

27<sup>th</sup> May 2008

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**Phil Sheppard**

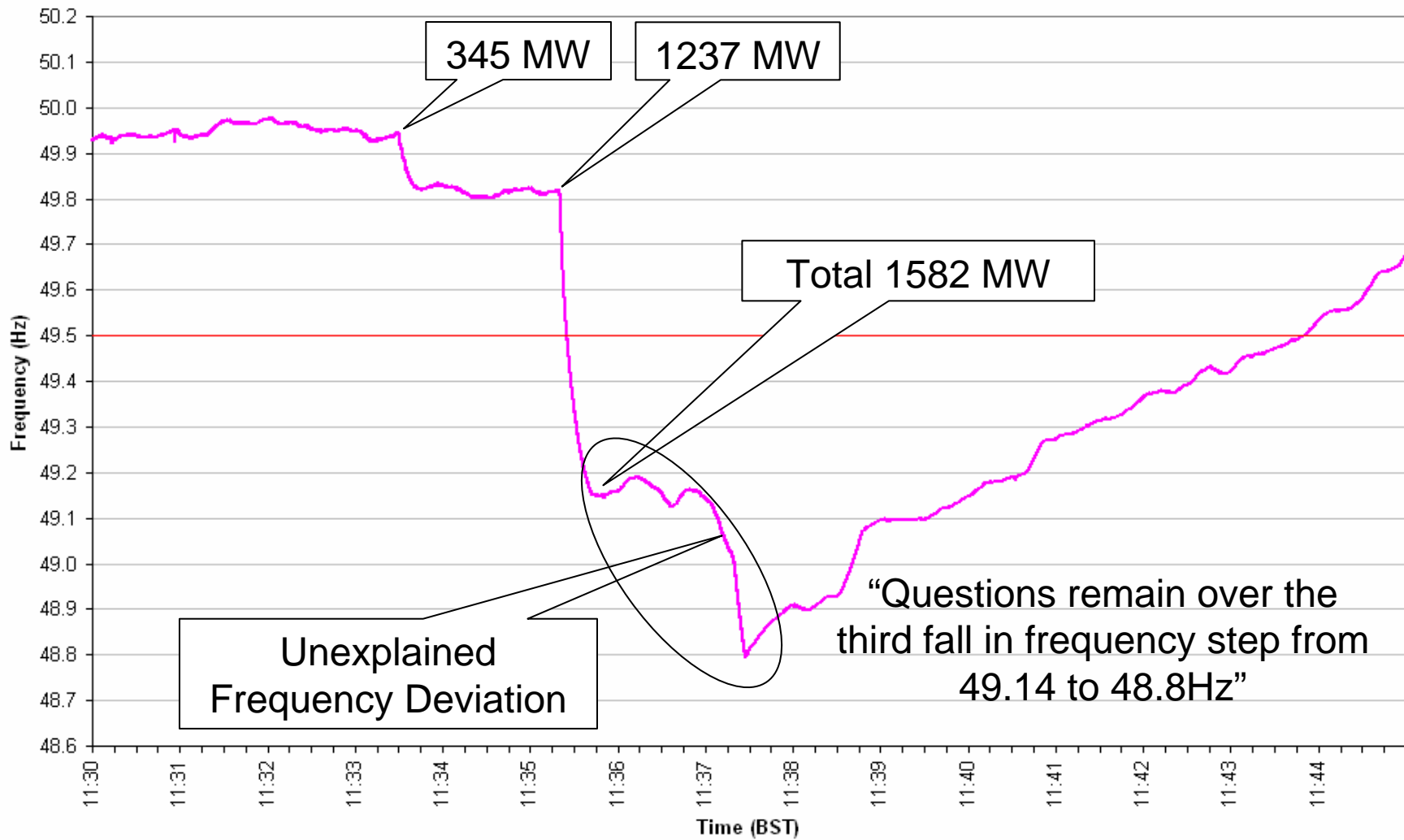
**nationalgrid**

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