

# Initial thoughts on charging for overrun

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WG1

# Overrun Introduction

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- ◆ Why?
  - ◆ The delay in waiting for wider reinforcement
  - ◆ Intermittency – need to exchange in the short term
  - ◆ Low load factors, more natural sharing
  - ◆ Choice
- ◆ What is it?
  - ◆ Export above firm access level
- ◆ What other charging changes required?
- ◆ Settlement process?
  - ◆ Credit requirements?
- ◆ How do we charge for it?
  - ◆ Simple / approximate v's complex / accurate
  - ◆ Cost recovery or marginal pricing – is it a signal?
  - ◆ IS requirements
  - ◆ Information timescales- who much did it cost me?

# Assumptions

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- ◆ Exercise of locational market power is an Ofgem issue
- ◆ Overrun works alongside a range of products
  - ◆ Sharing & bi-lateral transfer
    - ◆ Point to Point trading (Cap68)
    - ◆ Within zone sharing 1:1
  - ◆ SO non-obligated release
  - ◆ A long-term zonal product
- ◆ Common zones for all products

# Other charging changes

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- ◆ Need some form of local asset charge
- ◆ Commoditisation of the residual (MWh)
  - ◆ Basic revenue recovery, covers all costs
  - ◆ All users should contribute to 'sunk costs'
  - ◆ Charge proportional to load factor
- ◆ Settlement similar to BSUoS
  - ◆ Close interaction with constraint cost and system cost
  - ◆ 'Error' balanced in BSUoS?

# Definition of overrun volume / tariff level

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- ◆ Volume
  - ◆ Measured at PS gate
  - ◆ Settlement by Company by Zone
  - ◆ Implicit sharing within zone on a company level
- ◆ Future proofing – door left open for nodal
- ◆ Devil is in the detail...
- ◆ Interaction with BSUoS / BSIS
  - ◆ Remove costs from BSUoS or charge separately
  - ◆ Incentivisation interaction with BSIS
    - ◆ Feeds through to BSUoS
- ◆ Interaction with long-term
  - ◆ Revenues / signals consistent and correct

# Overrun tariff

## *Option 1 – Manual Calculation*

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- ◆ Manual degut of constraint costs for period concerned
- ◆ Presented at TASG 07
- ◆ Only methodology can be audited (similar to PGs)
  - ◆ Process rather than data
  - ◆ Can publish data
  - ◆ Subjectivity, time / risk dependant
- ◆ Calculate prices in a black box, publish tariffs [d+2]
- ◆ Includes cost of headroom / replacement
- ◆ Cost recovery, average pricing
  - ◆ Discourage investment?

# Option 1 – Manual Calculation

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- ◆ Pros
  - ◆ Reasonably cost reflective
  - ◆ Process largely exists
- ◆ Cons
  - ◆ Subjective
  - ◆ Potentially open to dispute
    - ◆ Our actions on the day
    - ◆ Our post event assessment
  - ◆ Labour intensive
  - ◆ Not transparent
  - ◆ Post event publishing of prices
    - ◆ Could work on this:
      - ◆ IS solution / risk price escalates sharply
      - ◆ Accept grater inaccuracy

# Overrun tariff

## *Option 2 – Fully Automatic*

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- ◆ Develop software
- ◆ Use bids/offers taken in RT
  - ◆ Marginal (transparency)
  - ◆ Net pool / gross pool debate
  - ◆ Where is the hub / interaction with LT
- ◆ Price set per node or zone
- ◆ Initial prices published relatively near to RT
- ◆ External models tend to:
  - nodal for short term & zonal longer term ???
  - Combined with energy

## *Option 2 – Fully Automatic*

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- ◆ Pros

- ◆ Repeatable
- ◆ Auditable
- ◆ Objective (subject to constraints input)
- ◆ Nodal ? (future proof)

- ◆ Cons

- ◆ Objectivity subject to transparency of constraints and other inputs (line ratings etc.)
- ◆ Complex
- ◆ It's a software project (expensive, late, risky etc)
- ◆ Governance process and ongoing developments
  - ◆ We won't get it right first time
  - ◆ Similar to BSC users will want to propose changes
- ◆ Nodal zonal interaction

# Overrun tariff

## *Option 2a – ‘Off the shelve’ - Marginal price*

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- ◆ For each zone the tariff is:
  - ◆ the cost of the marginal bid
  - ◆ plus the replacement cost
    - ◆ marginal market buy price
- ◆ Simpler than cost recovery models
  - ◆ Avoids volume in price calculation – last /next price
- ◆ Leads to over recovery
  - ◆ Need to redistribute / balance revenue
  - ◆ Firm access holders have already been compensated
- ◆ Marginal pricing more efficient?
- ◆ What to do about negative zones?

# Overrun tariff

## *Option 3 – Approximation*

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- ◆ Use a fixed reference price, approximation e.g. TNUoS or BSUoS multiplier
- ◆ Excess / deficit passed through BSUoS
- ◆ Pros
  - ◆ Simple
  - ◆ Predictable
  - ◆ Better than licence breach
  - ◆ Provides certainty
- ◆ Cons
  - ◆ Not cost reflective (based on asset price)
  - ◆ Price determination, 5, 6 or 7 times?
  - ◆ Ongoing governance
  - ◆ Charging when there is no restriction
    - ◆ need a basic on/ off switch?
    - ◆ Other improvements move it to option 1