

INDEPENDENT PRICING AND REGULATORY TRIBUNAL

PUBLIC FORUM
INTO
FORM OF REGULATION REVIEW

Held at the Level 2, 44 Market Street
Sydney, NSW, 2000

On Thursday, 21 February 2002, at 9.40am

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1 MR COX: Good morning, everyone, and welcome to the
2 tribunal's forum on form of regulation. I hope it
3 will be interesting and enlightening. I would just
4 like to make a few introductory comments and then
5 ask people around the table to identify themselves
6 and indicate what their interests are in the forum.
7

8 I just want to explain that we will be
9 transcribing the proceedings today. The transcript
10 will be kept by the secretariat and will be placed
11 on the public record. For the benefit of the
12 transcribers, could you please introduce yourselves
13 when you speak and also speak slowly and clearly;
14 and can I ask the transcribers to let me know if
15 that is not occurring so that we can get an accurate
16 record of what is being said.
17

18 We are going to have two sessions. One session
19 essentially will talk about criteria for assessing
20 the form of regulation. During that session we will
21 be interested in listening to your general views
22 about the form of regulation. That will take us
23 through to about half past 10, then there will be a
24 further session on particular options for the form
25 of regulation that have been developed by the
26 secretariat.
27

28 We are here to listen to your views and we are
29 interested in anything you have to say. When we go
30 around the table, I ask that people try to limit
31 themselves to about five minutes and also we would
32 like to hear people without interruption. Once we
33 have gone around the table, obviously there will be
34 an opportunity for further comments and discussion
35 and points of clarification and so on.
36

37 Let me first move around the table to introduce
38 ourselves and then Anna Brakey will go through the
39 process and the timetable. I am Jim Cox and I am a
40 member of IPART.
41

42 MS BRAKEY: Anna Brakey, with the secretariat.
43

44 MR MELHUIH: With the secretariat.
45

46 MS TOWERS: With the secretariat.
47

48 DR PARRY: Tom Parry, IPART.
49

50 MS SKUTA: From the Ministry of Energy and Utilities.
51

52 MR DUNSTAN: From the Sustainable Development
53 Authority of New South Wales.
54

55 MR ZULLI: Country Energy.
56

57 MS TERRI BENSON: Country Energy.
58

1 MR MARTINSON: Energy Australia.
2

3 MS CIFUENTES: Tribunal member.
4

5 MR WELLSMORE: From the Public Interest Advocacy
6 Centre
7

7 MR LIM: From the Energy Markets Reform Forum.
8

9 MS TRISH BENSON: From the Public Interest Advocacy
10 Centre.
11

12 MR HIRD: NERA.
13

14 MR RAY: Australian Inland Energy and Water.
15

16 MR OCKERBY: From Integral Energy.
17

18 MR CREES: Essential Services Commission (Victoria).
19

20 MR BARR: From Electric Power Consulting Pty Ltd.
21

22 MR COX: Thank you very much.
23

24 MS BRAKEY: Just to quickly go through the processes and
25 timetables for this review, this review is actually
26 part of the 2004 review project for network
27 examination. The timing of this particular review
28 is driven by the National Electricity Code, which
29 requires two years notice to be given for a change
30 to the form of regulation, and our current
31 determination expires on 30 June 2004. If the
32 Tribunal wants to change the form of regulation for
33 the next regulatory period, it must notify
34 stakeholders by 1 July this year.
35

36 This review commenced with the tribunal
37 releasing a discussion paper which was DP48 in
38 August 2001 and it called for submissions on that
39 discussion paper. The secretariat then prepared a
40 discussion paper that provided more detail than the
41 tribunal's discussion paper and it presented five
42 options for the form of regulation. It also
43 presents more criteria for assessing the form of
44 regulation. The aim of that secretariat discussion
45 paper was to facilitate discussion at today's round
46 table.
47

48 The options presented in that paper are options
49 allowed under the code which allow for a revenue cap
50 or a weighted average price cap. The public forum
51 today is really about you discussing the issues that
52 you consider important and that concern you, and
53 also to propose what you believe the form of
54 regulation should be.
55

56 There is an opportunity after today to put in
57 supplementary submissions and there will be a week
58 for you to do that. They are due by 28 February,

1 supplementary written submissions about issues
2 arising out of today. The tribunal will then
3 consider the form of regulation and issue a draft
4 report in about a month to six weeks and we will
5 call for public consultation on that, or written
6 submissions on that draft report, before finalising
7 the report and releasing it by 30 June for any
8 implementation on 1 July 2004.
9
10 Just on the slides provided, there is a box
11 showing the timetable there so you can see quite
12 clearly what the timetable is for this review. Are
13 there any questions on the process?
14
15 MR COX: We might move onto the first substantial
16 session on criteria for assessing the form of
17 regulation. I do want to emphasise, as I have said
18 before, Anna has introduced the topic but we are
19 interested in general views in this session that you
20 choose to put forward.
21
22 MS BRAKEY: The tribunal really needs a framework to
23 assess the form of regulation. So what we are doing
24 is trying to set up some criteria that will provide
25 a framework for assessing the different options.
26 There are objectives and principles set out in the
27 code that the tribunal has to have regard to in
28 establishing its regulatory framework and its
29 determination. They are set out in part D of
30 chapter 6 of the code. If you look at the slides
31 there are quite a few of those objectives and
32 principles listed there that also apply to the form
33 of regulation, so they provide an overarching
34 principle that the tribunal is working towards in
35 assessing the forms of regulation.
36
37 They include things like promoting efficiency,
38 preventing the extraction of monopoly rents,
39 balancing the interests of stakeholders, maintaining
40 financial viability of the electricity supply
41 industry, encouraging efficient behaviour and
42 efficient pricing, providing an incentive based
43 regime, providing reasonable regulatory certainty
44 and consistency, creating an environment in which
45 generation, energy storage, demand side options and
46 augmentation options are considered, and considering
47 the allocation of risks between network owners and
48 users. That gives us a high level set of
49 principles.
50
51 What we have tried to do is break that down
52 into a set of practical criteria targeted at
53 assessing the form of regulation.
54
55 We have set out a number of criteria and I will
56 quickly run through them before opening it up to
57 discussion on the actual criteria and whether
58 stakeholders consider these criteria to be

1 appropriate and if they have other criteria that
2 they think the tribunal should consider as well.
3
4 I guess the first one that we have is the
5 reliance on forecasts and correction factors and
6 impacts when the forecasts are inaccurate. Demand
7 forecasts have been a contentious issue in this
8 regulatory period and have an important impact on
9 the businesses.
10
11 It is important to note that all forms of
12 regulation actually involve some level of demand
13 forecasting but different forms of regulation are
14 more sensitive than others to demand forecasting and
15 when that demand forecasting is inaccurate.
16
17 A question that the tribunal could ask is
18 whether the forms of regulation provide an effective
19 mechanism for reconciling forecasts in actual demand
20 and in fact whether a mechanism is actually needed
21 or whether the form of regulation deals with that
22 issue without having to have a correction mechanism
23 at all.
24
25 The next criteria is earnings and price
26 volatility, questions like, do the revenues track
27 costs, what happens to the earnings of the
28 businesses if actual demand differs from the
29 forecast demand. Another issue is the price
30 volatility and do the different forms of regulation
31 lead to more or less price volatility, and just to
32 note there that the issue of limits on price
33 movements does not fall exactly into the area of
34 regulation review. It is actually a matter for the
35 2004 review and the questions that the tribunal will
36 consider at that time are whether limits on price
37 movements necessary and, if so, what are the levels
38 of those limits on price movements. Although it is
39 related to price volatility here, they are actually
40 issues that the tribunal will consider later.
41
42 Other questions that the tribunal may ask in
43 assessing the form of regulation is, will the form
44 of regulation give the businesses the incentive to
45 price efficiently and does the form of regulation
46 allow the businesses to set and restructure their
47 prices.
48
49 Another issue is the role of the tribunal and
50 the workability of the form of regulation.
51 Questions to ask are, does the form of regulation
52 minimise the role of the tribunal during the
53 regulatory period. Is the form of regulation
54 understandable and are there other significant
55 practical issues associated with the form of
56 regulation.
57
58 The final criteria that we have listed here is

1 the impact on demand side management of the forms of
2 regulation. What we are really here today to do is
3 to get the stakeholders' views on assessing the form
4 of regulation and how important you think these
5 criteria are and are there other issues that you
6 think the tribunal should consider.

7

8 MR COX: Thank you, Anna. I would now like to seek
9 comments from people sitting around the table. I
10 just remind you, keep your initial comments to about
11 five minutes and hear one another without
12 interruption. There will be a chance to add
13 comments later on. Someone has to start first, it
14 is always a difficult task, but if I could ask Chris
15 Dunstan to kick off.

16

17 MR DUNSTAN: What did I do to deserve that? We are
18 talking about criteria alone at the moment?

19

20 MR COX: And general issues about the criteria.

21

22 MR DUNSTAN: Let me first start with criteria. In
23 looking at the criteria that are listed, the one
24 that is implicit in most of them but is not explicit
25 is to ensure that incentives are provided for the
26 DNSPs to price in a way that minimises the cost of
27 providing energy services to customers. Essentially
28 that is why they are regulated in the first place
29 and I guess from the perspective of the one that
30 people probably expect me to focus on, which is
31 demand side options, energy efficiency and those
32 sorts of things, yes, they have environmental
33 benefits but I guess from the point of view of most
34 consumers the potential benefit there is to minimise
35 essentially energy bills and I think it may be worth
36 looking at each of these possible forms of
37 regulation from that perspective.

38

39 In terms of general issues, one other thing I
40 would say is that of the options that are listed
41 there, I think there are some other possible options
42 that can address some of the quite real difficulties
43 with the current approach but hopefully we will get
44 a chance to talk about some of those later this
45 morning.

46

47 MR ZULLI: Country Energy is generally supportive of the
48 criteria set down in the IPART discussion paper,
49 each of which will have different implications in
50 terms of the objectives and principles that have
51 been set out by the secretariat. Whilst we
52 generally agree with the bulk of the principles and
53 objectives that have been set out in that discussion
54 paper, we wanted to make special comment on one or
55 two of the criteria that have been outlined, the
56 first of which relates to risk and the allocation of
57 risk to distributors and network users, as well as
58 the impact of the form of regulation on revenue and

1 profit risk.

2

3 Price control can have an impact on
4 distributors earnings risk, particularly where it is
5 driven by output and energy throughput. Therefore
6 the question arises as to which parties should be
7 responsible to bear the volume of the risk and in
8 principle we believe that the risk should be
9 allocated to the party that is best able to manage
10 it. Therefore there needs to be some discussion
11 about controllable and uncontrollable risks.

12

13 Generally volume and energy throughput,
14 particularly demand and energy, are generally
15 uncontrolled by the distributors but, having said
16 that, we believe that the form of regulation should
17 therefore recognise which risks are uncontrollable
18 risks, which risks are controllable, and therefore
19 not artificially increase the risk to the
20 distributor because of that.

21

22 Having said that, obviously we don't wish for
23 customers to bear the total volume of the risk but
24 equally, if the risk to the distributor is
25 increased, this obviously will be reflected in the
26 price of service and obviously the cost of capital.

27

28 The second important criteria is the financial
29 viability of the distributors. The tribunal needs
30 to deliver through its form of regulation a
31 commercially sustainable revenue path for
32 distributors that recognises efficient pricing
33 costs, the pass-through of transmission charges and
34 also recognises past investments in providing an
35 adequate commercial rate of return on those
36 investments.

37

38 The third criteria that we wish to highlight is
39 encouraging pricing efficiency. Although each
40 option does have its different abilities in terms of
41 encouraging distributors to opt for efficient
42 pricing, we believe that a caveat is the flexibility
43 provided in prices but in particular the rebalancing
44 constraints that are imposed and so therefore even
45 though the issue of side constraints is not an issue
46 that should be discussed at this particular forum,
47 we believe that the tribunal needs to consider
48 carefully the implementation of side constraints and
49 also the level of side constraints.