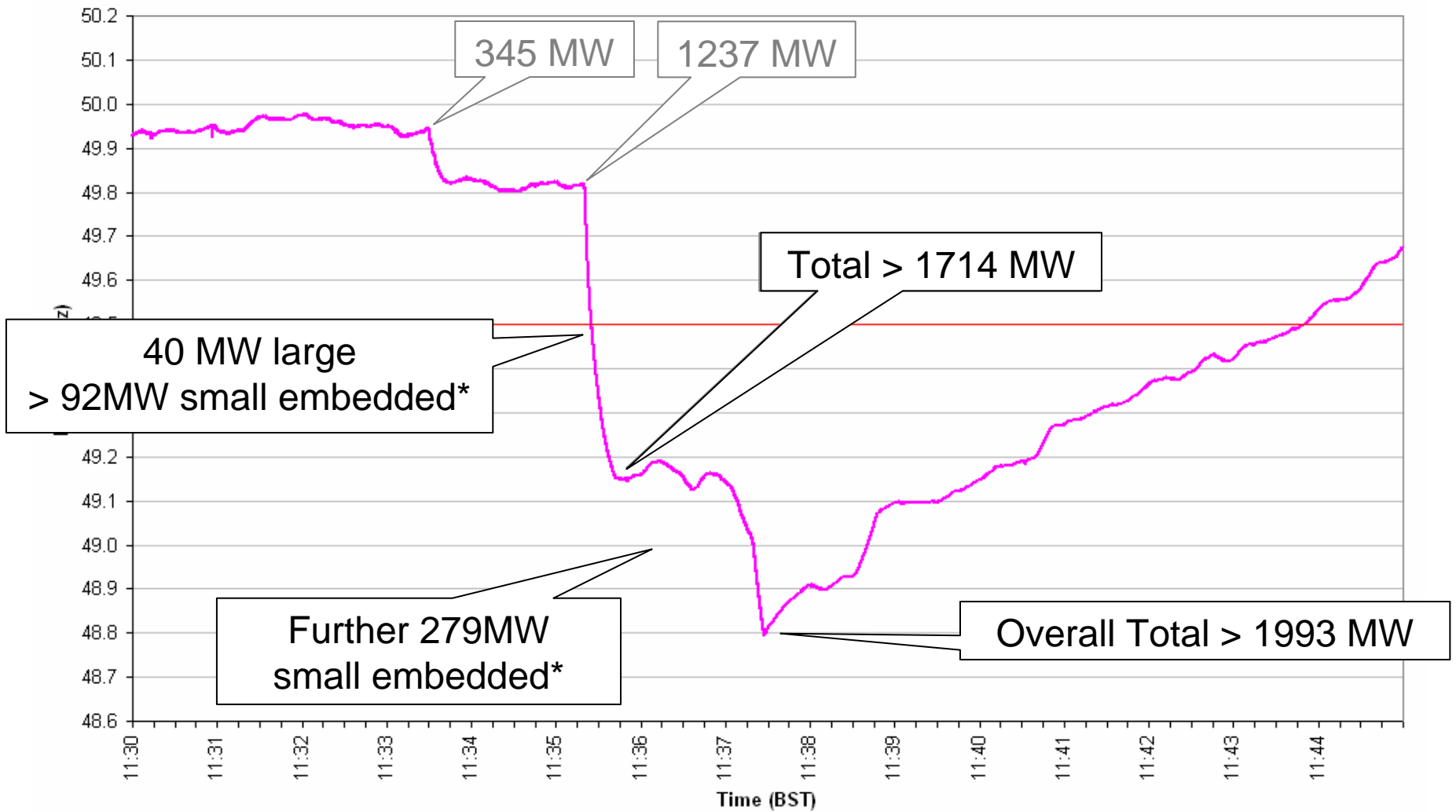
27<sup>th</sup> May 2008

- ◆ **Energy Emergency Executive Committee Task Group**
- ◆ **Public Version of the E3C Report**
- ◆ **Key findings**
- ◆ **Ongoing work**

