How current TLAF Methodology is not fit for purpose

Presentation to RAs Workshop on TLAFs 26 July 2010



Presentation

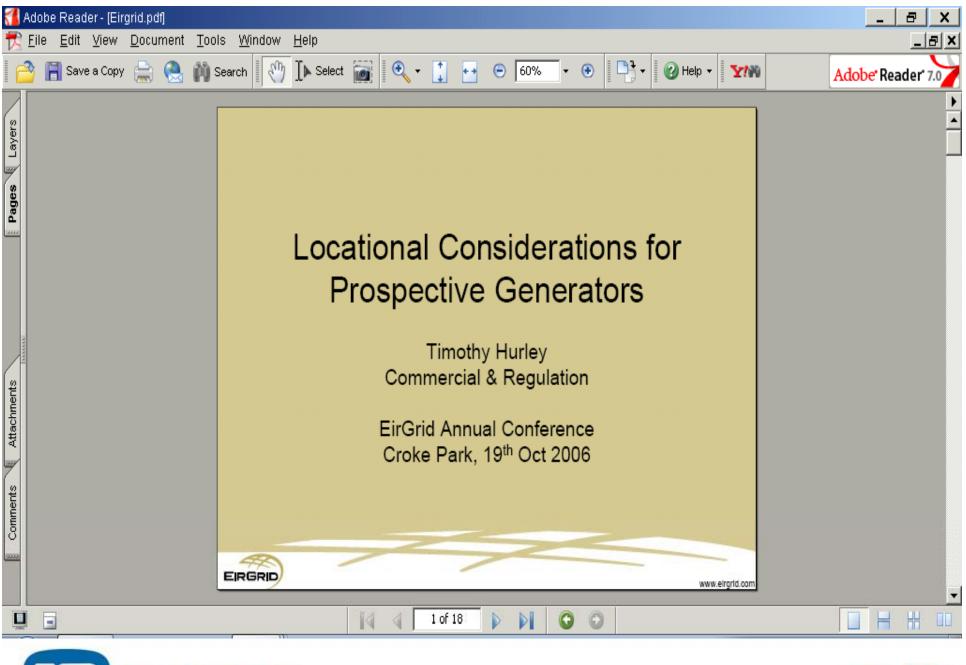
- Background
 - Locational Signals
- Impact on Cork Generators
- Report on Actual System Losses
 - Study methodology
 - Results & Findings
- Overview of all-island attributed losses
- Conclusions



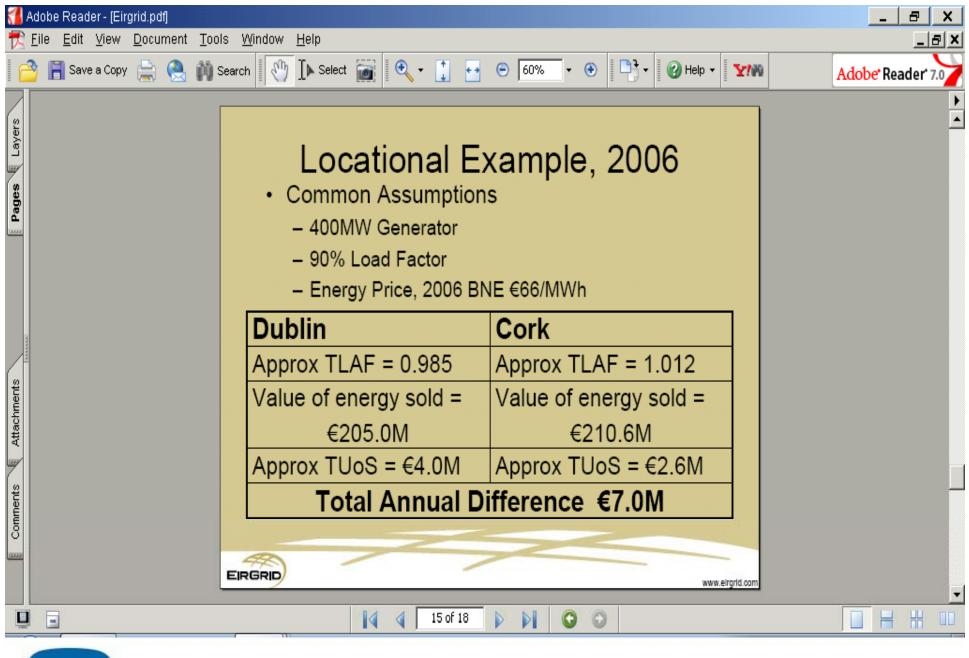
Background

- Plant located in Aghada in response to clear locational signals
 - EirGrid signalled that additional generation needed in Cork
 - Having fully committed, the locational signals changed dramatically