50

51 In terms of promoting efficient behaviour, we
52 believe that this is an important criteria in the
53 selection of the form of control and we believe that
54 the meaning of efficient behaviour is output in
55 terms of volume and so therefore the form of
56 regulation should not necessarily restrict or
57 provide incentives for distributors to increase
58 output which is not efficient. Therefore that has a

1 linkage to providing distributors with incentives to
2 meet efficient demand and so there is a linkage
3 therefore to maximise efficiency in terms of dynamic
4 efficiency.

5
6 We also believe that the form of regulation
7 needs to provide an incentive-based regime and
8 obviously that has implications further on in terms
9 of the 2004 review in the sense of providing an
10 incentive for distributors to maximise efficiencies
11 and to pursue efficiencies and would allow the
12 distributors to retain those improvements over time
13 and potentially over greater than one regulatory
14 period, but certainly over a number of regulatory
15 periods.

16
17 In terms of administration, we believe that the
18 form of control should minimise regulatory burdens
19 and administration both on the distributors and the
20 IPART Secretariat. It should not be overly complex,
21 particularly in its initial establishment and also
22 in its operation. From our perspective, they are
23 two key elements.

24
25 In terms of demand management, we believe that
26 the current regulatory framework does not
27 necessarily provide incentives for distributors to
28 pursue demand management initiatives. The key
29 elements for distributors are basically incentives
30 to pursue efficient prices and also to make
31 efficient investments in the network which at the
32 same time considers demand management alternatives.

33
34 We believe that the regulatory framework for
35 encouraging distributors to pursue demand management
36 should be distinct from the form of regulation. We
37 believe that the appropriate mechanism for demand
38 management is the prudence test that we would
39 encourage the Tribunal to develop and publish.

40
41 At the same time, we believe that an
42 appropriate incentive for distributors to pursue
43 demand management is to provide a framework that
44 encourages distributors to contract with providers
45 of network capacity support services.

46
47 Having said all of that, the key issues,
48 therefore, from our perspective are revenue and
49 profit volatility. As mentioned earlier, we believe
50 that the form of price control should not
51 necessarily artificially increase risk for
52 distributors due to volume volatility. Secondly, it
53 needs to ensure that there is flexibility to
54 re-balance prices. Thirdly, another key issue is
55 the reliance on forecasts.

56
57 The X-factor we believe is an important issue
58 that needs to be sorted out. Obviously, it is

1 probably beyond this public forum, but there are key
2 issues associated with how that X-factor will be
3 established and set and the linkage of forecast to
4 the X-factor and allowances for forecast errors in
5 demand, given the distributors don't necessarily
6 have control over the level of demand and energy
7 throughput.

8
9 Therefore, we would encourage the Tribunal to
10 consider making a statement of principles associated
11 with the X-factor and how it is going to be derived.
12 A key issue is past transmission and other
13 pass-through costs. We believe that there needs to
14 be a similar mechanism to the current form of
15 regulation, where transmission costs and other
16 pass-through costs pass through in terms of the form
17 of regulation. Thank you.

18
19 MR MARTINSON: EnergyAustralia is pleased to be given
20 the opportunity for its views to be heard on this
21 very important and obviously timely topic. As
22 outlined in previous submissions, we believe that
23 the pure revenue cap that is in place has performed
24 inadequately in meeting the key objectives and
25 principles of network regulation as set out in the
26 National Electricity Code.

27
28 In particular, the fact that the revenue cap
29 does not allow volume risk to be managed has caused
30 significant difficulties, which has led to pressure
31 for significant price rises in future. The under
32 and overs account has worked poorly. We believe it
33 fails to provide an incentive to set efficient
34 prices. It focuses on revenue stability at the
35 expense of pricing and profit stability. We believe
36 it leads to overall heavier handed regulatory
37 intervention with higher associated risks and costs.

38
39 Since the last determination EnergyAustralia
40 has been faced with the pure revenue cap. It has
41 been extremely difficult to apply from both an
42 administrative and financial standpoint. All
43 capacity for the financing of higher than forecast
44 capital expenditures was lost.

45
46 When provided estimates of growth proved to be
47 incorrect - as is the nature of forecasting - EA's
48 network business has been unable to achieve its
49 allowable rate of return on capital invested.
50 Further pressures on EA's cashflows have become
51 unacceptable.

52
53 These cashflow pressures have arisen as EA aims
54 to maintain network reliability and discharges its
55 legal obligation to connect new customers by
56 investing in new infrastructure. To ensure that the
57 taxpayers of New South Wales are not disadvantaged
58 by these developments, EA needs to maintain the

1 appropriate risk adjusted returns paid to its
2 shareholders.
3
4 We believe these issues have made the
5 administration of the current determination very
6 difficult for both EnergyAustralia and the Tribunal
7 as there are no mechanisms available for either
8 party to manage the significantly higher volumes.
9 The lack of flexibility is a concern, particularly
10 as the only certainty associated with forecasts is
11 that they will be wrong or that the magnitude of
12 such variance will always be inherently uncertain.
13
14 While EA has suffered under the pure revenue
15 cap, the reconciling of actual and allowable
16 revenues which is required under any form of revenue
17 cap has also been problematic. The application of
18 the under and overs mechanism has resulted in
19 allowable revenues in the latter stages of
20 determination being reduced, at a time when the
21 costs of providing network services are increasing.
22
23 The disconnect between revenues and costs that
24 can occur in situations where volume growth is
25 materially higher than forecast causes problems not
26 only in the current regulatory period but also in
27 the transition to any subsequent regulatory periods.
28
29 EnergyAustralia estimates that the total
30 capital expenditure that we will invest beyond what
31 was allowed in the yearly report is in the order of
32 \$400 million. The revenue requirement associated
33 with capex is materially higher than that allowed in
34 the Tribunal's December 1999 determination.
35
36 The total shortfall in allowable revenues
37 necessary to fund the additional capex again is
38 significant and if capitalised and rolled forward to
39 the end of the regulatory period, it would result in
40 a total increase in the regulatory base of over
41 \$400 million or an 11 per cent increase in the asset
42 base.
43
44 The implications resulting from a one-off
45 inclusion of additional assets and return of
46 depreciation and opex would result in a significant
47 price increase based on current estimates of growth.
48 While we don't believe such an outcome was ever the
49 intention of the Tribunal when it did adopt the pure
50 revenue cap, we believe this has been the effect.
51
52 All that said, in assessing the appropriate
53 form of regulation we believe that the following
54 criteria are of utmost importance: it must manage
55 volume risk in a symmetrical manner; it must not
56 have an under and overs account; it needs to provide
57 an incentive to set efficient prices; it should
58 focus on profit stability and pricing stability

1 rather than revenue stability, as we believe is the
2 case with the pure revenue cap; and it should result
3 in lighter handed regulation.
4
5 It must also be noted that we believe the form
6 of regulation is a poor vehicle for executing demand
7 management policy and I think, as Lawrence alluded
8 to, we believe the outcomes will almost certainly be
9 biased and that the capex reviews conducted at each
10 regulatory reset are a far more effective tool for
11 this process.
12
13 We can't overstate our desire that the Tribunal
14 adopt a form of regulation that addresses the above
15 criteria. We believe that the weighted average
16 price cap using the lagged actual volumes approach
17 is superior in meeting the above criteria and the
18 code's objectives and principles of the four initial
19 forms of regulation proposed.
20
21 Moreover, had the weighted average price cap
22 been in place in the last review it would have
23 ensured a revenue stream that was closer to the
24 additional costs that we have incurred and it would
25 have maintained a balanced pricing trajectory
26 without the anticipated pricing volatility leading
27 into the next determination. Thank you.
28
29 MR WELLSMORE: Broadly speaking, we are happy with
30 the criteria that have been outlined. From our
31 perspective, though, I would just like to make some
32 brief comments on a couple of the key areas. One
33 area upfront, obviously, is that simplicity and
34 transparency I think goes hand-in-hand with that.
35
36 I suppose what we're really talking about is
37 understandability, if you can cope with that word.
38 With respect to the community sector and low income
39 households whom we mostly advocate for - that is to
40 say, who PIAC is advocate for - the resources just
41 don't exist for us to dig into this stuff in
42 anything like the necessary level of depth or
43 detail.
44
45 The more simplified the process can become or
46 the more simplified the rules and form of regulation
47 can become the better it is going to be. That also
48 is what transparency entails, people actually being
49 able, at some point, to put their finger on what's
50 happening with the prices that they're paying.
51
52 Side constraints are, I suppose not
53 surprisingly, a big issue for us and we would be
54 very keen to have discussions with stakeholders and
55 with the Tribunal in a couple of years' time about
56 those, but we figure they continue to have an
57 important role in regulation, particularly in
58 relation to monopoly businesses.

1
2 The other things that really stand out for us I
3 think are, firstly, the relationship to costs. We
4 think that ultimately there needs to be some
5 reconciliation between revenues and costs. If
6 that's how you're going to drive it, it seems to us
7 anyway, in part at least, that they're incentives
8 for efficiencies.
9
10 The concern from our perspective I suppose
11 there again is about the producer surplus, the
12 monopoly side of things. Having said that, we're
13 also quite interested in a model which contains an
14 allowance for growth.
15
16 From our perspective again we certainly can see
17 the difficulties that have arisen with the under and
18 overs approach and we would quite like to support a
19 model which doesn't have an under and overs approach
20 and doesn't have too much sensitivity, I suppose, to
21 forecast it. What we're talking about there is the
22 spectre of people trying to gain whatever model is
23 put up at the end of the day.
24
25 Risk has been mentioned already. I wasn't
26 going to say anything about risk because we are
27 sitting here representing a large group of very
28 small customers of State owned monopolies and from
29 our perspective the shareholder is really only a
30 proxy for the same people who are paying electricity
31 bills. We are in a bit of a different mind on the
32 issue of risk but I'll leave it at that. Thank you.
33
34 MR LIM: I would like to make a couple of general
35 comments. The first one relates really to the
36 importance we do give to the promotion of efficiency
37 and the prevention of monopoly rents and the need to
38 determine properly the level of efficient costs and
39 of course the proper allocation of costs.
40
41 It is very important from a major customer
42 viewpoint that those four criteria, so to speak, are
43 given sufficient attention in whatever form of
44 regulation might be agreed upon, but we'll come up
45 with more detailed comments on the forms of
46 regulation at a later stage.
47
48 There are a number of a priori higher level
49 questions which are very important because at the
50 end of the day we're probably talking about only 25
51 to 30 per cent of the final cost of electricity.
52
53 I would like to make one important point and
54 that is the level of intervention by the owners of
55 the networks or the absence of intervention. Those
56 questions are very important. Irrespective of which
57 form of regulation we use, the Tribunal will still
58 need to determine the level of efficient costs.

1 Also, the level of efficient costs will heavily
2 depend on the asset base that the Tribunal has to
3 examine.
4
5 I still recall the direction the Tribunal was
6 taking at the last price determination, by the
7 owners of the network, as to what sort of costs it
8 should use in determining the capital costs. That
9 is a very important prior question before we get
10 into the nitty-gritty forms of regulation.
11
12 The second I think is important too - again, it
13 is a wider issue - and that is the level of
14 competition that we have in the New South Wales
15 electricity market. I am not sure that we do have
16 the right sort of comparative market structure in
17 the New South Wales market and at the end of the day
18 that competition or the lack of competition will
19 determine the final price of electricity. Here
20 again we're talking about perhaps 35 per cent over
21 the cost of that final price of electricity.
22
23 The final remark I would make is the issue of
24 gaming. There is no question that there was a lot
25 of gaming by some of the distributors when the
26 Tribunal was undertaking its previous pricing
27 determination and clearly demand forecast was one of
28 those key areas where the distributors "gamed" the
29 Tribunal. Whatever model is decided upon it should
30 reduce the level of gaming, especially the demand
31 forecast. I shall refrain from continuing but those
32 comments are sufficient anyway.
33
34 MR HIRD: Could I perhaps emphasise three points. The
35 first is there is an objective that isn't explicit
36 in the Tribunal's criteria. Any form of price
37 control should deliver symmetry of outcomes to
38 unexpected events. If volumes are higher, then
39 there may be some benefit to the businesses. If
40 volumes are lower, there is going to be a loss and
41 that is just another way of saying that the expected
42 returns should be the same as the form of price
43 control.
44
45 That is true for price control of itself but
46 also true in terms of the intersection with other
47 forms of regulatory regime. I am specifically
48 talking about side constraints on prices. If one
49 form of price control appears to give you a symmetry
50 of outcomes but only by virtue of the fact that
51 you're implicitly assuming that businesses can
52 change prices beyond current side constraints, then
53 obviously it doesn't give you symmetry of outcomes.
54
55 It is not possible, I don't think, to set out
56 objectives for full price control without looking at
57 or deciding what the other elements of the
58 regulatory regime will be.