# Initial Report Position

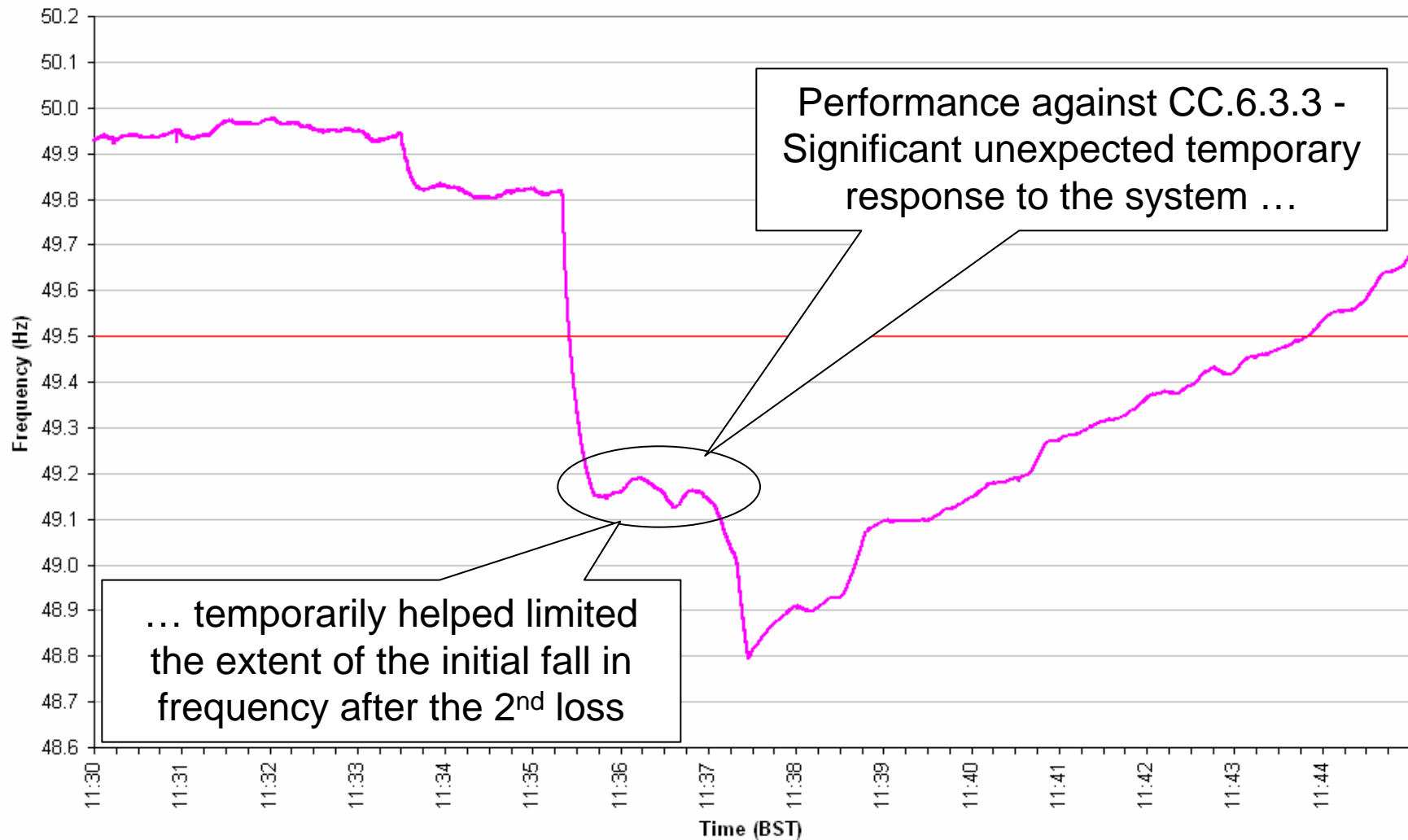


# E3C Task Group – Investigations provide additional data

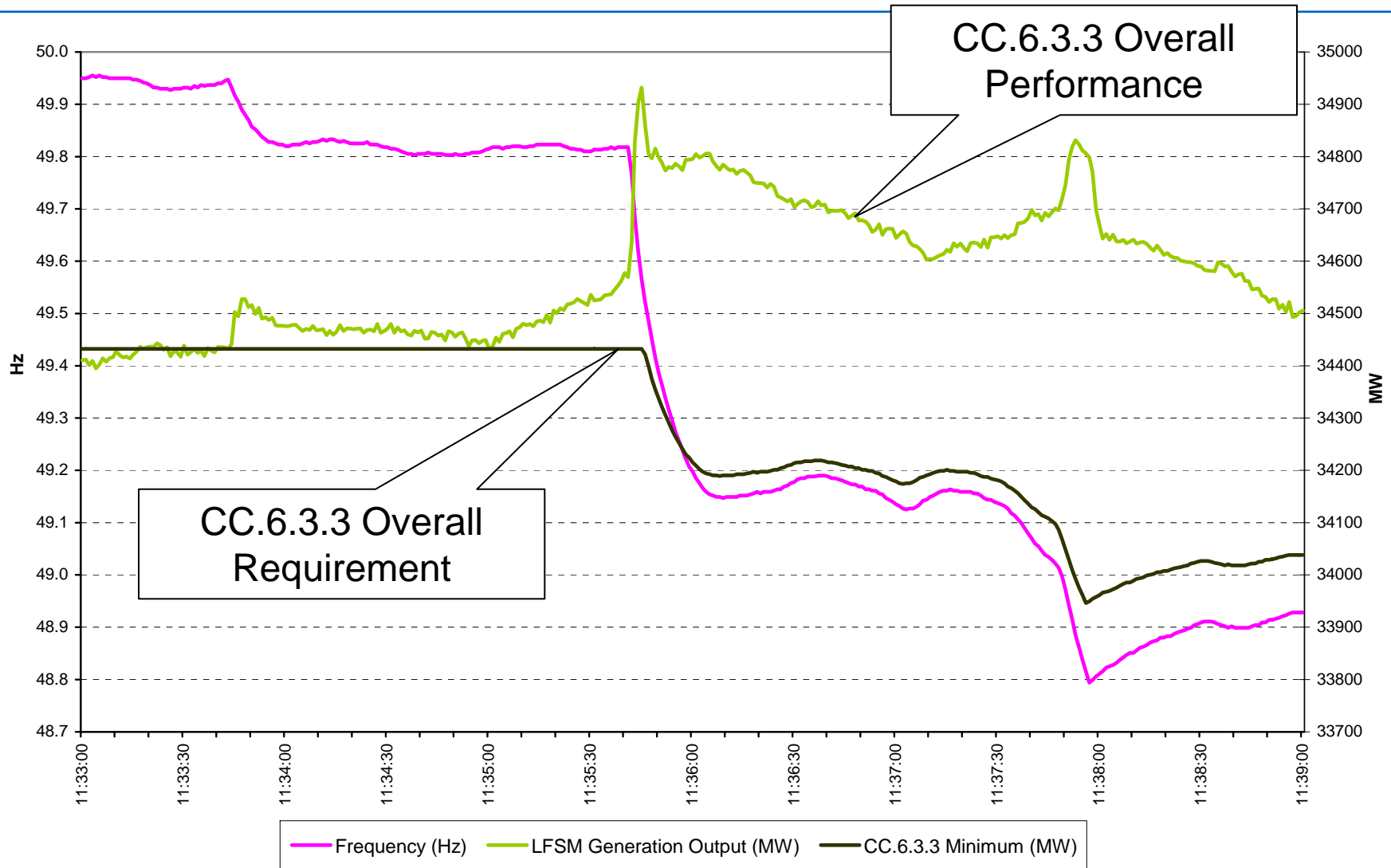


\* The data available to the DNOs from embedded generators is considered incomplete and variable in quality – See Section 4.3 of the Report