EZE





Magnitude of Volatility in Cork

2007 Winter Day TLAF

1.044

2010 Winter Day TLAF

0.917

TLAF when committed TLAF when connected



Report on Actual System Losses

- ESB believes indicated impact is not warranted
- Report commissioned with the objective:

To establish true impact of new Cork Generation on system losses in Ireland

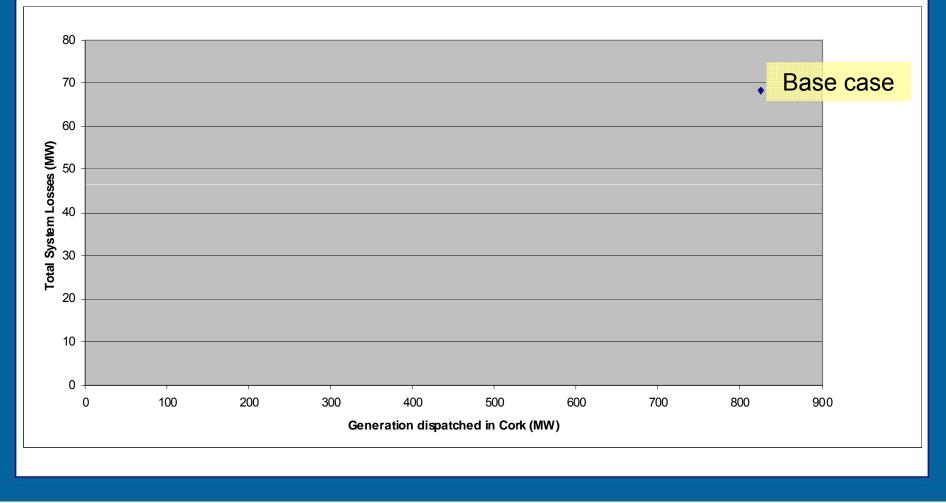
 Report demonstrates unequivocally that impact is not credible.



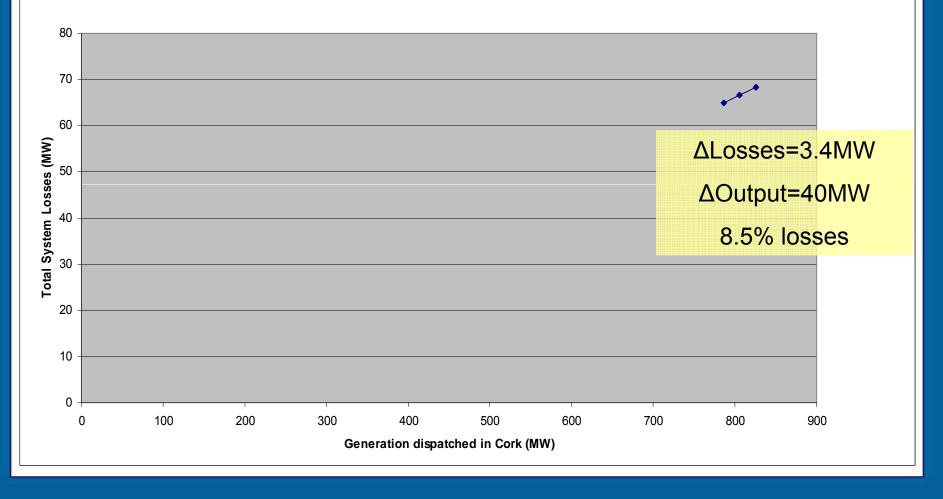
Study Methodology

- Data and assumptions in line with standard TSO practice
- PSS/e loadflow studies
- AD2/BGE output reduced in 20MW steps
- Alternative Generation brought on
- System losses established