1
2 The other thing I would like to emphasise is we
3 would argue that the businesses are selling capacity
4 to the network and not energy. In looking at their
5 incentives to price efficiently, we should be
6 looking at some of their incentives to price
7 capacity rather than energy. That has a direct
8 relationship to any issues in terms of demand site
9 management. Thank you.

10
11 MR RAY: I would like to follow up on a number of points
12 that have been made by the other distributors. Our
13 main objective is a clear revenue path forward -
14 that is, simplicity in administration whatever form
15 of regulation is chosen - a form that addresses the
16 volatility in DUOS that we're currently facing both
17 in this current determination period and moving
18 forward into the next period.

19
20 We have to balance stakeholder interest and
21 returns to shareholders and price paths and service
22 delivery to the customers. There has to be a
23 balance achieved there. The form of regulation
24 should be light handed as much as possible and the
25 important thing is a transition from the existing
26 determination in terms of prices and price paths.

27
28 MR OCKERBY: I would like to thank the Tribunal for this
29 opportunity to elaborate on the points raised in our
30 submission and to comment on the Secretariat's
31 paper. Just focusing on criteria for the moment, we
32 roughly concur with the criteria that the
33 Secretariat has put forward in terms of evaluating
34 the options.

35
36 Could I suggest maybe a little bit of
37 re-ordering. I think our number one criteria is for
38 stable cost re electricity end-user prices. At the
39 end of the day customers do not want prices changing
40 up and down, either within a regulatory period or
41 between periods.

42
43 When we are evaluating the forms of regulation
44 we should pay heed to practical outcomes, such that
45 we would want to avoid price distortions being
46 created by fluctuations in sales volumes. Rather,
47 we would want prices which reflect the underlying
48 costs to the customers.

49
50 We have seen in the past determination the
51 combination of a revenue cap, side constraints and
52 rules on price fluctuations generated by the overs
53 and under account rules which have created price
54 paths which are uncommercial and have created price
55 distortions between customers of two DNSPs within
56 the same vicinity which are not cost price
57 differences but rather regulatory based price
58 differences. That is of great concern to

1 customers.
2
3 We would also like to see the practical outcome
4 of the form of regulation to allow us to signal to
5 customers costs of serving them as their demand
6 changes. As new areas are built with significant
7 demand capacity, then customers should expect to pay
8 for that capacity. I concur with Tom's comments on
9 pricing capacity rather than conditions.

10
11 The other critical criteria is for us to
12 clearly earn a sustainable commercial revenue
13 stream. Each form of regulation and each option
14 which is outlined essentially manages price
15 variation around a path. The path is actually more
16 important to us and more important to our customers.

17
18 We would like to see a situation where the
19 focus is on allowing within that price path
20 efficient capital investment, reasonable operating
21 expenses more critically than those two and an
22 incentive for us to maintain and improve services.
23 Thank you.

24
25 MR CREES: The Commission supports the criteria put
26 forward by the Tribunal. When we were going through
27 the last determination a form of price control was
28 raised with a revenue yield form of price control
29 and we moved to a tariff basket. We are restricted
30 in our choice because under the tariff order we use
31 a revenue cap.

32
33 Basically, the criteria we saw as the most
34 important was incentives to pricing efficiently by
35 the distributors. We felt the tariff basket did
36 that better than the revenue yield where the revenue
37 equalled price.

38
39 We also found that the revenue yield relied too
40 heavily on forecasts when prices had been put
41 forward each year and created the potential for
42 large correction factors which we've seen on a
43 year-to-year basis, which brought in some price
44 volatility. That also had an effect on the ease of
45 the administration, on a year-to-year basis, of the
46 approval process both for distributors and the
47 Commission. Thank you.

48
49 DR BARR: I come here today as a consulting engineer
50 with a lot of experience, with networks right across
51 Australia and also dealing with electricity
52 customers and I believe the temptation of a tribunal
53 like this, in a hearing like this today, is to treat
54 the network as a black box that has a value,
55 depreciate the level inside as an operating cost and
56 you can deal with it in a very clinical sort of a
57 way and come up with a determination.

1 Underneath that black box is a very complex
2 system of transformers, power lines and a network
3 that, unless it is dealt with properly, is going to
4 can cause significant problems later on. The point
5 that I raise is that as you go through the
6 determination process there's a real risk of
7 under-investment in the network underneath.
8
9 This under-investment in a network can sit
10 there undetected for a long period of time until
11 something very, very significant happens. Auckland
12 is the classic case. It has happened in New Zealand
13 and we are not immune to such problems here in New
14 South Wales.
15
16 I see a risk that if we proceed down certain
17 paths we're going to end up with distributors who
18 have not got sufficient revenue to operate. People
19 here have spoken about consistency of profits but
20 that can lead to a significant problem within the
21 network because the right incentives haven't been
22 put in place.
23
24 The concerns which I think need to be addressed
25 through the process are under-investment in the
26 network, which is ultimately seen through
27 reliability of supply. With respect to reliability
28 of supply, there are measures which exist but it is
29 a very hazy sort of measurement. You can have high
30 reliability one year and low reliability the next.
31 I wonder what the reliability of supply at Auckland
32 was? There are underlying aspects of reliability of
33 supply that are not clear and can come out of the
34 blue.
35
36 The other aspect is quality of supply delivered
37 to customers, particularly in relation to voltage
38 levels, harmonics - unbalanced technical things -
39 but there need to be drivers in place for network
40 owners to make prudent investments in their network
41 that are going to deliver to customers what they
42 need.
43
44 One that I've seen over a long period of time
45 is network losses. There are many, many projects in
46 networks that would have net present values at very
47 high levels, internal rates of return above 20 or
48 30 per cent, that are not being pursued because
49 under the existing pricing arrangements there's no
50 incentive for networks to do it.
51
52 Ultimately, the losers at the end of the day
53 become the customers and the community as a whole
54 because the drivers are not in place to cover that
55 particular aspect.
56
57 In conclusion, what I would like to say is as
58 you go through the regulatory process don't just

1 treat the network as a black box that has value and
2 costs and depreciation and all these financial
3 things. There need to be real incentives built into
4 this process to give customers what they need over a
5 long period of time. Some things, particularly
6 reliability and under-investment, can lie dormant
7 for long periods of time and become apparent very,
8 very suddenly at times in the future.
9
10 MR COX: Thank you. Tom, do you have any questions?
11
12 DR PARRY: No.
13
14 MS SKUTA: Basically, the Ministry of Energy and
15 Utilities would consider the criteria to be
16 appropriate. I suppose we would be looking forward
17 to mechanisms that would protect consumers in the
18 sense of creating price stability. We want to
19 ensure that efficiency gains are continued to be
20 driven.
21
22 I suppose one of the other key things we would
23 be looking for is that demand side options be
24 promoted. You have covered those, so I feel that
25 the criteria is satisfactory.
26
27 MR COX: Sir, would you like to make a comment?
28
29 MR ROLLO: My name is Joe Rollo and I represent the
30 Energy Users Association of Australian, or the EUAA.
31 Could I extend apologies for Raymond Domanski who is
32 not available. I would like to put some minor
33 points forward at this time and we will later on put
34 points as to the forms of regulation in more formal
35 form.
36
37 With respect to the discussion today of the
38 criteria and so forth, I understand that the
39 Tribunal will use its formal balance of interests in
40 determining the ultimate solution, but there are
41 issues that we would suggest ought to be borne in
42 mind. Obviously, prudent investment is one, the
43 form of regulation must support that, and efficient
44 cost of distribution, as our friend across the way
45 suggested.
46
47 There are solutions that sometimes don't fit
48 into the form of regulation nominated, so that is an
49 issue. The risk issue was mentioned. We would
50 probably have a different view generally, as Jim
51 also mentioned.
52
53 With respect to the risk issue, there is often
54 a short-term risk in the cashflow side rather than
55 long-term in terms of ultimately retrieving the
56 revenue required to cover the investment.
57
58 Volatility is an issue for users. Price shocks

1 is certainly a thing we would not want to see under
2 the form of regulation. The revenue cap has
3 provided some ability to retrieve or to change
4 prices. There was some adjustment for some of the
5 major DBs, in the most recent period, which has
6 alarmed them, but the benefit there is at least
7 there is a roll through to the ultimate users in the
8 form which we currently have, where some of the
9 proposed forms may not have that degree of retrieval
10 or pass on.

11
12 Transparency is a very important issue. I
13 think there has been insufficient transparency in
14 the current form so far provided that certainly at
15 the public level it's very difficult to follow and
16 again the complexity of the overs and under accounts
17 and those sorts of systems do provide a degree of
18 difficulty for independent observation.

19
20 Quality of services is an issue that needs to
21 be rolled into this form as well. There still has
22 not been an adequate recognition in the form of
23 recognition of the quality of services. Something
24 through the price path or X-factor needs to be
25 added. It is anticipated that IPART will provide
26 mechanisms for that.

27
28 Again, I think they need to be presented in
29 perhaps a more formal and comprehensible form for
30 the interested parties. Those are just a few points
31 that might be taken on board. Thank you.

32
33 MR COX: Does anyone have any further comments?
34

35 MR LIM: Thank you, Jim. I completely agree that there
36 need to be incentives for long-term reliability, the
37 sorts of things that you and Joe Roll have spoken
38 about, because there can be adequate incentives
39 built into the price paths that regulators do
40 provide.

41
42 I wonder whether those incentives that are
43 awarded by regulators should actually go into a
44 sinking fund to ensure that those funds are actually
45 used to improve the reliability and implementation
46 of the networks to guarantee the sort of consensus
47 that you are talking about rather than just
48 incentives that could disappear into shareholder
49 dividends in the short term. So it is a question
50 whether it is feasible to require a sinking fund.

51
52 MR COX: What I got out of all of that was firstly some
53 sort of sense that the form of regulation is only
54 one part of the whole regulatory package and that
55 other things like the choice of the X factor is also
56 very important, but the code does require us to look
57 at the form of regulation first, although we
58 recognise there are other issues.

1
2 I don't think anyone particularly liked what we
3 have got at the moment. I hear people saying that
4 the form of regulation in the determination has not
5 worked really well. I think that is important. I
6 am not sure if everyone agrees but there was sort of
7 a sense that the form of regulation is not the most
8 important mechanism for demand management. Chris
9 may want to comment on that again.

10
11 I got a sense also that people thought we had
12 got the criteria more or less right and in
13 particular they are pleased with things like
14 simplicity, light-handedness, price and
15 profitability, efficient prices and incentive to
16 invest. They seem to me to be things that came out
17 of the discussion.

18
19 That is what I got from listening to you. If I
20 have got it wrong, please tell me.

21
22 MR DUNSTAN: Has the current system performed as well
23 as everyone would have liked? I think the consensus is
24 no. As to the reasons why it hasn't, there are
25 quite a variety of views on that. Is it because of
26 gaming, poor forecasting, or because people are
27 getting used to a new system and need time to learn
28 from the incentives created by that system? Is it
29 because of trying to have a belt and braces approach
30 in terms of having incentives in the form of
31 regulation in terms of revenue regulation and then
32 side constraints?

33
34 So while I think everyone can agree that it
35 could be improved, if you asked people there would
36 be much less consensus about how to improve it.
37 Suggestions on how to improve it may be in opposite
38 directions. In terms of whether the form of
39 regulation is the appropriate mechanism to encourage
40 demand management, I think there is probably a fair
41 degree of more consensus there than is immediately
42 obvious.

