

Annex 5c - Why GB ECM-05 was raised, what constitutes as a ‘manifest error’ and materiality of threshold

Background

- As part of BETTA, the DC loadflow investment cost related pricing (ICRP) based transport model used for calculated locational TNUoS charges in E&W was extended to incorporate Scottish network data.
- Following the 05/06 TNUoS tariffs, it was highlighted that erroneous network data had been used for two circuits between Dalmally and Cruachan (*SPT’s area*).
 - It wrongly assumed 8.1km of 275kV cable and 0.4km of 275kV OHL per circuit. Later being revised to 8.1km of 275kV OHL per circuit and 0.4km of cable per circuit.
- The error underestimated of the length of circuit comprising overhead line (OHL) and the over estimation of the length of the circuit comprising cable.
- As cable is more expensive than OHL, the impact of the error was to apply significantly higher marginal km figure.
- As a result, Cruachan power station was allocated to a TNUoS charging zone of its own and it’s £/kW TNUoS generation tariff overstated.
- Existing methodology at the time did not have a mechanism to reconcile such an error.
- NGET submitted the conclusions report to the Authority on 22/09/06 & recommended that the mod proposal be approved.
- Ofgem decided not to veto the proposed GB ECM-05 and therefore implemented 20/10/06.

What constitutes an ‘manifest error’?

- CUSC Section 14.17.33
 - Manifest errors defined as one of the following:
 - a) An error in the transfer of relevant data between the transmission licensees or distribution network operators
 - b) An error in the population of the transport model with relevant data
 - c) An error in the function of the transport model
 - d) An error in the population of the inputs, or function of the tariff model.
- CUSC Section 14.17.34
 - A manifest error shall be considered material in the event that such an error or, the net effect of multiple errors, has an impact of the lesser of either:
 - a) an error in a User’s TNUoS tariff of at least +/-£0.50/kW; or
 - b) an error in a User’s TNUoS tariff which results in an error in the annual TNUoS charge of a User in excess of +/-£250,000.

Materiality of threshold

- NG originally put forward £1/kW, in line with existing criteria used to determine generation charging zones.
- NG later felt defining materiality might be that of determining an acceptable tolerance in the measurement of circuit data which is used in the DCLF transport model.
 - By using 1km as an acceptable tolerance, the largest discrepancy which could occur in the calculation of a user tariffs would be that which includes an error in the measurement of a 132kV cable, in a Scottish Region. (*For 06/07, 132kV cables in these regions have the highest EC of 27.85.*)
 - An error in the measurement of this type of circuit of 1km, would result in a discrepancy in the locational element of the annual TNUoS charge of a user of approx. £0.5/kW.

- NG recognised limitations of using a single criteria for determining materiality, particularly when considering larger generators.
 - For example a 2GW powerstation subject to an increase in tariff of 0.49/kW, would be liable for an additional £980k in charges with no reconciliation mechanism.
- NG proposed to use additional criterion of a de minimus value of +/- £250k which represents a discrepancy of £0.5/kW for a typical power station of 500MW.
- Ofgem's picked up respondents' comments w.r.t determining materiality of an error. One party argued for smaller absolute threshold of +/-£0.25/kW and a de minimum value of +/- £100k as being more appropriate. As £0.5/kW level would represent an error of £1m for a 2GW generator.
 - Ofgem recognised that this was based on a misunderstanding and that any error above 250k would be eligible for reconciliation.
- NGET consulted on the materiality issue and in Ofgem's view presented a 'robust justification' for the criteria based on an acceptable tolerance for a discrepancy in the measurement of current circuit data.
 - Two reasons that were cited:
 - a) No classes of users were discriminated against and
 - b) The proposal is proportionate to the nature of errors likely to occur.