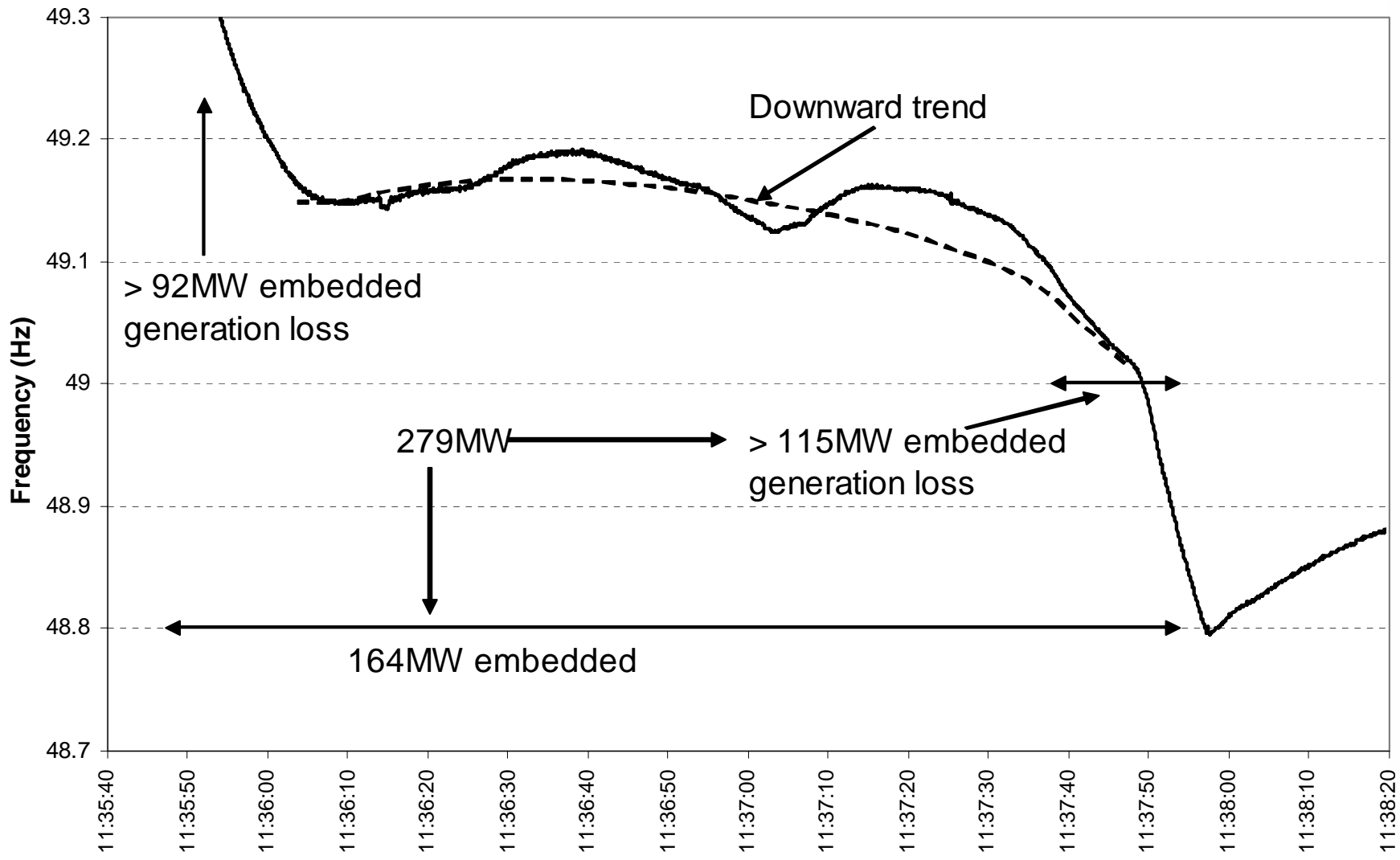
# Limited Frequency Sensitive Mode – additional support