43
44 If you will indulge me, I would not mind
45 reading from a Government Pricing Tribunal document
46 from 1995 on exactly this issue. I should declare
47 an interest, as I was actually working at the GPT at
48 that time. There was a document put out then
49 addressing a lot of issues we have here and we have
50 learnt something from that time as well. One of the
51 questions was, will revenue regulation be sufficient
52 to encourage an efficient, robust energy services
53 industry. That is on page 21.

54
55 The answer to this - this is well before the
56 regulation in its hybrid form was introduced - was
57 that this is unlikely in the short term, that is, it
58 is unlikely that revenue regulation would in itself

1 encourage energy efficiencies. Revenue regulation
2 will simply remove a bias against distributors
3 investing in energy efficiency on equivalent bases
4 to investing in the supply side options and it will
5 not actively promote an energy efficiency industry.
6
7 Then I will skip a little bit. Revenue
8 regulation is intended to remove an existing bias
9 against energy efficiency and not to substitute the
10 policies designed specifically to promote energy
11 efficiency, so we should not damn revenue regulation
12 for not achieving something that it was ever
13 expected to achieve.
14
15 MR COX: Any further comments? I will give a chance to
16 people sitting at the back, if they would like to
17 comment.
18
19 MR BEDFORD: Greg Bedford, New South Wales Treasury.
20 I would like to say that in terms of the tribunal's
21 criteria, we are very supportive of the criteria
22 listed and also supportive of the comments made by
23 the distributor representatives. I think in
24 particular, as discussed before, the criteria
25 relating to revenue tracking costs is a very
26 important one from the point of view of the
27 shareholders and, as Energy Australia stipulated
28 before, it has been unsuccessful during the current
29 determination to do so.
30
31 We see price stability, simplicity and
32 transparency as other important objectives. We
33 don't think that the unders and overs mechanism has
34 been successful so we are looking at some
35 alternative moving forward.
36
37 I would just like to make a few responses to
38 comments from Mr Lim. Firstly, he referred to asset
39 valuation issues. It is important to note that
40 under a linked building block revenue approach that
41 the construction of the building block component is
42 identical under all forms of regulation and to a
43 certain extent it is outside the scope of today's
44 discussions. Therefore in terms of the level of
45 competition, we are talking about regulation of
46 monopoly network businesses, and again I think his
47 comments in terms of the level of competition are
48 irrelevant.
49
50 His third comment about distributors gaming in
51 the overs during the last regulatory, it is gaming
52 to the extent of some \$400m and there we would look
53 for any opportunity to reduce gaming.
54
55 MR COX: Any final comment before we break?
56
57 MR LIM: Just one word - sensitivities.
58

1 (Short adjournment).
2
3 MR COX: We will resume for the second and probably most
4 difficult session, which is the options being
5 considered. Rohan will introduce a few options for
6 the form of regulation, then we will open it up for
7 discussion. Obviously we are open to suggestions
8 from people sitting around the table for alternative
9 or possibly improved forms of regulation as well as
10 the opportunities that Rohan will discuss.
11
12 MR MELHUIH: The secretariat released a discussion
13 paper for today's forum. That paper outlines the
14 detailed formulation of five options for the form of
15 regulation. We also distributed a brief paper today
16 showing the derivations of some of those
17 formulations, so if you have not been able to work
18 out how those formulas are arrived at, you might
19 look at that paper.
20
21 I am not proposing to go over the detailed form
22 of any of the models today, firstly because it is
23 quite complex and I think we will get bogged down in
24 the detail but, secondly, I think it is more
25 important to focus on the major features of each of
26 those models. You can look at the criteria against
27 each of those models to understand the detailed
28 formulation.
29
30 There are five options in the discussion paper
31 and they are listed in the second slide there. In
32 terms of the 2004 review in general there are two
33 distinct processes. Greg mentioned that the
34 building block revenue process or a benchmarking
35 process is quite distinct from the revenue regulated
36 process. What we are really talking about today is
37 how the DNSPs recover revenue.
38
39 I will briefly touch on the building block or
40 benchmarking process. I have called this a notional
41 revenue requirement process and what would happen
42 under any of the forms of regulation is that we
43 would develop notional revenue requirements for each
44 year of the regulatory period. These will require
45 forecasts of sales volumes, peak demand and customer
46 numbers to develop them. The same forecasts would
47 be used for any of the models so there is no
48 difference whatsoever in terms of developing those
49 notional revenue requirements and it is quite an
50 independent process to the consideration of the form
51 of regulation.
52
53 As probably mentioned a couple of times today,
54 the major unknown is the growth rate in demand.
55 There are probably a few other issues such as peak
56 demand that might enter into it, but really the
57 major uncertainty is how demand will grow over the
58 regulatory period.

1
2 I think there is an underlying assumption that
3 if costs are not fixed and you do get the demand
4 forecasts wrong, there is some profitability impact.
5 So what that really means is that costs are not
6 going to be equal to the notional revenue
7 requirement you have forecast.
8
9 It is probably worth saying that if you do get
10 the demand forecasts right, the model essentially
11 ends up being the same, so really a lot of the
12 differences arise from how the various models treat
13 differences between the demand forecast and the
14 actual demand.
15
16 Of the five models, three of them actually
17 target revenue so they are directly targeting the
18 revenue requirements through the benchmark process;
19 and two of them target the price charged by
20 distributors or a form of average price.
21
22 I will turn to the models now. Option one in
23 the discussion paper is a pure revenue cap. People
24 are probably familiar with how this works. You set
25 a maximum allowable revenue for each year of the
26 regulatory period. In practice you might specify
27 this as a CPI minus X in the revenue for each year
28 of the regulatory period and the X factor is
29 determined at the beginning of the regulatory
30 period.
31
32 The revenue you set is a maximum allowable
33 revenue so any overs or unders have to be returned
34 or recovered from customers. That requires a
35 correction mechanism. It is currently handled
36 through an unders and overs account. It would not
37 necessarily require that unders and overs account
38 but there has to be some mechanism for adjusting
39 actual revenues to the allowable revenues.
40
41 The second option is a revenue yield price cap.
42 This sets a maximum average price per unit of
43 consumption for each year of the regulatory period.
44 Again, you could specify that as a maximum average
45 charge for the first year of the regulatory period
46 to be changed by CPI minus X in subsequent years.
47 How you set the maximum average charge is to take
48 the revenue requirement you forecast each year and
49 divide it by the expected demand and that would give
50 you the maximum average charge.
51
52 This does not actually affect revenue, as your
53 allowable revenue is equal to your actual output and
54 throughput. You compare that maximum allowable
55 revenue with actual revenue and adjust through a
56 correction mechanism for any difference. Again,
57 that does require a correction mechanism and that
58 operates as an adjustment to the next year's price.

1 You might not need an unders and overs account if
2 you directly adjust for that.
3
4 The third model is the weighted average price
5 cap. This is the model currently used and it is
6 also known as a tariff basket. It is probably a bit
7 daunting when one looks at that formula. If you
8 look at the right-hand side, it establishes a ratio
9 between the two notional revenues. In effect what
10 the equation there does is constrain the rebalancing
11 of those tariffs. What it actually is is a ratio
12 between averaging pricing one year and averaging
13 pricing the previous year. The left-hand side shows
14 the change in average price from year to year. That
15 is expressed as a CPI minus X.
16
17 There is also a Y factor. Y enters into the
18 equation as the average growth expected over the
19 regulatory period or for each year of the regulatory
20 period. It does not require a correction mechanism.
21 The average price is actually dependent on the
22 relative growth in demand for each tariff, so it
23 differs from a revenue yield price cap in that it
24 does not require correction if the forecast volumes
25 in each tariff turn out to be different from the
26 actual tariffs.
27
28 The fourth model is a self-correcting revenue
29 cap. What we are doing is building up the ratio of
30 two revenues and it does not require a correctional
31 mechanism because if you set the prices in one year
32 based on the growth in the previous year, what this
33 actually does is if you get high growth in one year
34 you will over-recover, but you would build that high
35 growth into next year's prices and you would likely
36 under-recover for that year. In effect, it turns
37 out to be very similar to revenue capping with the
38 expected revenue over the regulatory period being
39 equal to that under a revenue cap but it does get
40 around having a correction mechanism.
41
42 Finally, the variable growth revenue cap. This
43 is similar to a hybrid model that the tribunal has
44 used before. It does not require a correction
45 mechanism for the same reasons as applied to the
46 self-correcting revenue cap. The formulations are a
47 little bit different but essentially it links the
48 revenue increase from year to year to a growth
49 factor. The growth factor could be a composite of
50 customer numbers, output, peak demand or just one of
51 those factors. We have put in a quarter as the
52 coefficient of the growth. That would be subject to
53 determination during the cost building block
54 process, as would what factors feed into that growth
55 factor. Again it does not require a correction
56 mechanism and it does adjust prices from year to
57 year so that over the course of the regulatory
58 period the actual revenue would be very close to the

1 notional revenue.
2
3 MR COX: I think we might take comments now, unless
4 there are specific questions.
5
6 MR MARTINSON: I guess I just wanted to flag that on the
7 weighted average price cap as presented here, we
8 don't believe that is the model that is best used by
9 ORG because of the Y factor. We don't believe there
10 is a direct Y factor. We understand that the X
11 factor in that equation would need to incorporate
12 growth implicitly but we don't believe that that is
13 actually the model that was used by ORG, but I could
14 stand corrected.
15
16 MR COX: We will come to that. I would ask people to
17 comment, comments on the five models in particular
18 that are put forward. If you want to suggest an
19 alternative model, now is your opportunity to do
20 that.
21
22 MS TERRI BENSON: I should start by saying that after
23 working through the five options we have not
24 actually identified one preferred option. We have
25 narrowed down the field to probably two. There are
26 a number of details that need to be clarified prior
27 to the application of each being fully understood
28 and until we understand that it is difficult to make
29 a decision.
30
31 We need to better analyse the impact of the
32 options on customers and distributors. Therefore we
33 would recommend that we do further analysis on that.
34 While we are attempting to do that at the moment,
35 there are some things we need further clarification
36 on before we can finalise it.
37
38 Before I discuss the options proposed I wanted
39 to put it in a Country Energy context. Country
40 Energy has a relatively low stable growth. We have
41 pockets of high growth along the coast, which is
42 smoothed by relatively stagnant growth in the inland
43 areas. Therefore, in the last period we have not
44 been capital constrained to the same extent as
45 probably metropolitan distributors would find
46 themselves and we are presently slightly
47 over-recovering the allowable regulated revenue but
48 we expect to be slightly under-recovered at the end
49 of the regulatory period if we ignore the FRC costs.
50
51 Given the stable growth, we probably are better
52 able to handle the revenue cap that we have had and
53 it probably has not been as problematic for us.
54 That is probably the context to some of the comments
55 I will make later.
56
57 Also, some principles we would like to see
58 following on from the last section in the form

1 of regulation, the things we considered as we worked
2 through the options, the first thing we would like
3 is the ability to reflect the actual growth that is
4 occurring in the network, which has already been
5 said, and the reasons we need to do that were
6 discussed last session. They need to provide
7 commercially sustainable levels of revenue, they
8 need to have appropriate pricing signals and it is
9 also important that we understand the impact on
10 customers.
11
12 Based on those principles and based on the
13 Country Energy position, we believe that the tariff
14 basket, option 3, and the variable growth revenue
15 cap, option 5, provide advantages over the present
16 form of regulation and we think are worthy of
17 further consideration.
18
19 Option one, the revenue cap, the reason we
20 probably don't want to see that go forward is there
21 is no relationship between the actual revenues and
22 costs and it does not have the ability to reflect
23 changing growth. Also customers bear an
24 unnecessarily high level of volume risk under this
25 model. If growth is lower than was expected, prices
26 will be increased in order to obtain the revenue and
27 we don't think that is necessarily a fair burden of
28 risk on customers.
29
30 Also, there is reliance on forecasts which we
31 spoke about before. It also has the incentive to
32 minimise cost of service once the revenue has been
33 set, which is not always the right decision-making
34 framework for a network to be in. While it is a
35 short-term approach, it potentially has long-term
36 problems.
37
38 The revenue yield approach - Option 2 - we
39 would not support. The link to kilowatt hours is
40 not appropriate. That is not what drives costs for
41 network business. We don't think that's an
42 appropriate form of regulation.
43
44 Option 3, the tariff basket, as I said, it's
45 one of the ones we would prefer. It creates a link,
46 being between revenue and price structures, and it
47 moves with increased demand on the network. We have
48 some concerns about this tariff basket and the link
49 to side constraints, which is relevant to Country's
50 revenue due to our large number of tariffs.
51
52 We at the moment have over 250 tariffs, so the
53 transition with that number of tariffs when they
54 don't reflect effective pricing structures would be
55 a problem, as the tariff basket provides the
56 incentive to produce cost reflective tariffs, but
57 the side constraints would reduce the possibility of
58 this occurring.

