded and it's written out of the asset base we cannot
27 go around to the customer and say sorry, we've just lost
28 \$X million on that asset, we're going to put up your price
29 to recover that, because that amount of money will show up
30 as excess returns, because it's written out of the ODV.
31 When we're assessed on the ODV basis we will be getting,

1 you know, X plus 1 percent rather than getting X percent
2 return, which will be judged to be an excess rate of
3 return.

4 **CHAIR:** It strikes me, and I'll give careful thought to your
5 submission, but it strikes me that the Commission has
6 approached this in a symmetrical way. To do anything
7 other than what we've done would have opened up a
8 discrepancy in terms of treatment. I'll give careful
9 thought to it, but I have to say I am having some
10 difficulty understanding the submission. I make that
11 point not because I've formed a final view on it, but I
12 just want to be clear with you so that if there are any
13 further submissions you want to make to us on this point
14 to help us understand your point you can do so.

15 **DR HODGSON:** CRA will be addressing this as well. The
16 assumption ex-post recovery we think just doesn't hold for
17 stranding events.

18 I've provided the example and it sounds as though the
19 members are familiar with it, to try and illustrate the
20 impact of a shortened assessment period on the
21 Commission's model, but I've provided a simple model here,
22 and we won't go through that in detail, it's described in
23 our written submission. But I would draw people's
24 attention to the question, and this reflects again the
25 question of mathematical bias, that table D and table B
26 are identical except for the fact that the sample period
27 differs.

28 By the sample period being different, so within that
29 model the treatment of revaluations and devaluations is
30 pushed through as income, it's taken to be completely in
31 the way that it's presented in the Commission's model, but

1 by having a different sample period we see an excess
2 profits finding between those two tables. Even when we go
3 into subsequent tables in that model and it does take some
4 time to sit down and look through it, with reduced
5 revenues in the shortened assessment period, you can still
6 end up with deoptimisation leading to an NPV greater than
7 zero when again you are looking over the shorter period.

8 Will there be future changes in stranding? Well,
9 implicitly, and I think this is implicitly reflected in
10 the model, the terminal value at the end of the study
11 period is the estimate of future earnings, that is the
12 interpretation people put on it. But that number
13 incorporates significant uncertainty and CRA will address
14 this on a more economic basis later in our presentation,
15 or in their presentation.

16 So what are the implementations? We've already
17 addressed a couple of these points. In our view stranding
18 issues should not be treated the same as revaluations. We
19 understand the basis of why revaluations are treated as
20 income, however we believe that optimisation and economic
21 value adjustments require a different approach so that the
22 model better approximates reality. We would say that, and
23 we acknowledge fully, that it's a difficult issue of how
24 to deal with asymmetric risks and stranding risks and
25 accept that. We are simply putting forward the view that
26 ex-post recovery is impractical in reality as any increase
27 to cover stranding costs shows up as a margin over the
28 acceptable return on your ODV assets.

29 So in my view the Commission's model as it puts
30 forward represents two mutually exclusive options. If
31 you're going to make an assumption of ex-post recovery

1 then the excess profit calculation should use a
2 depreciated replacement cost, because you are saying that
3 the company is allowed to recover cashflows that cover its
4 optimisation and economic value write-downs, therefore
5 rather than having ODV in the equation it should have
6 depreciated replacement cost. If indeed you're going to
7 use an ODV asset base then stranding should not be
8 included as income.

9 On a wider front, this issue raises dynamic efficiency
10 issues. As I said earlier the incentive --

11 **CHAIR:** Can I just clarify one thing. When you wrote out the
12 assets did you treat it as a loss?

13 **DR HODGSON:** No, it doesn't go through the P & L, the
14 revaluations do not go through the P & L, they are a
15 balance sheet item.

16 **CHAIR:** You didn't do it at all, you don't do it ever with
17 revaluation, gains and losses?

18 **DR HODGSON:** They don't go through the profit and loss account
19 in the statutory accounts. So they show up in the
20 regulatory accounts, but they don't --

21 **CHAIR:** So the loss showed up in the regulatory accounts?

22 **DR HODGSON:** We were actually under price control at that
23 time.

24 **CHAIR:** What do you mean by "regulatory accounts"?

25 **DR HODGSON:** Since 1997 we've had the information disclosure
26 accounts, so those include revaluations as income.

27 **MS BATES:** That's from historic costs for ODV, is that what
28 you're talking about?

29 **DR HODGSON:** Sorry, no, just ongoing revaluations appear as
30 income through the ARP or RRO formulas, whichever ones
31 they're using.

1 **CHAIR:** Since the disclosure regulations, or they're not even
2 regulations are they in your case?

3 **DR HODGSON:** They are regulations.

4 **CHAIR:** They came about in 97.

5 **DR HODGSON:** Yes, that's correct.

6 **CHAIR:** Since then you've treated these as gains and losses,
7 but the period at which this was optimised out, Kapuni,
8 going back to it, I think at that time that was disclosure
9 regs.

10 **DR HODGSON:** The first major ODV assessment we did was in 94,
11 but the asset was stranded much earlier than that.

12 **CHAIR:** When you did the opening value there was no account
13 taken of the original stranding?

14 **DR HODGSON:** No.

15 **CHAIR:** I see what you're saying.

16 **DR HODGSON:** It's I guess a question of analytical treatment
17 is the discussion. In a wider sense there is a dynamic
18 efficiency issue here which we believe needs to be
19 maintained. It's necessary to keep the incentive, we
20 believe, on the asset owner to use its assets and to avoid
21 stranding.

22 I'll give you a couple of examples here. The Frankley
23 Road pipeline which Ian referred to which runs between
24 Kapuni and the Maui pipeline, and that's where the Darby
25 Road compressor station is which you visited, those assets
26 are optimised out at the moment, roughly \$20 million.
27 There is the potential, and we've raised this as a
28 potential, that somewhere down the line someone will want
29 to develop storage in the New Zealand gas system.

30 The best way to actually present that is for Frankley
31 Road to become what's known as a hub or the central

1 trading point in the system. Logically as the system is
2 configured now that would be the place that you would want
3 to do it. That would then allow the implementation of
4 storage and a wholesale market, if one is indeed needed.

5 Clearly should that eventuate, I'm not saying it will,
6 I'm just saying that these are things people have flagged
7 we need storage in New Zealand to address the question of
8 flexibility, we need a wholesale market, the jury's
9 probably out on that, but certainly if NGC was in a
10 position where it was going to be negatively impacted
11 there wouldn't be much incentive on us to actually want to
12 deoptimise those assets.

13 **CHAIR:** Can I just ask you a question. It's my understanding
14 that in 1997 which is when the disclosure regs come in and
15 it's the cut-off date that the Commission uses in terms of
16 past revaluation gains and losses, 1997 NGCT had a
17 revaluation reserve of \$110 million positive, is that your
18 understanding?

19 **DR HODGSON:** I don't have the figures to hand, but if you've
20 picked them up from somewhere I'll take that as read.

