National Grid Presentation 5 July Ofgem Workshop

Agenda

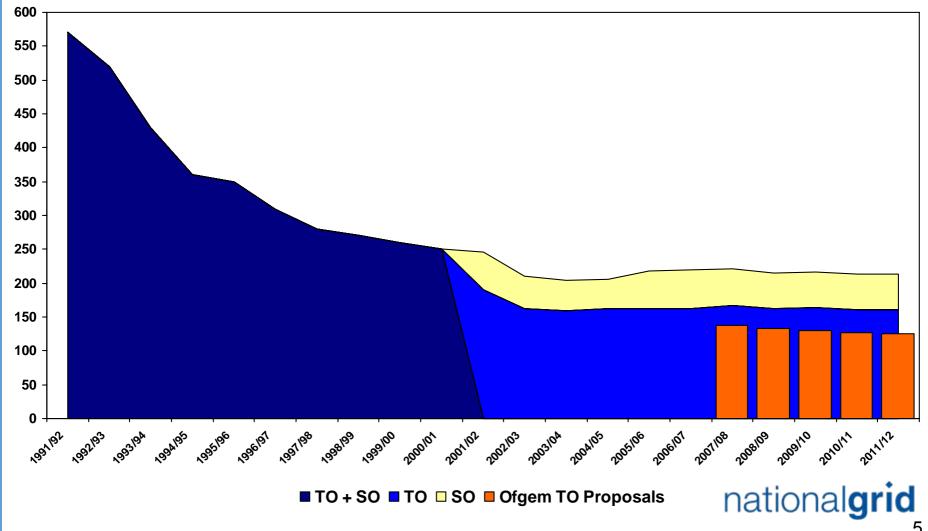
- Opex
- Capex
 - Load-related and adjustment and incentive mechanisms
 - Non-load
- Financial Issues
- Overall impact on consumers

Opex

Electricity and Gas Opex Ofgem's Initial Proposals

- NGET
 - 2004/05
 - 16% "Normalisation" reduction
 - From this revised 2004/05 base Ofgem then factor in
 - A further 9% reduction from 2007/08
 - Increasing to 17% by 2011/12
- NGGT
 - 2004/05
 - 6% "Normalisation" reduction
 - From this revised 2004/05 base Ofgem then factor in
 - A further 8% reduction from 2007/08
 - Increasing to 16% by 2011/12

Electricity TO Opex The Gap Between Us



Why The Gap?

- "Normalisation" of 2004/05 is flawed
 - Normal costs deducted as if they were "abnormal"
- Projecting forward from 2004/05
 - Only partial recognition of "quasi capex"
 - No recognition of system expansion and asset condition upward drivers
 - No recognition of real pay growth in the economy
 - Future efficiencies contain overlap, error and arbitrary exclusions
- Reducing activity levels to align with Ofgem's targets would lead to reduced network reliability

Load-related capex

Load-related capex in the round

- We agree on the desirability of using revenue drivers/adjustment mechanisms for 'uncertain' spend
- However, still need a baseline projection for loadrelated capex for
 - Financial modelling
 - As a baseline for adjustment
- Deal first with baselines and then with the adjustment/incentivisation mechanisms

Ofgem's proposals - electricity

- 2000/1-2004/5
 - Deemed efficient
- Deductions from our 2007/8-2011/12 plan
 - 13% "entry volume adjustment"
 - 2% "avoidable early replacement"
 - 4% "double counting"
 - 6% "scope for improved procurement" / above inflation unit cost increases for further review"
- 2005/6 and 2006/7
 - Treated as forecast years, thus deductions broadly consistent with Ofgem's treatment of our 2007/8-2011/12 plan

Ofgem's proposals - gas

- 2001/2-2005/6
 - £75m of investment re increased entry capacity at St Fergus deemed inefficient
- Deductions from our 2007/8-2011/12 plan
 - 58% "entry volume adjustment"
 - 8% "scope for improved procurement" / above inflation unit cost increases for further review"
- 2005/6 and 2006/7
 - Treated as forecast years, thus deductions broadly consistent with Ofgem's treatment of our 2007/8-2011/12 plan
 nationalgrid

Our initial response (1)

