Operational and SO Cost Update







Jo Faulkner – Balancing Services Manager Electricity Operational Forum – October 2012

Changes to Scheme Methodology for 2011-13





NGET Suggested Changes

- Changes to optimiser Settings
- Running of CHP plant
- Inclusion of rules to run plant needed for voltage control
- Correction of an error in the boundary transfer
- Use of Ex-Post MEL for generator availability
- Use of ex-post interconnector flows
- Changes to the modeling of a particular generator
- Removal of "erroneous data" e.g. Severn Power +99999 bid prices in April 2012
- Treatment of commissioning generation

Link:



Ofgem Approved Changes

- Changes to optimiser Settings
- Running of CHP plant
- Inclusion of rules to run plant needed for voltage control
- Correction of an error in the boundary transfer \(\rightarrow \)
- Use of Ex-Post MEL for generator availability
- Use of ex-post interconnector flows From Sept 2012
- Changes to the modeling of a particular generator



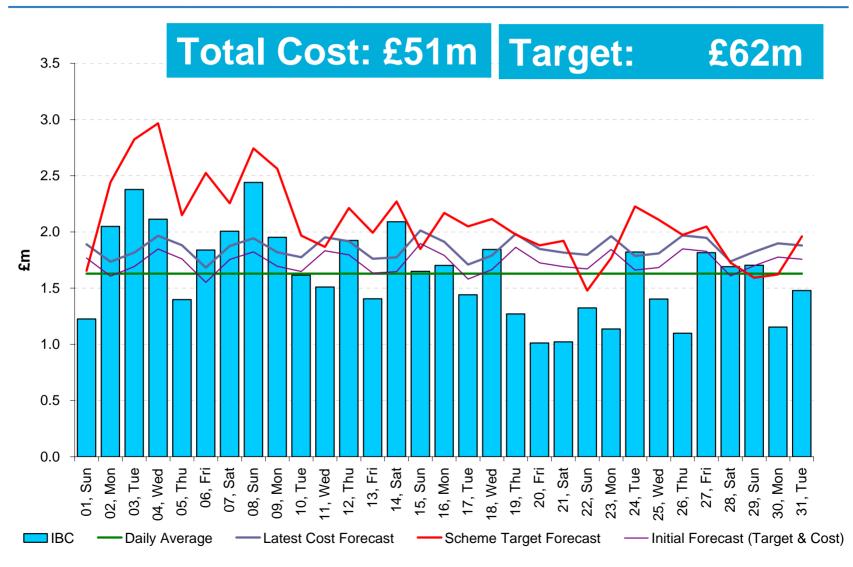
- Removal of "erroneous data" e.g. Severn Power +99999 bid prices in April 2012
- Treatment of commissioning generation

Link:

July & August Outturns

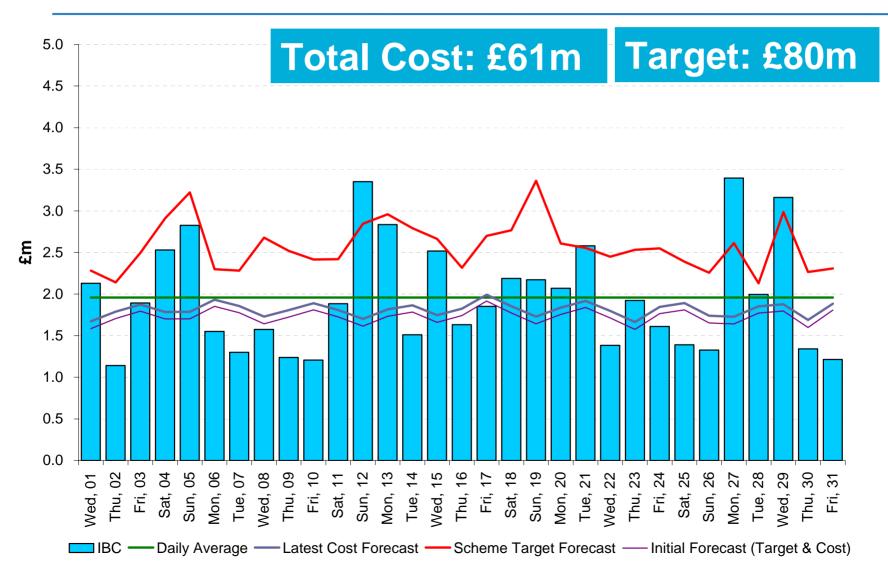


Total Incentivised Balancing Cost (IBC) for July 2012

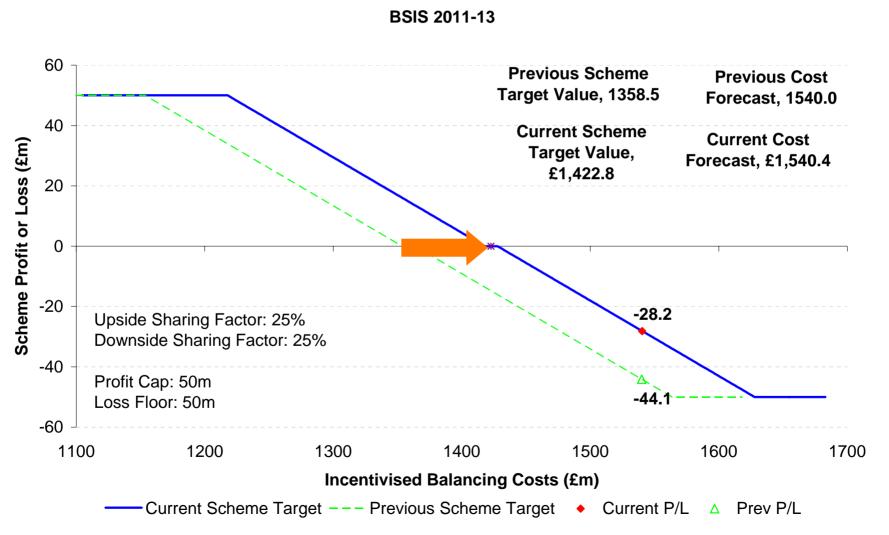


Total Incentivised Balancing Cost (IBC) for August 2012

nationalgrid



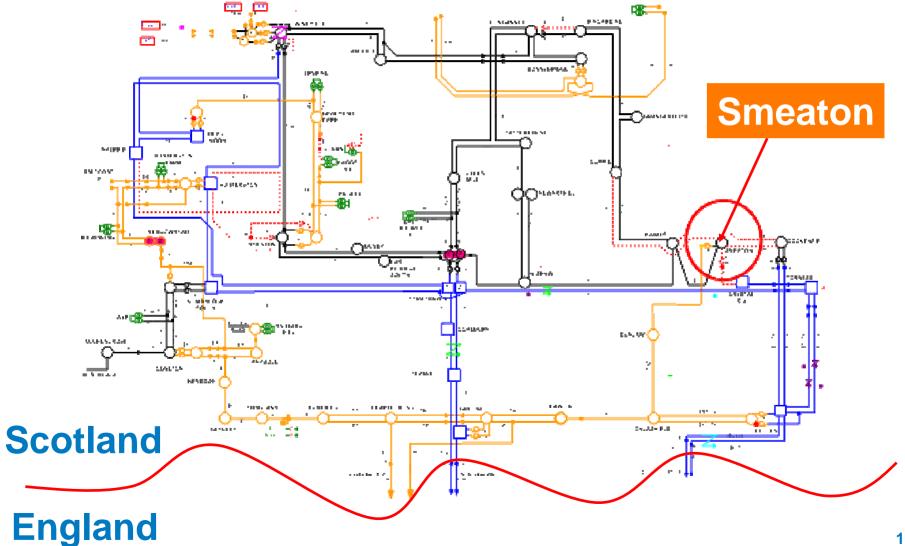
Resulting Change in Target



Smeaton Outage



Smeaton Substation



FMJL replacement

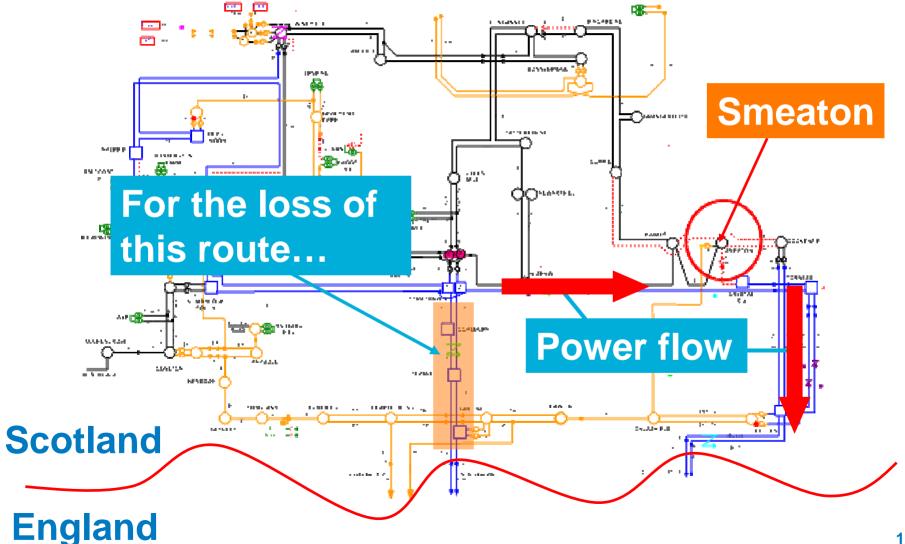
"FMJL" type current transformers need to be removed from system

History of disruptive failure

■ Due to hazard, exclusion zones are in place

At Smeaton these exclusion zones would prevent any entry to site unless substation shutdown

Smeaton Substation Shutdown



Securing the outage

 Loss of the route through Smeaton, combined with a down rating of the Strathaven – Torness route, is difficult to secure