21 **CHAIR:** I'm trying to understand if that is the case, and that
22 but for the decision to treat past revaluation gains has
23 decided to overlook them, they would have been treated as
24 income and that significantly advantaged the analysis of
25 NGCT in terms of your perspective. What I'm not sure of
26 is whether that positive \$110 million is a net number
27 that's taken account of this \$30 million odd that you say
28 was a loss from the earlier period. I may be
29 misunderstanding the two, but I would ask if you could,
30 please, to come back to us on that point. Because I think
31 I'm beginning to understand that point and I'm trying hard

1 to understand the point that you were making.

2 It still troubles me then to say -- I can see the
3 point you're making, but then when I turn myself to what I
4 know we did in the analysis, which is that we took 97 as
5 the cut-off date for past analysis of revaluation gains
6 and losses, and I know, or I believe at that time you had
7 a revaluation reserve of \$110 million that was not taken
8 into account. It suggests to me that you've come out well
9 ahead on this front. So I'd just like your assistance if
10 you could in clarifying that for me. If you can't do it
11 today, in your cross-submission please.

12 **DR HODGSON:** My understanding, though, is that it's a balance
13 sheet item that's not been through the profit and loss
14 statement or indeed the cashflows of the business. You
15 know, there is a question of --

16 **CHAIR:** But the gain wouldn't have either, right?

17 **DR HODGSON:** No, I guess this is what we're getting to with
18 this question of the treatment of stranding is exactly
19 what the impact is on people who, if you like, pay the
20 bills that we send out. I mean, I guess that's what we're
21 trying to get to.

22 **CHAIR:** I may be confusing two different issues, but if you
23 can help me with that I'd be grateful.

24 **DR HODGSON:** I guess just to wind up on the question of
25 preserving the incentive, the Gisborne line has a
26 significant write-down. The electricity system in that
27 part of the country, particularly the networks and
28 transmission system there, is in need of support. There's
29 opportunity for people to look at potentially gas co-
30 generation in that area. In general terms there is a
31 significant amount of optimisation and economic value

1 write-downs that potentially could be addressed through
2 new options if we want to bring assets back into use.

3 To wrap this point up, the stranding on NGCT has been
4 volatile in the past. As percentages, you can see it's
5 down at 29 percent in 97, up to 36 percent, down to 23
6 percent in 2003. Not volatile on distribution, but
7 increasing. The fundamental point is around stranding the
8 future's not certain. And this ties in again with the
9 issues that CRA will make that looking forward and
10 thinking about the benefits of control one has to take
11 into consideration uncertainty.

12 **CHAIR:** I probably should be able to figure this out on my own
13 but I haven't been able to so I'll ask you, and I have a
14 feeling it's one of these obvious things that I should
15 know, but why has the optimisation been so much greater
16 for the transmission business than the distribution?

17 **DR HODGSON:** Partly I would suggest, and unfortunately Ian's
18 not here, he would be better placed, but typically your
19 transmission system going to particular points, if you
20 like, such as a dairy factory or a, one of those other
21 examples or, say, right across the country to Gisborne,
22 you're spanning much longer distances with much bigger
23 pipes.

24 So when you have events like a major customer drops
25 off, the impact tends to be bigger, whereas the
26 distribution network you have, you know, a lot of small
27 consumers. So I mean we've got 56,000 connections on our
28 networks against 12 major connections off the transmission
29 system. But also our transmission system connects to
30 everybody else's networks so we get the cumulative impact
31 of the network business.

1 Also typically networks aren't looped, so where we've
2 got two pipelines into Auckland now, in the optimisation
3 process that's treated as one pipeline of a different size
4 and similarly on the pipelines coming south where they've
5 been looped, where you've had that sort of double up that
6 was built to supply the load growth through the 80s then
7 you're stuck with just having it optimised down to one
8 pipeline.

9 In terms of the Commission's analysis, our views are
10 that taking a forward-looking approach is appropriate.
11 The usual approach of specifying a factual and a
12 counterfactual and looking at the difference between them,
13 and again if we are going to judge that by using past
14 information we have to consider that behaviours would have
15 been different in the past than if we'd been under
16 control.

17 So it's not fair to say that the -- for instance the
18 growth in the market would have been the same if we'd been
19 under price control from 1997. If we'd have been price
20 controlled then and restricted to a certain revenue, then
21 there may have been some growth, but there certainly
22 wouldn't have been the same incentive to grow the market,
23 it would have been a question of, if you like, regulated
24 growth rather than this is fairly explosive growth.
25 Therefore, in terms of this process we believe that the --

26 **CHAIR:** Why would the incentive had been any different if
27 you'd never earned excess returns and the Regulator would
28 allow you to earn a return arguably consistent with what
29 you say you have earned?

30 **DR HODGSON:** I'm saying the growth in the market. I mean we
31 wouldn't have the same shape of gas industry now as we had

1 in the past. Just to take an example, previously when we
2 were under price control we were requested to have special
3 tariffs for co-generation; for instance they weren't
4 allowed by the Commission at the time. Since the period
5 actually that we're looking at here, there has been a
6 growth in special tariffs for co-generation plants which
7 have increased the ODV all volume and, if you like, have
8 benefited everyone because, as you say, we haven't got
9 over the return cap, but we've been able to hold prices.
10 Ian mentioned that in 1999 was the last time we cranked
11 the handle on the allocation model. After that we
12 actually had three years where prices completely were
13 rolled over. If you actually plot transmission prices, in
14 real terms they've significantly reduced since 1997.

15 **CHAIR:** Is that taking account of both components? I thought
16 we heard some heavy qualification of that point
17 eventually. Did I misunderstand?

18 **DR HODGSON:** What happened, since 1999 the reservation fee,
19 the fixed component hasn't changed to this day. Neither
20 component changed for three years, then there was a PPI
21 adjust, then there was a larger adjustment last year. So
22 there has been -- if you like there was a price freeze in
23 toto for three years, well, not the freeze, it was a roll
24 over, because volume growth etc had allowed us to offset
25 increased costs, but now we're getting to the situation
26 where that growth's no longer there in the profile as we
27 saw and so costs have had to move. So, yeah, it's largely
28 how the prices have gone.

29 **CHAIR:** I must have misunderstood the evidence, because I
30 thought he had indicated that the one component had
31 changed in each of the years, but --

1 **DR HODGSON:** Not in each year, in the last two years.

2 **CHAIR:** You say there was three years where there was no
3 change in either component of the pricing?

4 **DR HODGSON:** Yeah. In terms of the long-term fixed contracts,
5 rather than the posted prices, there may have been PPI,
6 you know, inflaters built into the contract, but...

7 **CHAIR:** I'm kind of puzzled by the comment about incentives
8 for growth because I know from our experience in
9 electricity that the companies that are experiencing
10 growth find it quite easy to live within thresholds, the
11 ones that aren't find it a little more difficult; so the
12 incentives to find growth are very strong for them. I'm
13 trying to understand why this might be different, I'm just
14 simply trying to understand the point. I wonder if you
15 can help me out with that a bit more about why there is
16 this issue about incentive for growth under regulation.

17 **DR HODGSON:** Well, not wanting to hark back to the same
18 example but I will, the Kapuni North line, if we had been
19 subject to regulation, price control of some form, and we
20 got to the year 2000 and people started talking to us
21 about whether or not you want to bring that asset back
22 into life, and we're saying well no, we don't believe that
23 we can because the income will be treated against our
24 cashflows and we will breach a cashflow assessment of what
25 we're allowed under regulations, there wouldn't be the
26 incentive for us to bring that asset into use.