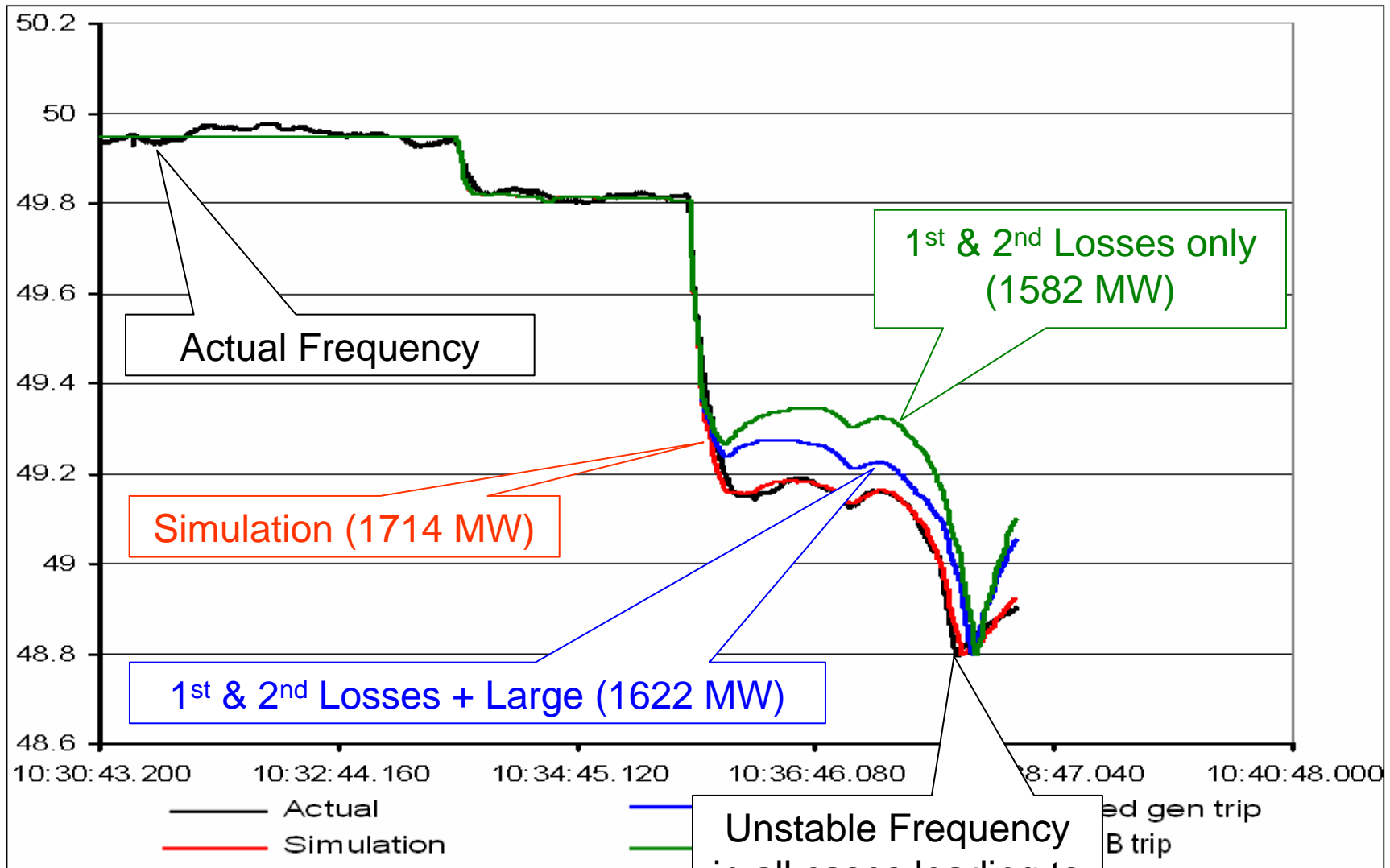
# Limited Frequency Sensitive Mode – additional support