Need to secure for both export and import conditions

Small margin between too much and too little generation

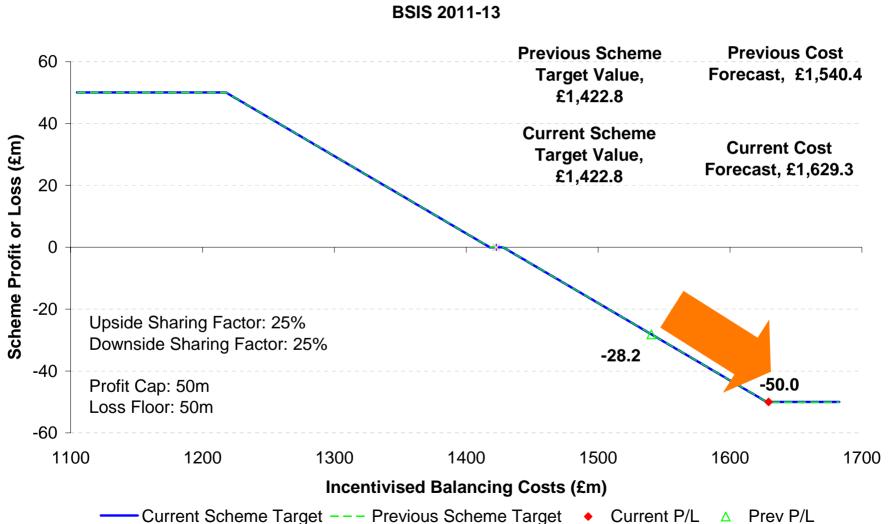
Mitigations

NGET and SP have worked closely to mitigate the impact of the Smeaton outage

Temporary circuit to supply Edinburgh

Changes to work plan to allow return of through route in shortest possible time

Forecast Impact on Scheme – Smeaton Outage



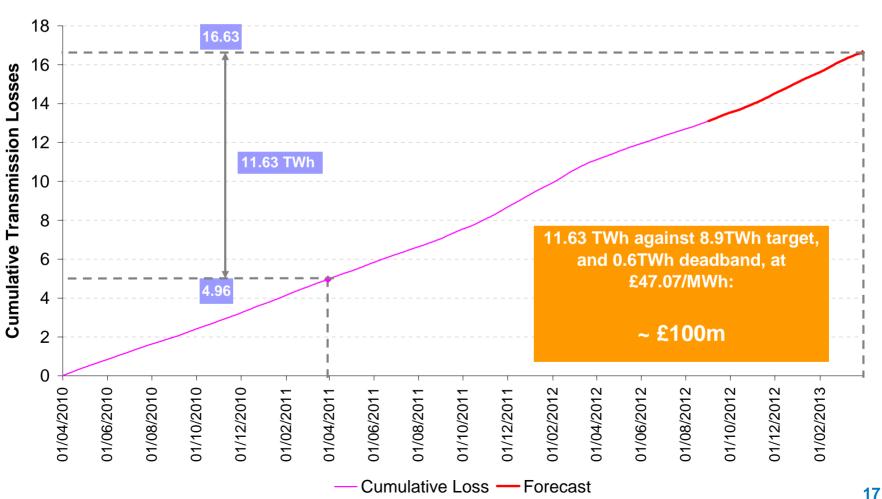
Transmission Losses





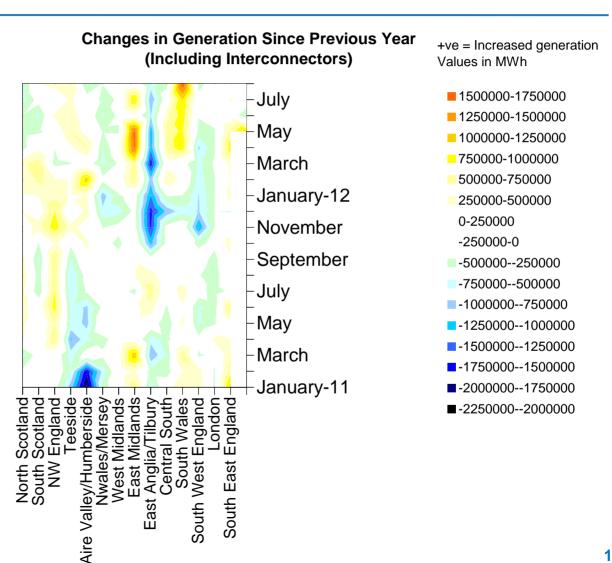
Forecast Transmission Losses

Projected Transmission Losses

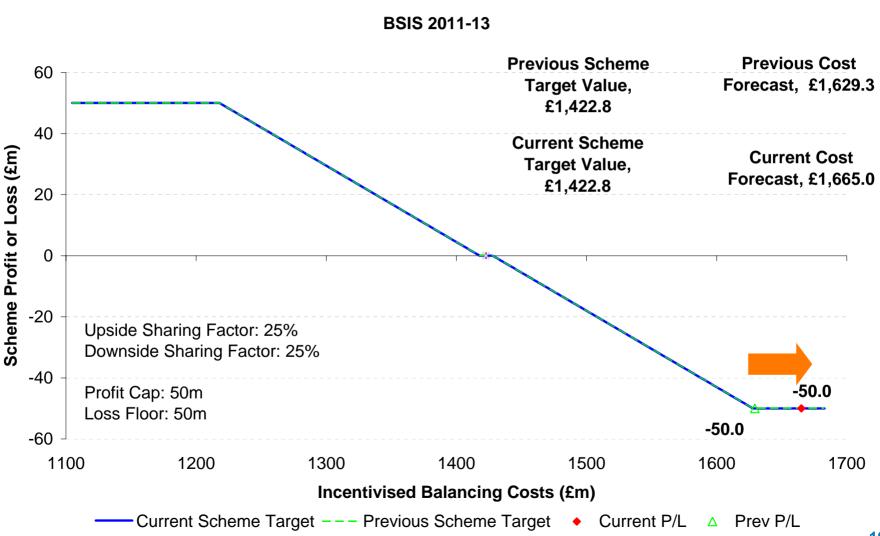


Year on Year Generation Changes

Area



Forecast Impact on Scheme – Transmission Losses



BSUoS

- 2011/12: £1.47/MWh (previous forecast £1.48/MWh
- 2012/13: £1.34/MWh (previous forecast £1.20/MWh)