27 **CHAIR:** I won't belabour this debate, maybe staff will want to
28 come back to it, but I remain slightly unsure about that
29 part of the submission, but we'll certainly look at it
30 very carefully.

31 **DR HODGSON:** In terms of productive efficiency, as we

1 mentioned on Wednesday, PEG will be discussing, if you
2 like, the details or the mechanics of this. What we would
3 like to talk about is the implications of the approach to
4 productive efficiency, and it's our view, and it was
5 expressed by Phil James in terms of his experience of
6 benchmarking studies. But in terms of robust evidence for
7 assessing the gains under price control, we don't believe
8 that any additional gains can be ascribed to a control
9 factual against a counterfactual of no control.

10 NGC's an investor owned company, listed on the
11 New Zealand Stock Exchange, it has every incentive to be
12 efficient. If it is not efficient it stands in the market
13 as a potential take-over target in terms of commercial
14 reality, if it's not efficient, it faces bypass, it faces
15 inter-fuel substitution, and for the people responsible
16 they face the incentive within a listed company such as
17 ours of actually management change. So at every level
18 there are strong incentives for people to encourage
19 productive efficiency.

20 We understand and fully recognise that there is only,
21 if you like, limited data available to Meyrick &
22 Associates, so it's in no way a reflection on their work.
23 I would say, however, that there are, as PEG will outline,
24 there were some significant factors that weren't corrected
25 for, but again that's an issue for experts to discuss
26 rather than me.

27 The work that we had done by PEG show that NGC
28 distribution is a superior cost performer. 30% lower than
29 US firms. Statistically significant. We're not claiming
30 that your model should say that the counterfactual has a
31 productive efficiency gain over it, but we are saying that

1 it's not sound to say there are additional gains from
2 price control.

3 In the case of NGC transmission, it's simply not
4 comparable to transmission pipelines such as the Moomba to
5 Sydney pipeline. To give a couple of examples of why
6 that's the case, we haven't conducted a study but we
7 believe it is something that can be addressed in a quite
8 straight forward manner.

9 The members, when they visited Taranaki, would have
10 seen a number of large pipelines at the four road(?)
11 mixing station. The Moomba to Sydney pipeline is one of
12 those much larger pipelines. In fact if I sort of
13 illustrate with my body, the diameter of it is basically
14 from the middle of my body to about the end of my hand,
15 that's the sort of diameter the Moomba to Sydney pipeline
16 is.

17 What I've got here is a bit of the pipeline that was
18 cut-off the Pohangina bridge. It's an 8 inch pipeline.
19 Doesn't even get across my body here. The cost of
20 actually supplying gas down a pipeline that big compared
21 to one that big are much greater. On top of that, the
22 Moomba to Sydney pipeline largely runs through the dessert
23 so, there is not the land owner issues that we have to
24 face, we have to control our pipeline regularly. In the
25 case of cross-country pipelines that's aerial patrol till
26 we get down to the point of within Auckland itself,
27 particularly on Hillsborough Road it's patrolled on a
28 daily basis. We have three and a half thousand landowners
29 that we have to deal with in terms of our pipeline.

30 On the commercial side the Moomba to Sydney pipeline
31 deals with one or two large companies that have contracts.

1 On our pipeline we're trying to deal with the allocations
2 and reconciliations of a whole raft of shippers. It's a
3 much more complicated situation. So again, we recognise
4 that there is a limitation to the data and that the
5 Commission is trying to find a way forward but we don't
6 accept that the study can be relied on to assume
7 additional gains, and would submit that productive
8 efficiency should be taken to be the same between the
9 factual and the counterfactual.

10 In fact under control, and this is what we've put
11 forward in our written submission, and it was actually
12 recognised the other day in the discussions here at the
13 conference, that the incentive, as has become apparent in
14 overseas jurisdictions, is for the regulated firm to
15 actually save up its productive efficiency gains in years
16 4 and 5 so that they can use them in the next regulatory
17 period. That's reflected in the CRA model which we say
18 they're much better placed to discuss.

19 Information estimates. These are some of the
20 estimates that we've provided and some which the
21 Commission have worked on. In our view, as we say and
22 have said, is that our forecasts provide the best estimate
23 for the future. We're not saying they're perfect, we
24 fully acknowledge that through the scenarios that we
25 presented to the board that the future's uncertain. It
26 is, however, the information that we've provided to
27 investors and to the market, and it incorporates as far as
28 possible, as we see it, any information that's in the past
29 that can be usefully used looking forward. By not taking
30 a forward-looking approach in the analysis the
31 Commission's model leads to a control recommendation.

1 That will be one of the impacts that I show at the end.

2 Common costs, the Commission has indicated that it
3 intends to adjust the common costs provided by the
4 different companies. We've previously provided an
5 economic report by CRA around the application of ACAM, I
6 don't intend to go over the economic discussion again
7 here. However, I would say that if we had, and we have
8 said this in our written submission, if we had applied a
9 strict ACAM top-down strip off the contestable business
10 approach, then we would have included 100 percent of our
11 actual common costs in our 70E returns. In fact if we'd
12 allocated the common costs on the basis of funds employed
13 we would have ended up with around 62 percent of actual
14 NGC common costs allocated.

15 What we did, however, is actually endeavour to provide
16 a robust and good faith estimate to the Commission in
17 response to the 70E notice. The common costs we've
18 allocated only 54 percent of NGC's total common costs. We
19 believe that's a fair representation.

20 In terms of tax, specifically forecast tax expense, I
21 don't endeavour to debate the issue of the tax shield, we
22 weren't impacted by that, we didn't include interest.
23 However in the process of addressing the Commission's
24 subsequent requests for information it's come to light
25 that the price increases that we notified the Commission
26 of earlier in the year we didn't include the impact of
27 those on the tax expense we forecast going forward. So,
28 if you like, there's 33 percent of each of those which
29 need to be taken as additional forecast tax expense.

30 In the reconciliation process that we're performing
31 for the Commission it also became apparent that on

1 transmission there has been a significant and consistent
2 amount of non-deductible expenditure which has resulted in
3 increased tax over and above the 33 percent. That has not
4 been included in our responses. When I say significant,
5 both those numbers are over \$1 million per annum.

6 It also became apparent that in terms of distribution
7 we underestimated the forecast tax expense. We've
8 provided the detail of that to the Commission staff, we
9 won't labour that here.

10 In terms of the WACC, as I said, the WACC issues have
11 been addressed by LECG. There are two points that I would
12 make from a company perspective. The first one is simply
13 a question of timing. We're now sitting in 2004, Dr
14 Lally's work used 2003 numbers. We believe that the risk-
15 free rate should be updated.

16 Also interestingly the Commission's model assumes a
17 control period of five years but Dr Lally has used a risk-
18 free rate of three years in his calculations, though, if
19 you like, the principles that have been put forward in
20 terms of WACC indicate that the risk-free rate should
21 equate to the regulatory period. So we're just
22 highlighting that as something we believe should be
23 addressed.

24 Some other what we believe to be significant concerns,
25 and when I get to the last slide where I discuss the
26 impact of these concerns on the results, we don't go into
27 the detail of a lot of these. A lot of these are actually
28 represented in our written submissions. They're also
29 represented using the different WACC levels and using the
30 different tests that the Commission has before it. All I
31 will talk about in a few minutes is simply the net

1 acquirers test.