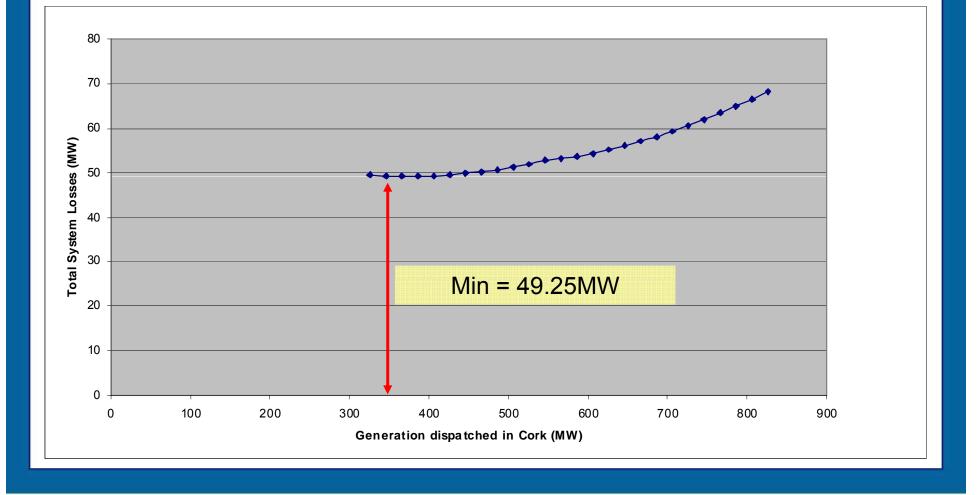




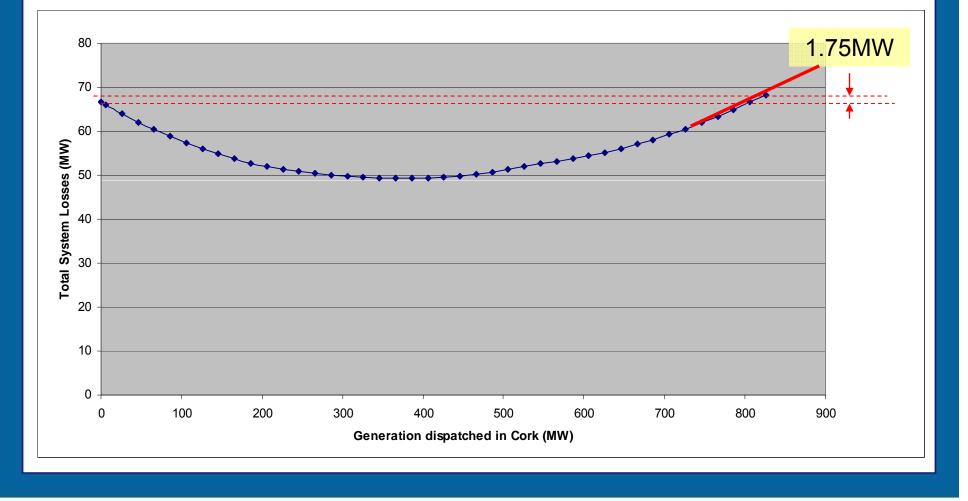












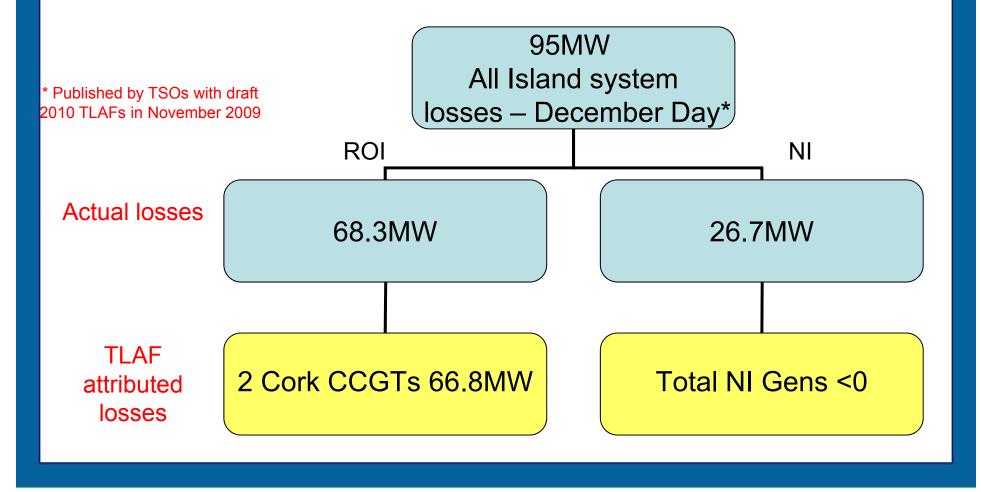


Report Findings

- Observations
 - AD2/BGE generation has minimal impact on actual system losses.
 - The first 385MW of generation from AD2/BGE actually reduce system losses.
 - The first 800MW of generation from AD2/BGE are loss free in relative terms.
 - Irrespective of output from Cork generators, minimum system losses cannot be reduced below ~50MW.
- Conclusion
 - Methodology is not reflective of actual impact on system.



Current TLAF methodology is broken!





Overall Conclusions

- TLAF methodology is not fit for purpose
 - Works at the margins
 - Makes absolutely no sense to apply same TLAF to all of the output
- Unjustifiable distortion of market
 - Certain plants disproportionately penalised
 - Cork CCGT plants covering all of transmission system losses in Rol
 - Significant monetary impact for Aghada CCGT
 - Certain plants disproportionately rewarded
 - Significant change to 2010 TLAFs granted benefits without justification
- Broken TLAF methodology resulting in uneconomic dispatch of plant, unnecessary CO2 emissions.

Not delivering value for Customer