1
2 Regardless of the form of regulation, side
3 constraints will probably be an issue for Country
4 Energy anyway, but it's probably more problematic in
5 this form of regulation.
6
7 A point we need further clarification on
8 concerns the price structures. There is an
9 assumption in the model about price structures and
10 we would be concerned if this was a statewide
11 average or even a Country Energy average. We need
12 clarification whether that is going to build up on
13 actuals or some form of assumption about price
14 structures.
15
16 We can see the benefits of legislation to this
17 if it is designed properly. It dampens the profit
18 earnings risk to see the extent that the structures
19 reflect the cost of service. Unfortunately, with
20 respect to CE's situation not all our price
21 structures would reflect cost structures.
22
23 I haven't really considered Option 4 because
24 the formula is very similar to Option 5. Option 5
25 gives us the benefit of building in growth, which we
26 think is a better outcome. We would rather leave it
27 on Option 5.
28
29 It rolls forward revenue requirements according
30 to the movement in underlying cost, which is a good
31 thing. It allows for changes in demand, which is
32 the G-Factor in the formula. This means that
33 revenue is allowed to vary with increased output.
34 That is preferred to the pure form of a revenue cap
35 because it links our revenue to the distribution
36 cost drivers as to proxy changes in costs arising
37 from changes in customer numbers or demand.
38
39 It could be more complex in application from a
40 regulator's point of view. The effectiveness of the
41 G-Factor will depend on the variable elements or
42 cost drivers that are identified and the marginal
43 cost weights that apply to those cost drivers. The
44 cost drivers obviously need to be determined but we
45 think that is achievable.
46
47 There has been a lot of work done on cost
48 drivers in network businesses - the weights and the
49 application of those weights. How those cost
50 drivers impact revenue would also require work. We
51 would also like to point out that the application of
52 a single set of weights would not satisfy all
53 distributors. It would vary from distributor to
54 distributor because of the different operating
55 environments they are in. We also need to be
56 conscious of the fact that those weights may change
57 over time if the operating environments did change.
58

1 In conclusion, our support is for Options 3 and
2 5 because they reflect growth, but we do say they
3 require further analysis and we look forward to
4 undertaking that analysis. Thank you.
5
6 MR MARTINSON: In relation to the five options that are
7 put up - and I will limit my discussion to the five
8 options that were in the recent IPART paper and not
9 some of the other options that were in the initial
10 paper - with respect to Option 1, I really don't
11 want to spend too much time on that, Option 1 being
12 the revenue cap, because I think this morning's
13 previous session addressed a lot of the concerns.
14
15 Could I perhaps summarise the situation. The
16 fact is that the revenue cap doesn't allow volume
17 risk to be managed. The under and overs account has
18 worked poorly. It has failed to provide an
19 incentive to set efficient prices and has focused on
20 revenue stability and not profit or pricing
21 stability. We believe it leads to overall heavier
22 handed regulatory intervention with higher costs.
23 That was basically discussed this morning and so for
24 those reasons we don't believe the Tribunal should
25 consider the revenue cap.
26
27 Option 2, the revenue yield - and I guess when
28 we get to our friend from the ESC he can probably
29 expand on why the ORG did not support the revenue
30 yield approach - just to clarify, Rohan gave an
31 introduction of what the revenue yield was, but I
32 want to add a couple of bits to that.
33
34 The revenue yield calculates a maximum average
35 price by dividing the total revenue by the total
36 output and it sets a cap on the maximum average
37 revenue that DNSP is allowed to earn per unit of
38 output. The key difference between it and the
39 weighted average price cap is the way in which
40 allowed revenue per additional unit is treated.
41
42 The allowed revenue from each additional unit
43 varies according to the actual price for that unit.
44 Under revenue yield the allowed revenue per
45 additional unit is fixed. There is a difference
46 between it and the weighted average price cap.
47
48 As noted in the Tribunal's August 2001 paper,
49 the ORG moved to weighted average price cap from a
50 revenue yield because the revenue yield does not
51 provide an incentive to set efficient pricing. It
52 leads to volatility in profit stability, resulting
53 in changes in demand. It relies on forecasts and a
54 correction mechanism which is complex to develop and
55 implement.
56
57 We believe that the Tribunal should not be
58 considering the revenue yield as its preferred form

1 of regulation. The requirement for an ex post
2 correction mechanism makes this approach
3 unattractive, particularly when combined with the
4 lack of incentives for efficient pricing.
5
6 Hopefully, we have Options 1 and 2 out of the
7 way. In our view, it really comes down to
8 Options 3, 4 and 5. The three remaining options
9 from the recent IPART paper are similar in that they
10 do not require the use of an under and overs
11 account. They do not require the use of forecast
12 volumes in the annual pricing reset process. They
13 provide the same incentive, albeit limited with
14 respect to changes to any fixed and variable
15 components of tariff setting. We believe that they
16 are all similar in that regard.
17
18 Given that we could be here for days or weeks
19 trying to go through all the aspects of each of the
20 five models, we're really just focusing on the main
21 aspects.
22
23 The weighted average price cap is clearly the
24 model that is supported by EnergyAustralia and was
25 the model supported by all of the DNSPs in previous
26 submissions. Under this option, with respect to the
27 cap set on the maximum average price that can be
28 charged for the tariff basket or baskets, the
29 Tribunal could assess upfront whether the proposed
30 prices comply with the price control formula by
31 calculating the weighted average of the proposed
32 prices. Again, we can go through the formula but it
33 is probably not that helpful.
34
35 One of the things that I think is very
36 important, though, is that it is a proven approach.
37 What we are putting up is substantially similar to
38 that implemented by the ORG for the regulation of
39 the Victorian DBs. I have to say Options 4 and 5
40 are approaches that have not, to the best of my
41 knowledge, been implemented anywhere else in the
42 world and the risk to the businesses and the
43 Tribunal of adopting an untested and untried
44 approach I think is very high and this is
45 particularly the case given these options were not
46 included in the original August discussion paper and
47 had only been provided to us two weeks before this
48 session.
49
50 I have to qualify that all our comments are
51 based on the fact that we've only recently seen
52 these options and we haven't had time to really do a
53 thorough analysis on them, which I think is quite
54 critical. That concerns Options 4 and 5.
55
56 The weighted average price cap uses a lagged
57 actual volumes approach and the single tariff
58 basket. It must manage volume risk in a symmetric

1 manner. The expected reduction in revenues
2 associated with volume reductions is the same as the
3 expected increase in revenues associated with the
4 same volume increase. We expect that it would be
5 symmetrical.
6
7 We believe that this is not the case for
8 Options 4 and 5. The weighted average price cap
9 does not require an overs and under account. It is
10 superior in its ability to have the incentive to set
11 efficient prices, which we believe is essential for
12 signalling efficient usage and investment. We
13 believe it focuses on profit stability, which is
14 critical for any commercial organisation, as well as
15 pricing stability, which is what customers see at
16 the end of the day, rather than focusing on revenue
17 stability, which we believe is the main driver of
18 the revenue cap.
19
20 We also think that the weighted average price
21 cap would result in lighter handed regulation,
22 particularly as compliance is on an ex ante basis
23 which only requires controls to ensure that weighted
24 price movements meet the price control formula and
25 any side constraints.
26
27 Moving on to Option 4, as we understand it,
28 Option 4 being the variable revenue cap, the
29 objective of this model is an attempt to combine a
30 revenue cap with a weighted average price cap.
31 Revenues would change with volume variations from
32 forecasts, thereby eliminating the need for an overs
33 and under account, which is similar to the weighted
34 average price cap. Any revenue variance due to
35 volume changes would be limited.
36
37 We still believe that many of the underlying
38 problems with the pure revenue cap are still evident
39 with this model which does not satisfactorily adjust
40 to incorporate the high cost of increased growth.
41
42 Initial modelling results reveal that this
43 option does not, we believe, produce the intended
44 result and significantly reduces any incentive to
45 price efficiency. If actual volumes in one year in
46 the regulatory period are higher than forecast, this
47 will result in marginally higher revenues.
48
49 There are some positive relationships between
50 increased volumes and cost. However, in our
51 additional model if actual volumes in one year are
52 higher than forecast, we think that the revenues
53 will be marginally higher. That is fair enough. It
54 is not a problem if you accept that there's some
55 relationship between higher volumes and higher
56 costs.
57
58 However, the modelling that we've done shows

1 that if actual volumes in one year of the regulatory
2 period are lower than forecast, the option also
3 results in marginally higher revenues.
4
5 It is easily explained why the model works in
6 this intuitive way - and I would be happy to walk
7 through it with anyone who is interested - but there
8 certainly appears to be a structural flaw in the
9 model that we think would need to be addressed
10 before we could consider any support for this
11 approach.
12
13 We believe that the weighted average price cap
14 does not suffer from this anomaly and provides
15 predictable and symmetrical results.
16
17 Moving on to Option 5, the rolling growth
18 revenue cap, we understand that this option is
19 really a combination between a pure hybrid model and
20 price cap. Under a pure hybrid revenue cap, which
21 was in the initial paper but is not part of the
22 recent paper, the Tribunal sets a maximum allowed
23 revenue for each DNSP for the first year of the
24 regulatory control period.
25
26 The allowed revenue is linked to one or more
27 parameters which may result in changes to the
28 overall revenue should the parameters change over
29 time. It must be noted that, unlike the revenue
30 yield, the regulator rate sets marginal revenue
31 parameters as close as possible to marginal costs
32 rather than average costs.
33
34 As noted in the paper which was included as
35 part of our initial submission, if the regulator
36 were able to perfectly estimate the marginal
37 parameters, this form of price control would provide
38 no incentive to price efficiency. Business has no
39 pricing incentive to set prices equal to pricing
40 control and an efficient use of the network.
41
42 It is highly unlikely it would be successful in
43 setting the parameters correctly. This is because
44 there's really no simple variable that drives
45 marginal costs. If the Tribunal can accurately
46 identify all marginal cost drivers, the relative
47 importance of these would be constantly changing.
48
49 The drivers of marginal costs are likely not to
50 be linear. In summary, at best hybrid revenue caps
51 won't create an incentive to pricing efficiently; it
52 will create an incentive for inefficient pricing.
53
54 Option 5 appears to be a combination of a
55 hybrid revenue cap and the problems outlined above,
56 particularly where the regulatory intervention
57 required to assess the marginal cost parameters -
58 which we believe will probably be wrong - associated

1 with the hybrid still hold.
2
3 The initial modelling we have done suggests
4 that if the marginal coefficient that is
5 incorporated in this model is set close to one -
6 which means 100 per cent of the marginal revenue -
7 this model appears to be close in expected revenues
8 to weighted average price cap, but we believe that
9 the additional regulatory intervention and the limit
10 on efficient pricing is not a good outcome.
11
12 If the marginal coefficient is close to zero we
13 think this option is pretty close to Option 4, which
14 we don't believe is appropriate. While this option
15 appears to be a bit of a bet each way, the increased
16 complexity costs and impact on efficient pricing, we
17 believe, makes this option unattractive. Thank you.
18
19 MR COX: Do you want to comment on the Y-Factor?
20
21 MR MARTINSON: I understand why the paper actually
22 had the Y-Factor and it is really to recognise the fact
23 that at the time of establishing the building block
24 revenues, if you're moving to a weighted average
25 price cap, you do need to incorporate somehow the
26 fact it is likely that there may be an estimated
27 change in growth over the period.
28
29 We would believe that the X-Factor itself needs
30 to incorporate the fact that at the time when you
31 set the building block revenue and when you set the
32 X-Factor for a price cap, you have to take account
33 of the forecast growth at that time. It is merely a
34 mechanical mathematical approach where you're just
35 adjusting for the forecast growth.
36
37 I wanted to flag having an extra variable in
38 the model as presented with the Y-Factor which
39 attempts to do the same thing. We believe it makes
40 it look like it's more complicated than it actually
41 is. It is unnecessary, in our view.
42
43 MR WELLSMORE: Could I comment very, very briefly.
44 Trish and I came along today with a particularly
45 firm view about the options. We had hoped to get
46 something to the Tribunal by next week so as to give
47 a little bit of guidance with respect to what the
48 low income consumers might want.
49
50 I suppose though, just off the cuff, it seemed
51 to us that we would be less disposed towards perhaps
52 the first couple of options, if that was our choice.
53 We are quite interested in the idea of a lagged
54 demand mechanism. Where volatility is used in
55 different places in the discussion paper, I guess
56 we'd be a little bit concerned about that if pricing
57 constraints were to remain in place in some form.
58

1 I suppose at the end of the day, as we said
2 before, a lot of this from our perspective comes
3 back to the simplicity of the modelling and the ease
4 with which it could easily be understood.