2 But the sale of assets, and this relates to our
3 distribution business, we don't believe that the gain
4 should be included against the distribution business. The
5 question of whether you sell something for more or less is
6 simply a question of a market transaction. If the
7 Commission feels that that reflects a view by the
8 purchaser of inappropriate valuation, then even within
9 this process, that is being addressed through the
10 assessment of the purchaser's asset base.

11 So those assets may have been below ODV, above ODV, I
12 don't know. The gain was related to the book value and
13 simply shows that we sold an asset for more than we had
14 it. It's not a question of NGC distribution's excess
15 profits.

16 Valuation of easements. As we've submitted to the
17 Commission before, we believe that a replacement cost
18 should be used. These are a significant and valuable
19 asset for transmission system, and fundamentally you
20 couldn't run this system without them. We recognise the
21 Commission has a different view, so we won't labour the
22 point here.

23 We have outlined a more appropriate approach to
24 indexing back for the Commission. The Commission assumed
25 that all the easements were in place in 1974, that's not
26 the case. There was a large increase in the length of the
27 transmission system through the 80s. We've indicated an
28 approach where two-thirds of the easements are indexed
29 back to 1983 and one-third back to 1974.

30 The costs of control are another place where we differ
31 from the Commission and it's not of the same order of

1 magnitude as some of the others but it's one that I will
2 raise. This inquiry is a decision process and we all
3 accept that. It's not the one that would establish the
4 control regime and the Commissioners know better than I
5 the extensive process that's been gone through in
6 establishing the electricity lines business control
7 regime.

8 In our view this inquiry is simply part of the light-
9 handed regulatory regime. Every so often people would
10 want to check whether or not returns have been appropriate
11 and it's NGC's position it's fully happy to engage in that
12 process. However it is an ongoing cost of business, it's
13 like an any other business event and so the direct and
14 indirect costs of this inquiry should remain in the
15 Commission's model as opex.

16 If you are looking at the costs of setting up a
17 control regime there will be another, if you like,
18 engagement with whoever the relevant Regulator is should
19 there be a control decision. If you like, that is numbers
20 that I think the Commission have included in their model
21 as the direct costs of control.

22 The last point I would make on that is that setting
23 aside that we don't agree with the approach that's been
24 made in the model, the Commission actually deducts more
25 from the opex than it subsequently puts forward as being
26 the cost of control, and I don't think that's tenable. If
27 the operating expenses, the indirect ones, people like
28 myself who have been in the business and are working on
29 this, there is direct costs which are the ones where we've
30 paid external parties for assistance, those costs are
31 actual and have been incurred. If the Commission wants to

1 say that they should be a different number, we can
2 understand how the Commission might get to that position,
3 but it should then only subtract that number from the
4 actual opex of the company in terms of doing the
5 assessment.

6 So where does that leave us? As I said, we've put a
7 raft of numbers in the written submissions and also in the
8 detail of the CRA submission. We don't intend to go
9 through them all here. What I have done here is actually
10 put up a number of significant ones. I've put them up on
11 the basis of their calculation on a net acquirers test as
12 put forward by the Commission and at the 75th percentile
13 of the Commission's WACC number.

14 The question of whether you're taking a forward-
15 looking approach, in other words if we were to apply the
16 same process as was applied in the Airports Inquiry where
17 we'd look at the past to inform the decision and then look
18 at the benefits of control on a forward-looking basis, the
19 Commission's baseline is at \$3.3 million, net acquirers
20 benefit. Simply by switching to a forward-looking
21 approach on transmission reduces the net acquirers
22 benefits to \$495,000 per annum.

23 I would make the point that given the difference in
24 size, say, between NGC transmission and Wanganui Gas, in
25 the case of Wanganui, \$200,000 was considered not
26 consequential to encourage a control on Wanganui, this is
27 a much smaller percentage. That is one singular issue.

28 In terms of the Kapuni North -- and these are treated
29 separately here, and they're also illustrated separately
30 in our submission, the individual impacts. If the Kapuni
31 North pipeline issue was -- our view was accepted, simply

1 taking that revaluation out changes the results to be a
2 negative benefit to acquirers. I would say, reflecting
3 back at my earlier position, that having a singular event
4 change the decision between imposing control or not
5 imposing control I think is significant in terms of the
6 task that the Commission's faced with here.

7 If we combined all the other adjustments that we've
8 outlined in the written submission I would say, and I put
9 the proviso in brackets here that it's on the Commerce
10 Commission's model, it's not possible to just do that on a
11 forward-looking basis, so this is looking over a 12 year
12 period, combining all those adjustment results in a net
13 acquirers benefit of negative \$2.2 million. It's a very
14 big swing. This is at the 75th percentile. If it's at
15 what we'd describe as a more realistic WACC number of 9.2
16 percent then the net acquirers benefit of controlling
17 NGC's transmission is significantly negative.

18 In terms of NGC --

19 **CHAIR:** I wonder why your shareholders haven't punished you in
20 your share price for under-achieving what would reasonably
21 be expected by the market, when I see the number next to a
22 more realistic WACC.

23 **DR HODGSON:** For quite a while NGC's share price was
24 reasonably low. It's only recovered on, shall we say,
25 speculation of what was going to happen to us in the last
26 few months. I think with a company such as ours it is
27 difficult to separate out the impacts of the particular
28 businesses. Obviously there's a lot of uncertainty around
29 wholesale gas with the Maui redetermination. When the
30 Draft Report came out, as Phil noted, there was like an
31 immediate downwards impact on the share price, but then

1 the speculation about Contact Energy and us possibly being
2 up for sale I think threw the price up somewhat.

3 **CHAIR:** I just wanted to come back to your comment you made on
4 common cost allocation and you indicated that in your 70E
5 responses you put forth a percentage of 54 percent of
6 actual. I wondered if you could give us a better feel for
7 the justification for that.

8 **DR HODGSON:** Okay, that's by combining the transmission and
9 distribution; the staff asked us, you know, what do these
10 numbers add up to? Putting the two businesses together
11 that adds up to 54 percent.

12 **CHAIR:** 54 percent of what?

13 **DR HODGSON:** Of NGC's total common costs. So what we did, and
14 the regulations have been, shall we say, booked for being
15 updated for a number of years, so it was clear that ACAM
16 was going to be implemented as it has been for
17 electricity, we built a model of what we saw as a
18 realistic stand-alone -- NGC transmission in a realistic
19 stand-alone NGC distribution company.

20 So if you look at a transmission company of this size
21 that this business would be, the easiest example is in
22 terms of describing it in the case of the legal staff we
23 have, not wanting to pick on the lawyers but it just makes
24 it easier. Steve here is the company secretary and
25 General Counsel. We also have three other lawyers. So
26 when we were looking at the NGC transmission we said would
27 you have four lawyers in the company, and we said well no,
28 we'd keep Steve but we'd probably only have one other
29 solicitor.

30 So in terms of designing it, and we went through all
31 the parts, if you like, the common costs, you know,

1 realistically how many accountants would you have, you'd
2 have a CFO. When we looked at NGC distribution and say
3 well, it's a much smaller business, would you have a Steve
4 Bielby and three lawyers and we said well, no, you
5 probably wouldn't have Steve. What you'd have is a senior
6 solicitor who is also company secretary.

