

Why do NRAPM forecasting?

The purpose of the NRAPM forecasting report is to indicate to the market a risk of NRAPM situation and therefore risk of Emergency Instructions.

The insufficient NRAPM warning (Negative Reserve Active Power Margin) is a request to encourage more flexible parameters from generators, and inform participants of a risk of Emergency Instructions. A system NRAPM may be issued if there is insufficient flexibility available to ensure that generation matches demand during low demand periods. A localised NRAPM occurs where there is a danger that the combination of demand and inflexible generation within a constraint group can exceed the constraint limit of a portion of the network. In both cases there is a risk that National Grid may need to issue Emergency Instructions to inflexible and non – BM participating plant.

Localised NRAPMs are more common in the north of Scotland due to the large volume of wind and water generation and relatively low demand. A common scenario is that hydro generators will withdraw or reduce their flexibility due to water management issues following high rainfall periods in the region.

Emergency Instruction - Grid Code Definition

An instruction issued by NGET in emergency circumstances, pursuant to BC2.9, to the Control Point of a User. In the case of such instructions applicable to a BM Unit, it may require an action or response which is outside the Dynamic Parameters, QPN or Other Relevant Data, and may include an instruction to trip a Genset.