- We need detailed feedback from Ofgem to comment on their assumptions
- 2005/6 and 2006/7 are completed/contractually committed and so PCR should update for this information
- Ofgem's treatment of our procurement costs is hard to justify in the face of an inflationary market place
 - Steel costs
 - Pipeline build programme
 - Utility investment programmes
- As with non-load investment, need to reach agreement on likely future trend of unit costs

Our Initial response (2)

- We expect revenue drivers to deal with uncertainties but large proportion of load related investment is "validated":
 - Capacity rights purchases through gas entry auctions
 - Agreement of ARCA for gas exit
 - Bilateral agreements and commitment to Final Sums for electricity entry and exit

Adjustment mechanisms and incentives

Ofgem's proposals

- Increased used of revenue drivers to deal with uncertainty
- Baselines set on the basis of actual system capability
- Simple or sophisticated UCAs
- Five year rolling incentives
- Assumption of interruption or capacity swap before investment
- Increased use of penal-only incentive schemes
 - Implicitly for new investment
 - Explicitly for electricity network reliability
- Question mark over extent to which investment purely and mechanically driven by user commitment

Our initial response

- Supportive of overall approach but current package not acceptable, not least because
 - Gas baselines above actual system capability
 - UCAs lower than likely investment costs plus exposed to these for up to two price control periods
 - Proposed timing of incentive-driven cash flows could exacerbate financeability issues
 - Potentially huge downside on proposed gas investment incentive
- Overall
 - Proposals align poorly with our overall licence obligations
 - Downside dominates

Non-load related capex

Ofgem's proposals - electricity

- 2000/1-2004/5
 - Deemed efficient
- Deductions from our 2007/8-2011/12 plan
 - 26% "lower level of asset replacement and refurbishment is required with more efficient unit costs"
 - 9% "scope for improved procurement" / above inflation unit

cost increases for further review"

- 2005/6 and 2006/7
 - Treated as forecast years, thus % deductions are as for the 2007/8-2011/12 plan
- Ofgem's Initial Proposals (2005/06 2011/12):
 - 33% cut in overhead lines investment
 - 27% cut in switchgear investment
 - Further £128m cut in other plant types
 - Further procurement efficiency of £114m

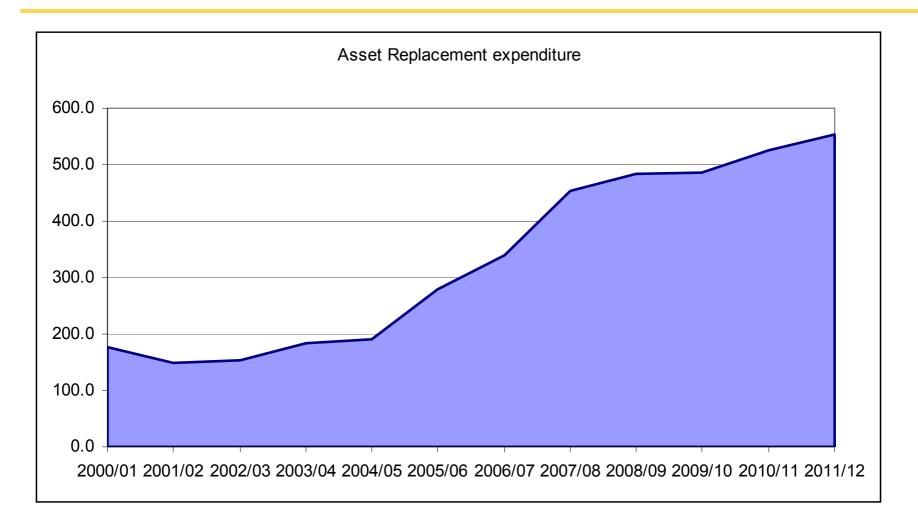


Our initial response

- Need detail on the basis for Ofgem's proposals but our own view is unchanged
- We are a responsible asset manager
 - Had to overspend to maintain reliability and to operate efficiently
 - Risk taking vs benefit of less asset replacement not economic to UK
- We have set out what we believe is required to maintain network performance
 - Based on robust, extensive asset condition information
 - In context with the scale and age of the network

Asset replacement investment profile

Scale of expenditure forecast is large relative to the *recent* past...