7 So basically it's like a box with people's names next
8 to it that we had and we went through ticking them or
9 crossing them to end up with a model of what you would
10 have in terms of corporate personnel; what you would have
11 in terms of computer support, obviously a bigger company
12 like us, and we implemented big computer systems like the
13 JD Edwards system for keeping all the accounts on that.
14 You wouldn't expect a small distribution company to go to
15 that same level of expense in those areas.

16 So we generated a model for each of the businesses
17 which had like a -- this is based on 2003 data which was
18 based when the company had got out of generation, got out
19 of electricity, and said well this is what the proportions
20 would look like, you know, for the two stand-alone
21 businesses. That gave us a set of percentages for each
22 category of common costs, like leases and, you know,
23 insurance, all those sort of things, and then we used that
24 as a set of percentages to project backwards against the
25 common costs that were in place, you know, so we could in
26 the past identify the bucket of common costs. What we did
27 was try to get a robust percentage for each of the
28 businesses so that we could say well this is what they
29 would like going backwards.

30 **CHAIR:** I diverted you from your presentation.

31 **DR HODGSON:** That's all right, happy to explain. With NGC

1 distribution, and I'd make a comment here that in terms of
2 forecasting in terms of the 70E response, we ended up
3 making a couple of mistakes which we've notified the
4 Commission of and it was around when we were trying to re-
5 incorporate the gas metering business. The accountant
6 that was involved made a couple of hiccups in his
7 spreadsheets which lead us to a forecast set of
8 replacement costs which, using the standard revaluation
9 gain calculation, generated a set of negative numbers
10 which the staff raised concerns with, and consequently the
11 Commission adopted its own approach to our forecast
12 distribution asset base.

13 I can understand the reasons why and as I say we made
14 the mistakes and acknowledged that. We've subsequently
15 provided corrected numbers and the issue here is that in
16 terms of forecasting the asset base the pipelines are
17 indeed likely to be subject to revaluations, but the gas
18 metering assets aren't.

19 So the two components have to be, if you like,
20 forecast separately and then put back together rather than
21 simply the final ODV being inflated. So that's what we've
22 provided and that's why the baseline number we present
23 here is different from what's in the Commission's Draft
24 Report.

25 If we simply stand today and take a forward-looking
26 approach on the distribution business, the acquirers
27 benefits drop to \$27,000. We've also, and I should say
28 we, CRA have outlined a model of dynamic efficiency which
29 we believe is more appropriate for distribution. Simply
30 put the question is, in the Commission's model it assumes
31 in year 1 of control that there's a reduced investment of

1 equivalent to 50 TJs of the market. However it assumes
2 that in year 2 and subsequent years investment has
3 returned to the pre-control levels.

4 What we're saying is that without getting into an
5 argument of what the number should be, that should be a
6 cumulative effect. So if there's going to be reduced
7 market growth of 50 TJs, then the subsequent year it's
8 another 50 TJs on top, another 50 TJs on top going
9 forward; so you have this cumulative dynamic efficiency
10 issue associated with distribution networks.

11 Putting that into the model leads to a net acquirers
12 benefit of negative \$269,000. In terms of combining all
13 the different aspects again within the Commission's model,
14 which again isn't forward-looking it's across the whole
15 thing, you end up with a negative \$2.3 million of
16 acquirer's benefit and again increasing the WACC makes
17 that number more negative.

18 I would also add here, and we haven't included that on
19 this slide, but these numbers we've presented here don't
20 incorporate -- well I believe the combined effect does,
21 but even if, say, we take the forward-looking approach
22 that is put up for both those businesses, that doesn't
23 correct for our inaccurate tax expense forecast that we've
24 put to you. So there would be in the case of transmission
25 another \$2.4 million in tax that needs to come off that
26 number, or in the case of distribution around \$800,000
27 a year. Just recalling, they were the factors around the
28 fact we didn't incorporate the effect of the price
29 increase on the tax expense.

30 So really that is in summary, and I do say it is in
31 summary, our submissions from a business perspective on

1 the Commission's model. I'm happy to take questions. As
2 I say, CRA will be coming up shortly to discuss many of
3 these issues from a more economic basis, but I'm happy to
4 answer them from a business point of view.

5 **CHAIR:** I'll just check with my colleagues.

6 **DR LAWRENCE:** Just a couple of points. Firstly you would
7 agree with the general proposition that the Commission has
8 a responsibility to use all the information that it has at
9 its disposal when undertaking this sort of analysis?

10 **DR HODGSON:** When you say "use", I mean "use" is quite a wide
11 word. I would say it's, you know, the Commission can
12 consider all the information as it's disposed. I mean
13 they're ultimately in the position of making a judgment
14 call as to whether that information informs the decision
15 positively or in fact can be relied on. I mean, but
16 certainly it needs to look at all the information before
17 it.

18 **DR LAWRENCE:** I was just wondering what you would say to the
19 proposition that only including forecast data is
20 effectively throwing away much of the information that the
21 Commission has to base its analysis on.

22 **DR HODGSON:** No, I don't accept that on the basis that the
23 forecasts incorporate our best view of what can be
24 informed by the past. We've indicated in there that there
25 is volatility in our forecasts, that's provided in what we
26 provided to the Commission. We accept that
27 people may have different views on volatility, but you're
28 sort of saying, well, you can sort of look at something
29 and necessarily come up with a better view of the future
30 than our senior management team and our board.

31 I guess it gets a little bit difficult. I mean that

1 information was not prepared for the benefit of the
2 Commission, it was prepared for board strategy purposes
3 and we've got people that are dealing with this all the
4 time. I would expect if you have faith of their knowledge
5 of the past and what analysis is available to them that
6 they would give a reliable prediction for the future. But
7 I accept the point there may be other aspects the
8 Commission may want to think about.

9 **DR LAWRENCE:** I guess the point I'm making is that sure we
10 accept that your manager should be well placed to come up
11 with informed estimates of what's likely to happen in
12 future years. But that, as your work points out, is by
13 nature uncertain, but you've also got some information
14 there that is very definite as to what's already happened.
15 So the point I'm making is that you need to take a fairly
16 holistic view of all of that information that is
17 available.

18 **DR HODGSON:** I accept that, you know, as I have said, the
19 Commission will want to consider everything. I think the
20 usual approach though, and I mean I'm not an economist by
21 training, but I would say that, as I understand it, the
22 usual approach to decision-making, if you're taking an
23 economic approach, is to take a forward-looking approach
24 with the best information and estimates that are available
25 to you. Indeed that's what the Commission did in the
26 Airports Inquiry. So while it was informed by the past --

27 **CHAIR:** I think there is a bit of a problem with what you keep
28 saying about what we did. We certainly looked at past
29 excess returns and we would have done more than that had
30 it not been for lack of information to do it. So I think
31 we should argue this on its merit rather than make

1 comparisons to that particular case, because what we did
2 in that particular case probably had more to do with data
3 limitations than suggesting I think what you might be
4 trying to suggest by referring to it. I just want to
5 caution you on that point.