5 Unfortunately, Y-Factors and so forth tend to
6 mitigate against that. In any event, we hope to
7 get something in writing to the Tribunal next week.

8
9 MR LIM: I am in the same position of not having had a
10 chance really to look through the various options in
11 detail. All I can say at this stage is that I
12 wouldn't reject or support any particular option at
13 this stage, other than to say that in the case of
14 Option 1 clearly the demand forecasting and overs
15 and under aspects are efficient and need to be
16 looked at, but that doesn't mean that all other
17 elements in Option 1 are necessarily rejected by us.
18 We have an open mind at this stage.

19
20 We would certainly support - and I'll be very
21 keen to hear the comments around the table - any
22 option that increases the incentives for the DNSPs
23 to set efficient prices: in other words, increasing
24 the incentives for the DNSPs to price to customers
25 according to the use of the system. Any model that
26 incorporates that simple objective we would
27 certainly be sympathetic to.

28
29 MR HIRD: Could I make a point of clarification. I
30 think the point is if you're going to have a
31 Y-Factor, which is fine, you can separately put it
32 in there, but you also need to consistently put a
33 Y-Factor in Option 4 and Option 5 as well because
34 exactly the same issues that have applied to your
35 growth forecasts will affect your price path in
36 Options 4 and 5. It may be less than the weighted
37 average price.

38
39 MR RAY: The situation facing us is somewhat different.
40 The biggest issue facing us in this process is the
41 translation of the revenue from the building blocks
42 into prices with acceptable increases. I will just
43 put that in the context of where we are at the
44 moment.

45
46 At the moment, we've got existing
47 under-recovery of revenue, minimal load growth,
48 static or negative customer growth and we're
49 probably looking at significant DUOS increases
50 within the existing regulatory period and also going
51 forward into the next regulatory period.

52
53 We have uncertainty of future load requirements
54 of major mining load, which is a significant revenue
55 element. Although there are some potential new
56 developments in the air, they're going to require
57 significant capital works that aren't included in
58 the current determination forecasts.

1
2 There are increasing opex costs in the short
3 term in the balancing of side constraints.

4 Irrespective of whichever form of regulation is
5 chosen, the major issue we're looking at is the
6 transition from existing prices to new levels to
7 recover the revenue within acceptable limits.

8
9 I certainly support the comments made by
10 Country Energy in terms of Options 1 and 2. I won't
11 dwell further on those. Every form of regulation
12 requires the development of accurate load forecasts
13 and then obviously translating that with prices to
14 recover your costs.

15
16 At the moment we're obviously doing more
17 modelling and I guess we're looking closer at
18 Option 3. Options 1 and 3 are the only ones that
19 we're giving a lot of thought to, but none of the
20 options jump off the page with any particular
21 benefit, from our point of view, because there are a
22 number of other issues that we need to work through.

23
24 We agree that there needs to be the inclusion
25 of an X-Factor in whatever model to indicate future
26 service standards and there also needs to be the
27 facility of other costs, as has occurred in this
28 regulatory period with things like FRC. Obviously,
29 with the transmission or the DUOS components that
30 we're looking at at the moment there's a significant
31 risk there and there are not a lot of things that we
32 can do to reduce the components due to demand or
33 energy. It depends on where that goes.

34
35 At the end of it we will be doing more
36 modelling and we'll put in a further submission, but
37 at the end of the day we would certainly support
38 further work on Option 3. We haven't really looked
39 closely at Option 4. Due to the minimal load growth
40 in our area, we haven't given any consideration to
41 Option 5.

42
43 MR OCKERBY: We would like to restate the two key
44 criteria which we assessed the five options on and
45 they were stable pricing and cost reflective pricing
46 and for us to be able to do it on a commercial
47 revenue stream over the course of the determination.
48 By that I mean as costs vary over the course of the
49 determination, so should revenues.

50
51 Could I briefly comment on 1 and 2. Our
52 position is that we would like to see these
53 essentially off the table in terms of Option 1. As
54 has been stated many times, the revenue cap has not
55 worked as expected. Revenue certainty has not
56 yielded price certainty and has not yielded prices
57 and revenues as to costs. Neither of our criteria
58 involves mechanisms and site constraints which drive

1 those two results.
2
3 In terms of Option 3, we would also like to
4 hear from the ORG about their reasons for moving
5 away. Our key issue here was the fact that it does
6 provide some very distortionary incentives on
7 pricing, given that you get an average price allowed
8 which is different from your actual prices.
9
10 Clearly, again it also does involve an error
11 correction mechanism and annual forecasting and
12 those will similarly drive some fluctuations in
13 prices which are just not economic. They are
14 regulatory based and that's more of an outcome for
15 consumers.
16
17 As stated in our submission, as to the first
18 consultation paper, we're supporting a single tariff
19 basket approach: that's Option 3. We had similar
20 concerns as to the drafting of the Secretariat's
21 paper and the inclusion of the Y-Factor. Our
22 initial interpretation of the Y-Factor was that it
23 would result in a revenue path which was amended
24 over the course of the determination due to price
25 and tariff growth. That is not as we understand the
26 ORG's model which we're working on. We think the
27 Y-Factor can be incorporated in an X-Factor.
28
29 Our reasons for supporting Option 3 - the
30 single tariff basket - is clearly that it fits our
31 criteria in that it offers price certainty for
32 customers. It does put substantial onus on the
33 DNSPs to move our prices to being cost reflective,
34 but our gains from doing that are reducing our risk
35 and maximising our earnings and there should be two
36 key drivers there.
37
38 The other reason we like it is it doesn't
39 involve an error correction mechanism. It has an
40 inbuilt structure within the forecast which it does
41 utilise, as is trying to be described, in that
42 Y-Factors are those which are included in the
43 building blocks. There is no additional forecasting
44 and there's no annual forecasting in the regulatory
45 reset.
46
47 The other thing to note in terms of Options 3,
48 4 and 5 in that regard is they both utilise the same
49 level of forecasting and each incorporate side
50 constraints and all three lack the need for an error
51 mechanism. We favour those.
52
53 In terms of Options 4 and 5 then it must be
54 said that these are not old methods; they are new to
55 us. We too don't recognise any regulatory precedent
56 for those and our modelling, so far as the outcomes
57 of 4 and 5 are concerned - particularly four - is
58 that it does not offer price stability. The

1 self-correcting nature of the revenue cap in
2 Option 4 will translate into significant price
3 changes for customers on an annual basis to
4 reconcile to the revenue cap.
5
6 There is a comment in the simplified derivation
7 here at the bottom of the page that over the
8 regulatory period the under and overs recovery are
9 likely to cancel each other out. I don't think
10 that's correct. I think the method tries to address
11 two types of demand changes. One is a step change
12 where the forecast is completely wrong, so we get
13 4 per cent as opposed to 2 per cent and it handles
14 that reasonably well.
15
16 What it doesn't handle are seasonal spikes in
17 growth forecasts. You can get circumstances where
18 you actually get a growth reduction spike in one
19 year due to seasonal changes and you actually
20 increase your revenue over the course of the
21 determination. That is clearly not what's intended
22 by that.
23
24 In terms of Option 5, we have a bit more
25 sympathy for this option if the coefficients can be
26 correctly estimated and we've heard some of the
27 issues that Mike raised. One of the problems we do
28 have with Option 5 is that come 1 July the Tribunal
29 could inform us that Option 5 is the way forward,
30 but setting the parameters of that G-coefficient are
31 critical to the outcomes. You can structure G such
32 that it's Option 4 and we end up with all those
33 problems associated with the revenue cap and price
34 variability.
35
36 It could potentially not suffice, the two
37 criteria we're trying to achieve. We would be keen
38 to work with the Tribunal in establishing what those
39 coefficients might look like and how they reflect
40 prices. Thank you.
41
42 MR CREES: Basically, I'll just go over what I said this
43 morning in the earlier session about circumstances
44 placed on ORG at the time. We did have a revenue
45 yield that was covered by the tariff order. The
46 problems we saw with that, which were articulated by
47 EnergyAustralia at the start of the year, were the
48 average revenue or average price was pretty much set
49 using forecasts.
50
51 From that the major incentive for the
52 distributor was to increase volume because the more
53 volume they put through the more revenue they got,
54 by the fact that the following year there would be a
55 correction mechanism, which meant they would
56 actually earn their allowed average price asset for
57 that particular year.
58

1 We moved away from that to the tariff basket.
2 Any additional units of energy or customers added to
3 the network would earn the actual price of that, so
4 that, in effect, marginal revenue equalled price.
5 We felt that that was a stronger incentive for
6 distributors to price efficiently.
7
8 The one other thing which was picked up in the
9 paper is that it does provide scope for the
10 distributors to set higher prices where the demand
11 growth is stronger and that is true, but we felt
12 that if you're going to be setting higher prices
13 where there's stronger demand growth, that could
14 effectively lead to a dampening of that growth in
15 demand through the fact of higher prices.
16
17 The tariff basket is good in the way that it
18 uses actuals. However, there are limitations that
19 need to be pointed out when introducing new tariffs.
20 It is the fact that if a new tariff or new tariff
21 component is introduced in a particular year, there
22 are no actuals for that.
23
24 There still does need to be some form of
25 estimates, if you like, which through the
26 Commission's model it is probably not necessary or
27 needed to correct for. That is just one thing that
28 probably needs to be pointed out. That is one of
29 the administrative issues that we face down there
30 and hope that it is not always actuals. That is
31 pretty much all I have to say.
32
33 MR COX: Do you want to comment on the Y-Factor?
34
35 MR CREES: I agree with EnergyAustralia's viewpoint. We
36 include the X and Y-Factors in that. "X" is derived
37 from the building blocks plus the forecast in
38 demand. We could have separated that as well but we
39 chose to keep them together.
40
41 DR BARR: With the range of revenue options I look at
42 the signals they give to the distributors and the
43 drivers that apply on them and then look at the
44 following impacts on customers. There are good and
45 bad things that need to be considered with all of
46 them.
47
48 The idea that the revenue caps provide an
49 incentive to reduce costs I think is an excellent
50 feature of this. A dollar saved in operating costs
51 falls down to the distributor and eventually some of
52 that will be cast back to customers through these
53 procedures and I think that's good for the community
54 in total.
55
56 Some of the signals in some of the models will
57 encourage distributors to go out and connect new
58 customers, to go and find new customers, to go out