Asset replacement investment profile

... but **not** large in terms of the lifecycle and size of the network

Replacement cost of relevant part of network ≈ £15.5bn

Condition-informed weighted asset life of relevant network assets ≈ 46 years

Majority of relevant assets installed between 1961 to 1970

- Replacement rates
 - Recent historical replacement rate ≈ £150m p.a.
 - Long-run steady state ≈ £335m p.a.
 - Installation rate ≈ £900m p.a.
 - Our plan ≈ £500m p.a.

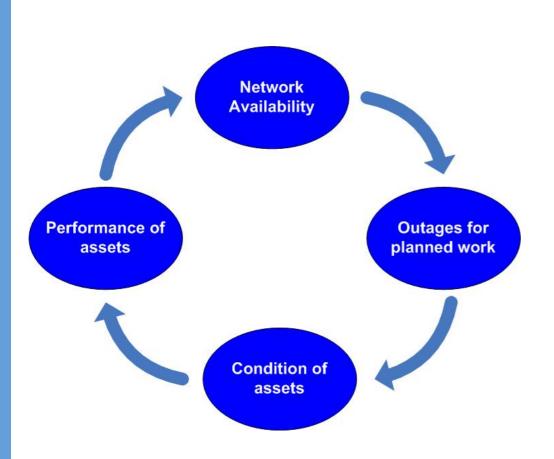
Why is our investment plan as it is?

- We understand
 - The condition of our assets and impact of assets failing
 - The drivers and rates of deterioration of those assets
- The asset replacement plan is based on assets being replaced just before the probability of failure becomes unacceptable
 - Assets replaced on the basis of specific, detailed condition information
 - Capital plan kept under constant review to reflect latest condition information
 - Replacement plans only identify sufficient replacement to maintain the existing performance of the network

Short term consequences of spending less

- More assets at risk of failure
- Increased risk of loss of supply
 - Wide impact on consumers
 - Long time to replace or repair failed assets
- Increased risk of safety and environmental incidents

Long term consequences of spending less



- Increased asset failures
- More unplanned work
 - Increased opex and capex costs
 - Increased outage/ resource constraints
- Ultimately, deterioration of network beyond the point of recovery

Ofgem's proposals - gas

- 2001/2-2005/6
 - Deemed efficient
- Deductions from our 2007/8-2011/12 plan
 - 30% of our emission reduction investment plan
 - 33% less asset replacement
 - 5% overall deduction for "scope for improved procurement"
- 2005/6 and 2006/7
 - Treated as forecast years, thus deductions broadly consistent with 2007/8-2011/12 plan

Our initial response

- Need detailed feedback but our own view is unchanged
- Our forecast sets out what we believe is required to
 - Meet legislative requirements with respect to emissions
 - Maintain the existing assets in serviceable condition to maintain security of supply
- Consequences of spending to Ofgem's plans
 - Loss of flexibility in network

Financial Issues

Rate of return/financeability

- Early days on this
 - Main Ofgem RoR advice due for August
- Points to note at this stage
 - Pleased that Ofgem intend to deal with the NGET depreciation 'cliff face'
 - DPCR4 RoR at top of relevant range because of the investment focus of the review - not obvious why this should not apply to TPCR
 - Major proposed break with DPCR4 (and with most other price reviews of the last ten years) on treatment of financeability – viz. any financeability issues assumed to be dealt with via equity injection
 - Issue of the implications of this for RoR, both
 - 'Narrow' transactional costs raised by Ofgem and
 - Potential wider impact on the nature of the National Grid investor base

Pensions

- Proposals on 'legacy' pensions inconsistent with
 - Ofgas encouragement for Centrica divestment
 - Options available at the time on pension splitting
 - Practice at the time on risk sharing
- Proposals on ERDCs
 - Intrinsically unreasonable
 - Inconsistent with both the outcome of DPCR4 and the reasons given for that outcome
 - Appear to disincentivise honest and full provision of information to Ofgem

Summary

Purpose of our spending plans

- Facilitate markets through network reinforcement and extension
- Maintain network reliability
- Maintain or improve the safety, physical security and environmental performance of the networks

while operating efficiently

Consumer cost and benefits

- Incremental price impact of our plan on domestic consumers
 - £2.20 p.a. for Gas consumers
 - Of which increased replacement capex = 10p
 - •£1.25 p.a. for Electricity consumers
 - Of which increased replacement capex = 25p
- Benefits
 - A network that responds to market developments
 - The reliability that we believe customers expect
 - Responsible safety and environmental performance

End