6 **MR NICHOLLS:** One piece of information that we haven't got yet
7 is an explanation for why not use the NGC forecast apart
8 from a broad reference to a holistic view. CRA point to
9 the fact that it can be mined for information about
10 variability and that sort of thing. But to average it in
11 to sort of improve the forecast in some way, there's no
12 explanation in the Commission's report for why that was
13 done. So that's very hard for us to react to and very
14 hard for us to understand why, you know, apart from a
15 reference as to holistic view, why you haven't used the
16 best estimate of market participants.

17 **MR BIELBY:** If I could add, having sat through the board
18 strategy process, turn this one on its head and say if we
19 went back to the NGC board and said which approach would
20 they find useful, accepting fully that the Commission
21 should look in both directions, I would strongly suspect
22 they would not feel that the process of averaging back
23 would help them inform themselves looking forward, they
24 would go back to the position which we had, particularly
25 for the reasons that Mr James outlined, that the market's
26 changed fundamentally.

27 **DR LAWRENCE:** Perhaps we'll move on. I just want to ask some
28 questions about the productive efficiency slide that you
29 put up. You make some comments about NGC being a, or
30 facing various threats if it was indeed an inefficient
31 company, and they're related to things like take-over and

1 bypass and so forth. My understanding is that NGC does
2 not have a long history, though, of being a fully
3 commercial company. It has evolved over the last decade
4 or so into a shareholder owned entity. It's basically
5 operating in a market that is, to a large extent,
6 characterised by natural monopoly features; wouldn't it be
7 fair to assume that even with a fully commercial company
8 it's going to take a considerable period of time for that
9 sort of organisation to become fully efficient?

10 **DR HODGSON:** I guess there's a two step process in NGC's case.
11 We were sold to Fletcher's in I think 87 or 88 before we
12 became a listed company. Fletcher's had a fairly strong
13 ethos of getting costs and value out of businesses. I
14 would say they probably had a good first swipe at
15 anything. I wasn't there at the time, so I'm just sort of
16 saying from general impression.

17 Then we've been listed, I mean granted improvements
18 take time, you know, we're not claiming that they don't
19 take time, but I would say that it seems unlikely that
20 there is a robust basis for assuming a difference in
21 productivity. Because we are talking about ongoing
22 productivity improvements in both cases. What I am
23 submitting against is a claim that there would be
24 additional productivity improvement under control as
25 against a no control situation.

26 **DR LAWRENCE:** You make some observations about the PEG study
27 and indeed we'll have quite a few questions for PEG on
28 Wednesday morning, but following on from the discussion
29 this morning I thought we got to the proposition from
30 Mr James that basically the US was not a good comparator
31 for New Zealand given very different characteristics of

1 those markets.

2 **DR HODGSON:** As with any market I would say there are huge
3 differences, I accept that's part of the issue or the
4 problem with benchmarking per se if you like. I think if
5 you looked at the chart that Phil put up, the US and
6 indeed Victoria in Australia was up in the same sort of
7 zone of high utilisation, you know, high demand, high
8 penetration rates. So certainly the costs there would be
9 much lower just because of the natural virtues benefits of
10 network economics. We on the other hand are write-down
11 the other end.

12 So if anything, and I'm not, you know, we're not
13 claiming this 30% as let's put it into the model, but what
14 we would say qualitatively looking at the discussion you
15 had with Phil this morning is that you would expect the
16 costs in New Zealand to be higher than in the US, simply
17 from fundamental network economics, without necessarily
18 being able to quantify those.

19 **DR LAWRENCE:** I think there's two points there. Firstly the
20 comparison you put up this morning was a very partial
21 comparison because you were just looking at the
22 residential component of demand, I believe, from what you
23 confirmed when we asked that question. Looking at the
24 overall figures in terms of demand from all sources, not
25 just residential, I don't have the figures for the US, but
26 certainly relative to Australia, NGC distribution actually
27 comes through with the highest energy density out of the
28 14 or however many distributors it is that we've included
29 in our study from New Zealand and Australia. Vector is
30 also very high. There's only one other company that comes
31 close to the two of those companies and that's actually

1 Allgas in Queensland. So I think you've got to be careful
2 when you talk about energy densities because if you take a
3 partial view just looking at residential then you'll get a
4 very different picture to if you look at the whole
5 situation with regard to demand.

6 **DR HODGSON:** I accept it's very difficult to look at. I'd say
7 energy density is one aspect. Connection density is
8 another significant aspect in that you've got every one of
9 those connections there that you have to deal with. If
10 you like there's 230,000 gas connections in the country if
11 you take the reticulated market as a whole. Probably
12 220,000 of them or more are residential, so there's still
13 a high cost to actually maintain networks to serve those
14 customers.

15 **DR LAWRENCE:** I'd just like to ask you whether you think the
16 PEG study adequately adjusts for operating environment
17 differences. We discussed this morning that there are
18 some fairly significant factors there that differentiate
19 between the US and New Zealand.

20 **DR HODGSON:** Certainly my view and I would imagine the view of
21 NGC is that we're not experts in benchmarking studies and
22 it's really I think for PEG and yourself to discuss,
23 because our proposition here, or NGC's proposition is not
24 trying to say that you should be showing a productive
25 inefficiency from control or a productive efficiency gain
26 from control. We're saying that the factual and the
27 counterfactual for this decision-making process cannot
28 assume a difference in productive efficiency. Control
29 will not improve productive efficiency over and above
30 those drivers that I've put up.

31 **DR LAWRENCE:** This is something I'll explore with PEG on

1 Wednesday, but I think the point is that in reality they
2 include very few operating environment adjustment factors.
3 Indeed the major factors you spoke about this morning such
4 as climatic differences and lifestyle considerations are
5 not included in that study at all.

6 If I could just move on to two other points. Firstly
7 you mentioned that in your modeling work that you defer
8 gains in years 4 and 5 due to an incentive that's
9 supposedly there for firms to defer benefits as they come
10 up to the new regulatory period. Now, as I understand it
11 the Commission has not made any forecast or comments on
12 the type of regulatory regime that might eventually apply
13 if indeed that does occur, but I would make the point that
14 most other jurisdictions have introduced efficiency carry
15 over mechanisms that actually give firms an incentive to
16 even achieve or achieve an even spread of productivity
17 improvement over time, including in those last couple of
18 years leading up to the next review. Why have you not
19 considered that?

20 **DR HODGSON:** Again I'll refer to people with more expertise
21 than me, that Mr Horton who was here on Thursday on behalf
22 of Powerco who has had much more experience in these
23 matters than I indicated that those mechanisms are very
24 difficult to implement in practice.

25 So we are here talking about a model, we're not
26 necessarily saying exactly about reality, but certainly
27 the incentive would be, and I know if I could take an
28 analogy that I'm aware of, that actually comes from
29 Australia where people are allowed so much capex within
30 their five year regulatory period; there was certainly one
31 high profile situation in the last year or two where a

1 company two years into its regulatory period signaled that
2 it had actually spent all its capex that it was allowed
3 for the next five years and wouldn't be investing in any
4 more, I think it was electricity distribution assets.
5 Once we get into a situation of regulatory regimes it
6 becomes very difficult to determine how one particular
7 aspect of it will result in behaviours or what sort of
8 incentive it puts in place for people's behaviour.