1 and market, and some would actually provide
2 incentives to cut customers off - disincentives to
3 connect customers. Those are drivers that need to
4 be considered. Some of the models would encourage
5 the distributors to go out and sell more energy and
6 some models would encourage them to sell less energy
7 and these are drivers, that ultimately have an
8 impact on customers, that need to be considered.
9
10 I go back to the point I made earlier about
11 under-investment in networks. There are isolated
12 pockets in many networks that I believe require
13 development. Are there drivers in here for a
14 distributor to go and invest in key part of the
15 network? I see no incentives whatsoever. That
16 needs to be carefully considered.
17
18 There are incentives in this process to cut out
19 over-investment because if over-investment is made
20 in the network, it will come through the valuation
21 process and the optimisation part of that valuation
22 process is a real driver to cut back gold plating on
23 the network.
24
25 We don't have a reverse where there's
26 under-investment. I see no incentives to improve
27 the quality of supply to customers where that is
28 required. There are some parts in networks where
29 customers would benefit from quality of supply
30 improvements. I see no incentives for liability
31 improvements. We are talking about pure revenue
32 numbers here and we've isolated the things the
33 networks are designed to do.
34
35 I see no drivers for network owners to manage
36 their networks well to reduce losses that involve
37 some operational aspects and some capital
38 investments, some capex expenditures. We have to be
39 careful of the signals that we give to distributors
40 as to the drivers that we require and the impacts on
41 customers. That is the point I would like to make.
42
43 MS SKUTA: The Ministry appreciates IPART's intention to
44 improve its methodology of regulating pricing in the
45 industry and we would be closely monitoring the
46 approach that it does take in the future. With
47 respect to what impact it will have on how pricing
48 is approached in the future, the Ministry does not
49 intend to comment.
50
51 MR DUNSTAN: One of the things that struck me as we
52 went around the table was the networks themselves
53 obviously put a lot of time into understanding this.
54 We have a very sophisticated and well informed view
55 on these issues. If you listen to everyone else
56 around the table they're struggling, a bit like me,
57 to understand exactly what each of the formulas mean
58 and then, if you get that far, what the implications

1 of them may be. I don't exclude myself from that.
2
3 The first issue in terms of good regulation -
4 as Jim Wellmore mentioned - is in terms of
5 simplicity. In terms of the way in which the
6 options have been presented, they are not all
7 presented in a consistent way. For example, the
8 revenue cap is presented in terms the details of
9 which I won't go in to.
10
11 There is not a consistent presentation there.
12 Even with the ones that are presented in a
13 consistent manner I think there's significant scope
14 to make them easier to understand. I think at the
15 very least the customer representatives should be
16 able to access that. I am sure they could if they
17 had the time, but they're probably a bit like me in
18 the amount of time available to them.
19
20 I think there is scope for that and that that
21 probably should happen in the next month or two. In
22 terms of changing from the existing form of
23 regulation, obviously what we're trying to do is
24 retain the best elements of the existing one and
25 remove some of the worst aspects.
26
27 From that point of view, we need to be
28 addressing what are the problems, whilst also being
29 conscious of the problems that have been addressed
30 under the current form but don't present themselves
31 because they're not a problem at the moment.
32
33 Mr Martinson from EnergyAustralia listed their
34 concerns in terms of volume, risk. There is the
35 issue of dealing with under and overs. There is the
36 shortfall in terms of not sufficient revenue to
37 cover the capex that's required because of the
38 increasing demand.
39
40 In terms of the previous criteria, I think we
41 need to be identifying the perceived problems and
42 addressing those quite specifically in how we assess
43 the options.
44
45 In terms of the specific options, as Rohan
46 mentioned, the way that they are put together is
47 that for each of them you need to figure out what
48 the appropriate level of revenue is first and then
49 you do some sort of a manipulation to it to
50 ultimately get what the customer sees, which is
51 price. From that point of view, we need to have the
52 clear understanding of what is driving costs and
53 ultimately, therefore, driving the requirement for
54 revenue.
55
56 Option 2, the revenue yield, the weighted
57 average price cap and I guess 4 and 5 - although
58 there are adjustments in that - are all focused on

1 that key term in "Q", that is, the quantity of
2 kilowatt hours and for network businesses, as we all
3 know, kilowatt hours does not directly drive costs.
4 We use kilowatt hours because it is not a bad proxy
5 for what does drive costs, which is I guess,
6 firstly, peak demand and, secondly, customer
7 numbers. I think there is some sense in doing that.
8
9 If you simply were to make your price
10 calculations driven by peak demand, then you need to
11 look at the incentives that that is providing. Peak
12 demand jumps around. It is highly volatile, much
13 more volatile than kilowatt hours sold, but moreover
14 if you were to charge on peak demand then your price
15 goes up with the peak demand and that is not what we
16 want to see, we don't want to provide incentives for
17 networks to bump up peak demand, that is completely
18 the wrong direction.
19
20 Similarly, nor do we want to be providing
21 incentives for networks to bump up kilowatt hour
22 sales. I have heard from networks in the past that
23 kilowatt hour sales is beyond their control.
24 Largely it is but in significant respects,
25 particularly in terms of pricing policy, there is
26 influence of networks on the kilowatt hours sold.
27 We need to be very careful if we are moving towards
28 any formula that bases the return in terms of price
29 or revenue on factors that the networks themselves
30 have an influence over.
31
32 In terms of the specific options, option one on
33 revenue regulation, the pure revenue cap, there are
34 some problems that have been identified and I think
35 that they should be addressed, so let's maybe move
36 beyond that. The revenue yield cap does not seem to
37 have a lot of support from anyone here, and I would
38 endorse that, because it provides - it is tied very
39 closely to kilowatt hours and I think everyone has
40 recognised the problems with that. Weighted average
41 price cap takes a step away, and for the first time
42 courtesy of Sean's explanation I understand the
43 difference, I think, between the incentives created
44 under the revenue yield and the weighted average
45 price cap. I think it is a step in the right
46 direction but it still leaves that incentive for
47 networks, where they can, to in the short term
48 increase their sales, particularly where it does not
49 increase peak demand.
50
51 Number four, self-correcting revenue cap,
52 obviously addresses the unders and overs problem but
53 does it with a fairly blunt instrument if I
54 understand it correctly. It says you need to adjust
55 fully for the discrepancy between your allowable
56 revenue and your actual revenue in year one in year
57 two. That would lead to prices bouncing around
58 quite a bit and I can understand customers getting a

1 bit confused to say the least as to what was going
2 on. I think there needs to be a smoothing allowance
3 over a number of years so you don't have prices
4 jumping around higgledy-piggledy.
5
6 That leaves us out of these options with the
7 fifth one, and I think that is closest to something
8 that we should be working towards, with one proviso,
9 and that is the one I mentioned before, the G
10 factor. It says here the revenue requirement is
11 linked to one or more observable marginal cost
12 drivers. For example, aggregate demand, meaning
13 energy sales, throughput, and I think we need to be
14 careful how we analyse that, so kilowatt hours is
15 one, customer numbers and peak demand are others.
16
17 If it were to be on kilowatt hour sales, that
18 creates problems in terms of discouraging energy
19 efficiency and behaviour that increases kilowatt
20 hour sales. At least in the short term in terms of
21 customer numbers, there is some scope for gaming
22 there but that would not in itself address the
23 concerns that EnergyAustralia has faced in terms of
24 over-recovery on unders and overs and not getting
25 the revenue it needs to invest as they see it. And
26 also peak demand, if we were to tie it to that,
27 creates some strange and perverse incentives.
28
29 In terms of other drivers or proxies for what
30 actually drives the costs, one I would like to
31 suggest is economic growth because in terms of the
32 forecast error, or errors that are being seen,
33 particularly in the case of EnergyAustralia, it has
34 been suggested that part of that is due to a
35 forecast error that may or may not have been partly
36 deliberate in terms of gaming, as was the
37 suggestion, but probably more importantly economic
38 growth has been faster than anticipated and I think
39 it is quite legitimate where it is driven by
40 economic growth that we should consider an
41 adjustment on that basis because in terms of revenue
42 the economy is growing, people have more money in
43 their pockets.
44
45 And there is the reverse. We should not forget
46 that just because we have been in a period of boom
47 that the reverse can happen. What are the
48 consequences of this form of regulation if we hit a
49 recession? Some of the concerns we have expressed
50 here would be quite the reverse if we had a
51 different economic climate over the last few years.
52 If you were to tie it to economic growth, that has
53 some significant benefits if you do go into an
54 economic downturn because it means effectively you
55 need to reduce your prices in a time of economic
56 downturn or at least the impact on customers through
57 bills. I just leave that suggestion with you.
58

1 There were a number of issues about what you do
2 about adjustments, whether it be the revenue target
3 not actually being met or the price basket target
4 not being met. We should not forget that if we
5 don't have a simple price cap that there will be
6 errors, differences between actual and forecast
7 outcomes on the price basket as well.
8
9 I think there are other options in terms of
10 addressing the unders and overs question as well.
11 For example, the very simple approach is to do it at
12 the medium term review and leave it until then.
13 There are also other options, as Bob Lim has
14 suggested, in terms of a sinking fund so that if
15 there is a huge over-recovery happening, whether it
16 be under the context of some sort of price cap or
17 revenue cap, perhaps that could go into a separate
18 fund which could then be returned in times of
19 under-recovery or be directed to what is causing the
20 problem in the first place, to reducing demand, peak
21 demand or energy consumption, which is an issue I
22 guess that could be considered by IPART's demand
23 management review or inquiry.
24
25 The last comment I make is to try to bring it
26 back to earth, that we need to be conscious that
27 there are a whole range of other regulatory reforms
28 underway at present. For example, the Government
29 has announced an intention to have a stronger
30 enforcement regime for the greenhouse emission
31 benchmarks on electricity retailers and I think it
32 would be very unfortunate if we create a system
33 where there are incentives for the networks in terms
34 of increased kilowatt hour sales that is
35 diametrically opposed to the incentives being given
36 to retailers in terms of trying to reduce greenhouse
37 emissions through reducing electricity sales,
38 whether that be through switching from electricity
39 to gas in various applications, whether it be
40 through energy efficiency programs in residential or
41 for business customers or whether it be through
42 things like co-generation. So we just need to be
43 mindful that we are not driving parts of the
44 business in opposite directions.
45
46 I will leave it at that.
47
48 MR ROLLO: The word that I have got apropos the
49 sensitivities is struggling. They are all a little
50 bit struggling with the mass, although I am
51 appreciative of the detail in some of the
52 attachments. I have a couple of high points to
53 highlight. If there is a change in the form of
54 regulation, transmission issues should be keenly
55 thought through and they will be different for
56 different forms of regulation.
57
58 I did think that the inclusion of a tracked

1 growth factor is a very useful part of smoothing and
2 bringing to bear less volatility in this scene. I
3 feel that what needs to be recognised still is that
4 among those five options there is a difference
5 between a revenue capping and a price capping. That
6 is a fundamental issue we have to bear in mind.
7

8 Revenue capping will provide an efficiency
9 incentive that is constantly borne presently. Price
10 capping will provide comfort to parties that are
11 seeking to retrieve costs incurred but the
12 investigation of those costs incurred will be very
13 much post the event, so there is a difference in the
14 soul there that needs to be talked through.
15

16 I also am aware of the diversity of interests.
17 The flexibility that needs to be provided in tariffs
18 to fit these forms of regulation is quite different
19 for different purposes, metropolitan versus rural,
20 whatever, and you need to have enough flexibility in
21 the setting of those tariffs following on from
22 whatever regulation is set so that the drivers in
23 those areas, low growth inland or the spotty city
24 scene, is enabled and these efficiency drivers and
25 demand drivers and other incentives that we have out
26 there such as greenhouse and so forth are
27 recognised.
28

29 At the end of the day the major influences on
30 the resolution of these forms of regulation will be
31 the X factor prudency test in its application within
32 these cases and ultimately the reset frequency, the
33 regulatory reset frequency, so whether you go to a
34 future four-year or one- or two-year result,
35 quarterly attempts to chase this growing number or
36 whatever, they are all a very fundamental part of
37 what is chosen.
38

39 As to whether one, two, three, four or five is
40 best, I really don't think we have yet considered
41 that closely enough. I do not reject one as a
42 totally unacceptable solution. It has created
43 certain difficulties in the forecast and growth
44 period that we have recently seen but as a method it
45 is one that we need to think about maybe enhancing,
46 and some of the proposed directions here may well
47 provide that. Five promises much, but it needs more
48 work.
49

50 MS BRAKEY: I want to clarify a point that relates to
51 the Y factor. The Y factor was put in as a Y factor
52 for illustrative purposes only and if the tribunal
53 were to adopt that, it just decomposes the old X
54 factor into what our current X factor is but
55 recognises that it has another element to it as
56 well. We put it in only to show that the X factor
57 under that form of regulation is not the current X
58 factor that the tribunal has adopted. That is the

1 only reason why the Y factor is put in, it
2 represents a decomposite of the X factor and going
3 forward we would not have an explicit Y factor.
4

5 In their determination I note that ORG did
6 decompose that into a number of issues and so the
7 tribunal may manage to do that in its final
8 determination. However, the Y factor is for
9 illustrative purposes only.
10

11 MR MELHUIH: Can I just add, the X factors are
12 different under revenue-based form of regulation
13 versus a price-based form of regulation. It is in
14 their as a separate factor, I emphasise that.
15

16 In attachment 2 there is some derivation of the
17 difference between a revenue-based form of
18 regulation and a price-based form of regulation.
19 That is also explained on page 2 of the paper that
20 was distributed today. There are differences
21 between the X factors under the various forms of
22 regulation and particularly under a price-based form
23 of regulation and a revenue-based form of
24 regulation.
25

26 A quality of service factor could be
27 implemented with any form of regulation. It is not
28 a critical component of the form of regulation at
29 this stage but it is something that the tribunal
30 would consider in the next price determination, that
31 it could be incorporated into any form of
32 regulation.
33

34 Also I think the discussion paper for today did
35 mention that there has to be a mechanism for pass
36 through of transmission costs, miscellaneous charges
37 and other costs. They could be accommodated under
38 any of the forms of regulation.
39

40 One other point about the volatility of prices,
41 in each of the models we have used one year's lag
42 demand but it is possible under any of those forms
43 of regulation that gives a lag demand to actually
44 use an average of past rates of growth or past
45 quantities to dampen any volatility if we wanted to
46 introduce growth price stability. That is relevant
47 to options four and five.
48

49 With the G factor you could use an average
50 price growth rate and a composite of that.
51

52 MR COX: Any further comments?
53

54 MR MARTINSON: A few points. I guess from what I have
55 heard from Sean that has provided some good
56 information about ORG's thinking with the weighted
57 average price cap. Just to clarify, we provided a
58 detailed technical paper to the secretariat that

1 addressed issues like S factors, pass through costs,
2 new tariffs. And I guess on the issue of new
3 tariffs, while I take the point that is an area of
4 concern or an issue that has to be dealt with, the
5 weighted average price cap, I do not believe that is
6 any different for options four and five. If there
7 are new tariffs, you may still have to review the
8 actuals. That applies to all models.
9
10 I guess the second point is that I sympathise
11 with everyone around the room, particularly the non
12 DNSP people. We have been working on this for two
13 years and we are having a really hard time coming to
14 grips with options presented to us two weeks ago, so
15 I sympathise with others.
16
17 The weighted average price cap: We believe
18 that is far superior in setting efficient prices.
19 When we look at all the other things said, that is
20 one of the key points.
21
22 I just wanted to pick up on what Jason Ockerby
23 mentioned earlier, that we believe that if the
24 tribunal does select option five as the preferred
25 model it is absolutely critical that what is in that
26 G factor is actually established now as part of the
27 determination for June 30 this year because whatever
28 that G factor is is critical to whether the model is
29 more like a price cap or a revenue cap or in
30 between, so I take the point that if the view is we
31 can get the model across the line then and worry
32 about the coefficients later, we would raise some
33 serious reservations about that approach.
34
35 Lastly, I have heard a few comments about a
36 sinking fund. I think it looks and smells like an
37 unders and overs account and I am not really
38 attracted to that model. Thank you.
39
40 MS TERRI BENSON: With option five, while we said it is
41 worthy of investigation, it is dependent on what the
42 G factor is. For any level of certainty, we would
43 need to discuss how those components of the G factor
44 and particularly the weights are determined.
45
46 MR OCKERBY: The other point, on a similar line I guess,
47 the tribunal has decided to leave aside the issue of
48 side constraints. That is problematic because
49 options 3, 4 and 5 each involve a degree of price
50 volatility and that translates in the DNSPs into
51 earnings volatility. If, for example, in an early
52 year in the determination we were to experience a
53 growth reduction, some seasonal impact, it will send
54 us down on a price trajectory that we may never be
55 able to recover from due to the side constraints.
56 They are critically interrelated to this issue, so
57 while there may be some other issues we would like
58 to see in the decision some understanding of how the

1 side constraints impact on the sort of incentives
2 and outcomes of each of these three.
3
4 They may not yield the incentives and outcomes
5 in terms of certainty but we think they will because
6 of price side constraints. That is critical in the
7 revenue cap position. The side constraints for
8 those that are under-recovered are the form of
9 regulation and for those that are over-recovered,
10 the rules in the overs and unders account balance
11 are the form of regulation to set the prices. I
12 don't think that was envisaged at the time.
13
14 MR LIM: Just a question to the Essential Services
15 Commission spokesperson. Is their efficient pricing
16 to reflect peak demand in Victoria the equivalent of
17 the option three IPART paper?
18
19 MR CREES: Are there efficient prices for demand?
20
21 MR LIM: Yes, for high demand or peak demand periods.
22
23 MR CREES: We have seen a couple of the distribution
24 businesses under the new tariff basket approach
25 particularly identify peak demand and pricing of
26 peak demand, especially in the summer period in
27 Victoria where it is quite peaky, so we believe the
28 tariff basket has allowed for the DBs to target a
29 particular area and a couple of them thus far have
30 done so.
31
32 MR LIM: That is interesting because I have heard of
33 anecdotal information that one DB is actually
34 offering cheap loans to purchase airconditioners.
35 Obviously we will get to the bottom of this but it
36 is interesting. If that is happening under the
37 tariff basket then I will be very cautious about
38 leaping to that immediately.
39
40 MR DUNSTAN: Can I just clarify, Sean, does that mean
41 that there is essentially seasonal demand prices in
42 Victoria?
43
44 MR CREES: Yes, one company has put it in. One company
45 has a summer demand, from November to March, those
46 five months, and there is an extra demand charge.
47
48 MR DUNSTAN: Is there a significant difference between
49 the two halves of the year?
50
51 MR CREES: No. It is around about 10 per cent extra,
52 that charge.
53
54 MR DUNSTAN: Is that a monthly demand charge or
55 annual peak?
56
57 MR CREES: Monthly, and measured between hours of the
58 day.

1
2 MR MELHUIISH: A number of comments about the
3 complexity of the models. I might just mention that the
4 analysis of the incentives under each of the models
5 is far more complex. There are a number of factors
6 that we need not really talk about today. One of
7 them is the relative growth between different tariff
8 classes, the pricing structure. There is also the
9 fixed costs and the marginal costs and the ratio
10 between those. There are also issues of elasticity
11 of demand. It does introduce a whole range of
12 questions of capacity of DNSP affecting demand under
13 various tariff classes, what the pricing structure
14 is and what the incentives created by the pricing
15 structures are.

16
17 Can I just make one comment on the weighted
18 average price cap. Sean made the comment that there
19 is an incentive to increase price in the tariffs
20 where growth is highest. Is that correct?

21
22 MR CREES: Yes.

23
24 MR MELHUIISH: I just throw in the thought that that is
25 fundamentally contradictory to the idea that a
26 weighted average price cap encourages efficient
27 pricing. You increase prices where that growth is
28 highest and that isn't necessarily in those classes
29 where the costings are.

30
31 MR CREES: It is where the weightings change.

32
33 MR MELHUIISH: It is not necessarily to align prices with
34 costs.

35
36 MR HIRD: It is not necessarily consistent, although not
37 inconsistent, if higher growth is occurring in areas
38 that are forcing costs up, efficient to increase
39 your prices for those elements of supply that are
40 increasing demand. On top of that - that is one
41 issue - that is an endogenous or exogenous increase
42 in growth. Obviously, if you can't control that
43 growth you might change your prices to respond to
44 that growth to increase your revenue, but the real
45 efficiency driver for pricing is where you can
46 influence demand; and where you can influence demand
47 then your incentive is to reduce prices on those
48 that you can influence most significantly towards
49 marginal costs. That is fairly clear.

50
51 Also, I suppose I would like to add that, just
52 looking forward one year, in each of those three,
53 four or five options precisely the same incentive
54 exists to respond to changes in demand, so to an
55 extent it is regarded that that is something
56 necessary, demand growth, and the incentives to
57 respond to that under a weighted average price cap
58 are equally a problem with options four and five.

1
2 MR OCKERBY: I am not sure that it was the tribunal's or
3 secretariat's not understanding that those
4 incentives only exist in only three or whether those
5 same incentives exist in four and five. In fact, it
6 goes further than that. Option three actually gives
7 us the incentive to minimise our risk through
8 structuring our prices to reflect our variable and
9 fixed costs whereas option five gives us essentially
10 the hybrid formula, structured correctly, actually
11 gives us a certain revenue to reflect our costs,
12 gives us lots of certainties regardless of how we
13 price.

14
15 There are some quite uneasy incentives in four
16 and five that are not there in three.

17
18 MR COLEBOURN: Harry Colebourn, EnergyAustralia.
19 There has been a lot of discussion today about the pricing
20 control mechanism being symmetrical, that is, if
21 there is an increase in growth, the revenue would go
22 up and it would be marked by an equal change in a
23 downward direction. The point I want to make is
24 that the DNSPs costs are not symmetrical. When
25 growth goes up, sure there is an additional capex,
26 an additional opex in order to provide for those
27 additional customer connections and to augment the
28 system, but in the reverse direction it is not the
29 equivalent, there is not an equivalent reduction in
30 costs. The opex would remain largely static and the
31 capex could not be cut back to the same extent. I
32 think that needs to be factored into the choice.

33
34 MR COX: I think if there no further comments we will
35 try to wrap up the session now. I will ask Anna in
36 a moment to speak about the next steps but in terms
37 of the discussion, firstly, I have a lot of sympathy
38 with people who are saying, "hey, what we have
39 talked about is only one path of regulation, it
40 matters what the side constraints are and what the X
41 factor is and what the service quantity factors
42 are".

43
44 They are all very important aspects that we
45 have not considered today but we do need to bear in
46 mind that they are important in terms of what we are
47 considering about the form of regulation. I also
48 have a lot of sympathy for people saying they find
49 the subject very hard to understand. I do too.
50 Minor changes in the formula seem to have major
51 difficulties for people. We do have to see what we
52 can do to communicate or redouble our efforts to
53 communicate effectively on those issues.

54
55 I also note that a lot of people say that more
56 analysis is needed and I think that is right. We
57 need to do that. In terms of those able to say what
58 their preference was, there was a message that

1 option three seems to have more support than the
2 others, though there were I think three or four
3 people who said we should look at option five as
4 well, without specifying what the G factor problem
5 there is. We take that message on board.

6

7 Obviously I don't think we have reached a final
8 position today. We need to keep on talking about
9 these sorts of issues but we are grateful to you for
10 your time and trouble and comments and we have
11 listened to what you have had to say. I pass on to
12 Anna to talk about what will happen next.

13

14 MS BRAKEY: Quickly to recap, if you would like to
15 provide supplementary written comments to back up
16 what has been discussed today, please do so. If you
17 could get those to us by next Thursday, 28 February,
18 that gives the tribunal the opportunity then to go
19 away and consider the issues and then come up with a
20 draft report in about 6 weeks on the form of
21 regulation and then there will be further
22 submissions called on that draft report.

23 Unfortunately, there is a firm deadline on that of
24 30 June and we can't go beyond 30 June, so we do
25 need to resolve the issues within the next couple of
26 months. That is a plea to meet the deadlines that
27 we set.

28

29 MR COX: Once again, thank you for your attendance.

30

31 (At 12.30pm the forum concluded)

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