9 **DR LAWRENCE:** I think the example you're quoting there is a
10 different situation to the one I asked about. Perhaps we
11 could move on to the last question that I wanted to ask
12 you. That is that in chapter 6 of your submission you
13 make the statement that the productivity NGC has achieved,
14 as recorded by the Commission, would place NGC on the
15 margin between average and high categories in the
16 electricity lines threshold regime. I just wanted to get
17 a feeling for what basis you made that statement on.

18 **DR HODGSON:** Yep, that was, I must admit, it's a, shall we
19 say, a back of the envelope type calculation. If you took
20 the study that you performed for NGC distribution simply
21 by trying to assess what the relative growth, the index
22 that you came up with, how that had moved between I think
23 the study period was 99 to 2002 in the electricity lines
24 businesses. Basically I tried to pick the same period
25 that you'd use for the electricity lines businesses, and
26 then using the index that you'd produced there look at it
27 and say well how does that come out in terms of a
28 productivity growth figure as you'd published for
29 electricity lines businesses. I fully admit, it's my
30 calculation, it came out to be comparable to the figure
31 that you gave for UnitedNetworks as an indicative figure

1 which I believe was the tenth ranked company on
2 productivity basis.

3 So that's why I say, it would seem to me, and this is
4 simply by interpreting the information that's been put to
5 me rather than by doing a study from scratch, that
6 compared to the electricity lines businesses we're
7 certainly in that region and it would certainly, in my
8 view, not be sound to assume that we're in the lower
9 productivity region.

10 **DR LAWRENCE:** I think you might be confusing productivity
11 growth rate and levels there, in that the electricity
12 groups are made up on the basis of productivity levels
13 rather than growth rates. Indeed I think it's problematic
14 to try and extrapolate or compare your productivity growth
15 rate with electricity lines businesses because in many
16 ways they're quite different markets, where I would expect
17 higher productivity growth rates in gas given that you
18 have much lower penetration rates into the market than
19 does electricity. So electricity is going to be a more
20 stable market and with probably very little change in
21 penetration rates compared to gas. So I just caution
22 against making comparisons like that.

23 **DR HODGSON:** Fair comment. I guess the submission I would put
24 back is that with the exception of Powerco and
25 UnitedNetworks, they're all community owned bodies, so not
26 necessarily with the same productive efficiency incentives
27 on them that we have.

28 **DR LAWRENCE:** That's one aspect, but as I mentioned the basic
29 market characteristics are also a very important driver of
30 the observed productivity growth rates. I'll hand over.

31 **MR SELL:** The first question I have is probably drilling down

1 a little bit more on the cost allocation process that you
2 went through. 54 percent of total common costs, how does
3 that compare with your network's revenue as a proportion
4 of NGC's total revenue? Are you able to give some sort of
5 indication on that?

6 **DR HODGSON:** I haven't done that, I could look that number up
7 for you. I couldn't answer off the top of my head.

8 **MR SELL:** The second question I have, and I don't want us to
9 get too much into accounting detail here, but I am having
10 trouble reconciling the numbers on your slide with numbers
11 in your report and I think I heard you say that you've
12 also incorporated in those numbers on the slide some
13 corrections that you've made subsequent to the report.

14 **DR HODGSON:** This slide?

15 **MR SELL:** Yes, is that correct?

16 **DR HODGSON:** In terms of the report, in the report they will
17 show the amended baseline I believe. Which particular
18 numbers are you having problems with, the combined bottom
19 numbers or the --

20 **MR SELL:** Well all of them actually. I'm on page 9, for
21 example, of your submission and what I see there is, for
22 example, if we take the forward-looking characterisation,
23 if we just say NGC transmission, change their minus 1,444.

24 **DR HODGSON:** Sorry, yeah in that table, in the full report
25 from CRA there were two versions of a forward-looking
26 number and in terms of preparing this submission we've got
27 a bit confused in terms of which one is in here. The one
28 that's shown on page 9 is a recasting of the whole thing.

29 So if you were standing with 1997 as 2005 and looking
30 forward for a 12 year period, what would the impact be on
31 the results as opposed to simply taking information that's

1 given and then looking forward from 05 to 08. So I
2 apologise for that. The distribution one we picked up the
3 correct number but when we came back to this, and in the
4 CRA report it has both presented.

5 **MR SELL:** Okay, so for distribution, for example, I mean the
6 numbers differ there as well, there's 1,050 in this report
7 and you've got 27 there.

8 **DR HODGSON:** Yeah, in the report there's a column which is
9 just the change or, if you like, the impact of that
10 particular thing. What I've presented here is the net
11 number that you end up with when you make that change.

12 **MR SELL:** So it's just for transmission that there is a table
13 on a different basis than here?

14 **DR HODGSON:** There were two forward-looking characterisations
15 that were in the CRA report and we intended in our written
16 submission to have the one that was 05-08 but we
17 unfortunately picked up the wrong number. But they are
18 all presented in the CRA report.

19 **MR NICHOLLS:** We'll supply a corrected table.

20 **MR SELL:** In the meantime if we go to the CRA report we'll
21 see one that reconciles with the numbers on your slide
22 will we?

23 **DR HODGSON:** With the exception of the corrected forecast tax
24 which also flows into the combined numbers. We only
25 became aware of that when we were doing the
26 reconciliations recently for the Commission.

27 **MR SELL:** The next question I have is one about the concept,
28 or one of the concepts that the Commission has applied.
29 We may well come back to this after CRA, but I wondered if
30 I might just ask you a simple question about it. When it
31 comes to analysing just a partial period, let's not worry

1 for now as to whether that's partly historical, partly
2 future or whatever; is the problem that you have with that
3 a problem to do with the asymmetry of it that the Kapuni
4 example, if you like, where we're leaving out one side of
5 an adjustment and only putting in another, or do you have
6 some other more fundamental concern with just analysing
7 partial periods?

8 **DR HODGSON:** I think the example if we go back to those
9 tables, is that expecting NPV to equal zero over a partial
10 period is unlikely to be the same as NPV equals zero over
11 the full asset life. There's a fundamental mathematical
12 sampling issue there which I think it is actually
13 reflected in the table that we show. So we then end up
14 with -- on top of that you have this situation of one-off
15 events that may not be treated on a symmetrical basis.

16 **MR SELL:** So you do have a difficulty with the mathematics,
17 the financial mathematics, if you like, of just looking at
18 partial periods.

19 **DR HODGSON:** Yeah, I guess what we're trying to highlight, we
20 have an issue with it, we recognise that obviously there
21 has to be some form of assessment so we can't just say
22 let's not do it, but I think we're saying that you have to
23 be very careful how you interpret the inputs when you're
24 doing an analysis like that and what sort of results you
25 draw from it and particularly the sensitivities around
26 issues, if you have a one-off event that's included but
27 not, you know, the corresponding event's not included. So
28 we're recognising the raft of difficulties associated with
29 it.

30 **MR SELL:** Is this something that CRA are going to cover to
31 some extent in their presentation as well, or should we

1 deal with it all now?

2 **DR HODGSON:** I believe Professor Evans is going to discuss the
3 construct of NPV equals zero but also in more detail how
4 it applies to the Commission's assessment.

5 **MR SELL:** Maybe it's best if we come back to it after that
6 session if that's okay.

7 **MS BEGG:** You've made the case I think that we should be using
8 an ex-ante approach to using optimisation and stranding
9 risk and you've also said that NGC itself prices on that
10 basis. It doesn't price on an ex-post basis where it
11 recovers a stranding cost when an event occurs. You've
12 also given us numbers that suggest for NGC transmission
13 that stranding and optimisation are quite significant, 29
14 percent, 36 percent etc. I just wondered, therefore, in
15 operationalising, if that's a word, the ex-ante approach
16 which NGC says it uses, what model you've used, or what
17 approach you've used to assessing what the ex-ante margin
18 should be which you'd add on to your WACC and also for the
19 Commission if we were to apply your approach, how should
20 we assess that margin?

21 **DR HODGSON:** I guess there's the issue of a margin and I guess
22 it's a question that Ian, when he's doing the pricing, is
23 saying what do we think is a reasonable fair return on
24 these assets and he looks at that. Whereas in this type
25 of process we're to some extent stuck with the CAPM model
26 and then it becomes a question of what margin should we
27 have over and above that. We obviously have some people
28 that do those sort of calculations but we don't say what
29 is the margin over WACC unless we're actually talking
30 about the type of approach that you're doing.

31 We're saying, and I think Phil's on record at an

1 investor conference as saying, when we're looking at our
2 returns going forward then we're looking at opportunities
3 that are somewhere between 8 and a half and 10 percent
4 post tax returns. Different investments will have
5 different rationales to them. But that's what, if you
6 like, the company as a whole is looking at. So within the
7 company in terms of opportunities different business unit
8 are competing to try and attract the investment dollar
9 from the board.

10 **MS BEGG:** So would it be fair to say that if you use CAPM to
11 get a WACC you'd get a lower number than your 8 to 10 and
12 your 8 to 10 incorporates these optimisation risks,
13 although it sounds like you haven't formalised the
14 assessment of them?

15 **DR HODGSON:** I guess the WACC issue is a complex one for
16 experts. Certainly the work that we did at the framework
17 stage with Tony van Zijl and Glenn Boyle produced a
18 midpoint WACC for 9.6 as a reasonable return for gas
19 transportation businesses. Clearly Dr Lally has a
20 different view.

21 **MS BEGG:** But if you're saying that your advisors say that 9.6
22 is a reasonable WACC derived from CAPM, are you then
23 saying you're actually not applying any margin for the
24 optimisation of risk, which doesn't seem consistent to me
25 with the ex-ante approach that you're suggesting. Either
26 you compensate ex-post when an adverse event occurs, or
27 you have like an insurance premium in your pricing.

28 **DR HODGSON:** I guess the difficulty is when we're assessing
29 opportunities we're trying to take into consideration the
30 risk from a commercial perspective. What I can say is the
31 ex-post approach won't work. I mean the example of

1 stranding that's about to happen that we've indicated
2 through an alternative fuel was driven by one of our
3 shippers who, shall we say, has interests in other energy
4 forms. If that asset is stranded out and we turn up to
5 them in the next year and say thanks for doing that
6 investment and by the way can we have our \$X million back
7 through your other revenues we're going to get a fairly
8 short answer from them.

9 So what I'm saying is the assumption of ex-post
10 recovery in terms of this model does not reflect reality.
11 And even if it did, say, for example, that, just to pick a
12 number, say the regulatory WACC was 8 percent and we had
13 an asset that was stranded and we said right, let's go and
14 put our prices up in subsequent years, and this really
15 comes to the issue of under-recoveries and over-recoveries
16 as well, so it sort of applies in the idea if we have an
17 under-recovery or unexpected cost.

18 But we decide next year we're going to put our prices
19 up by whatever number, so that in that year we get a
20 return of 9 and a half percent rather than, if you like,
21 what is the accepted level of 8 percent. When people
22 actually look at us in our disclosure accounts they're
23 going to say you guys are getting 9 and a half percent,
24 that's not on.

25 So the system isn't set up with the ODV process to
26 allow ex-post recovery. If it was to allow ex-post
27 recovery then those stranding events would be reflected in
28 the way we've -- you say, well okay, you're allowed a
29 return on your depreciated replacement cost rather than on
30 your optimised and EV written down costs. That way when
31 you looked at the 9 and a half percent you would actually

1 say the 9 and a half percent on ODV is only 7 percent on
2 depreciated replacement cost, therefore that's fine.

3 But it's not, and you know, it's not really my place
4 to speak for the shippers, but they are supportive of the
5 ODV process, they are insisting on that because they
6 believe that we should bear the risks of stranding and we
7 should also bear the incentive to make sure stranding
8 doesn't occur or to do something about it when it has
9 occurred.

10 **MS BEGG:** When the Commission does its assessment it seems to
11 me we have a choice between imperfect alternatives. We
12 can choose to do it on an ex-post basis, which you say
13 doesn't necessarily reflect your pricing, or we could try
14 and do it on an ex-ante basis, but nobody's giving us any
15 guidance as to how or what approach we should take to
16 estimating that margin, and I just think that if you have
17 any more thoughts at some stage on that, perhaps in cross-
18 submissions, you could give us some advice on how you
19 think you do it and how you think we could equally do it.

20 I note for some things like disasters and so on where
21 it's also suggested that the risks are asymmetric and an
22 ex-ante approach is adopted by the companies; I note
23 there's an additional difficulty there for us if we went
24 to an ex-ante approach that we'd then have to take out of
25 the cashflows the actual costs that have been incurred and
26 I suspect the companies don't actually have the
27 information that would allow that. But maybe because
28 those events are more matched in that adverse events more
29 closely match expectations that might be less of an issue.

30 But perhaps it would be useful to us I think if,
31 instead of just telling us we should be using an ex-ante

1 approach, you give us some better guidance on how we
2 implement it so we can then assess whether the errors that
3 might be associated with trying to implement that,
4 guessing or estimating some ex-ante figures, how that
5 matches, you know, the problems that you have highlighted
6 might be occurring because we're using an ex-post
7 approach.

8 **MR BIELBY:** Just on that, I think that's something we should
9 try because, going back to the comment about a pick
10 between two imperfect models, what we're saying firmly is
11 the real world for us is one side, so I think it's a good
12 challenge for you to give us. Mr Wilson's probably the
13 best person to answer that, so we might be able to get him
14 back today, but otherwise I'm sure we'll be able to
15 respond to that, because yes, we've done that process
16 every year, and I guess that's the force of our submission
17 to you that that's the way we do approach it, so again
18 it's a fair challenge on your part.

19 **MS BEGG:** Thank you. I had just one other question. That was
20 I think you said that NGC was under control at the time
21 that the North Kapuni line was stranded. I just wondered
22 if you knew how that was treated under the regulatory
23 regime of the time. Was it left in the asset base or was
24 it taken out at that time?

25 **DR HODGSON:** It was stranded long before then because the Maui
26 field came on at the end of the 70s.

27 **MS BEGG:** So was it still in the asset base or not?

28 **DR HODGSON:** I wasn't around at the time. I wouldn't be able
29 to answer that off the top of my head.

30 **MS BEGG:** It would be slightly interesting, because you're
31 suggesting to us there's an asymmetry in treatment and I