# Additional data allowed the event to be modelled

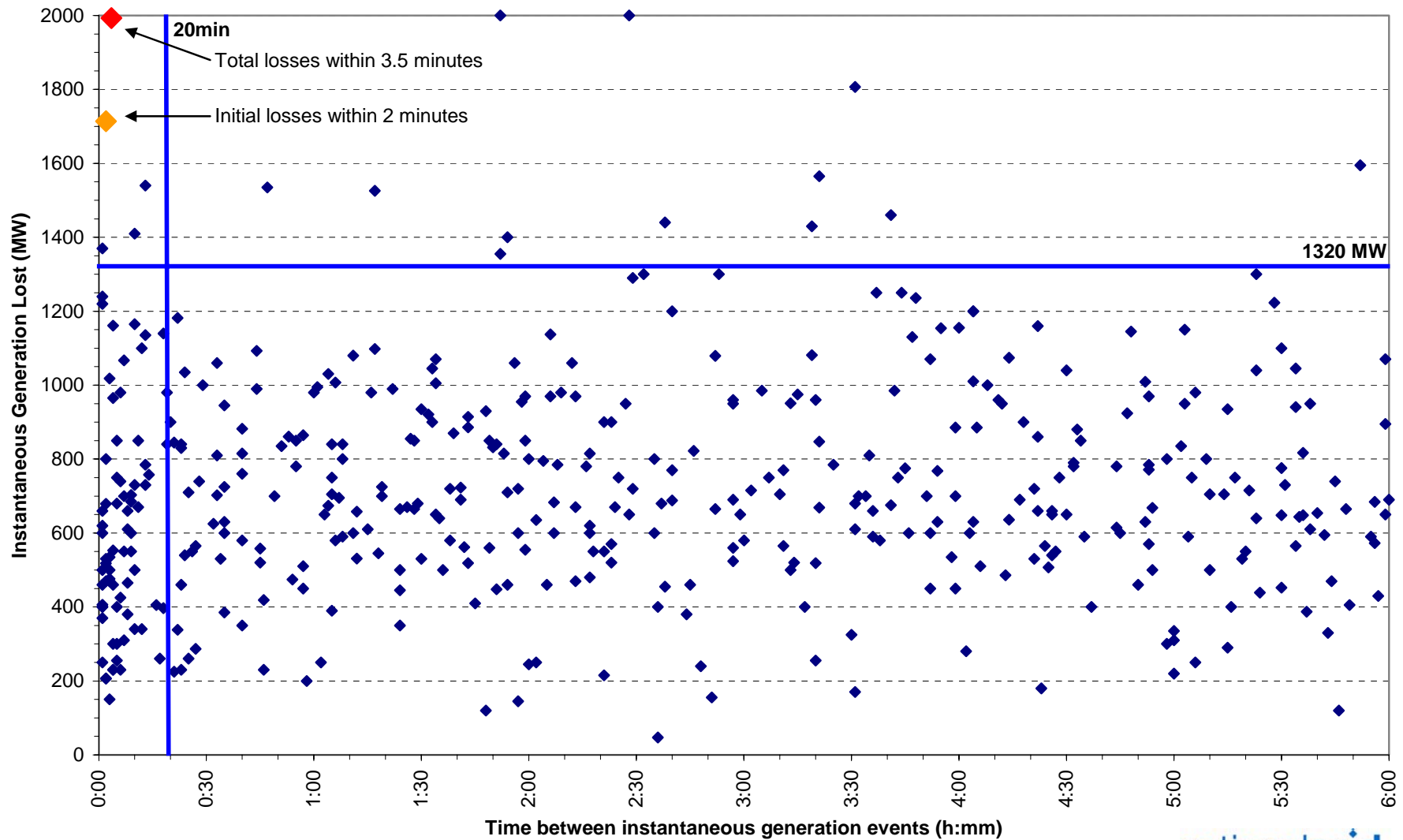


# Additional data allowed the event to be modelled

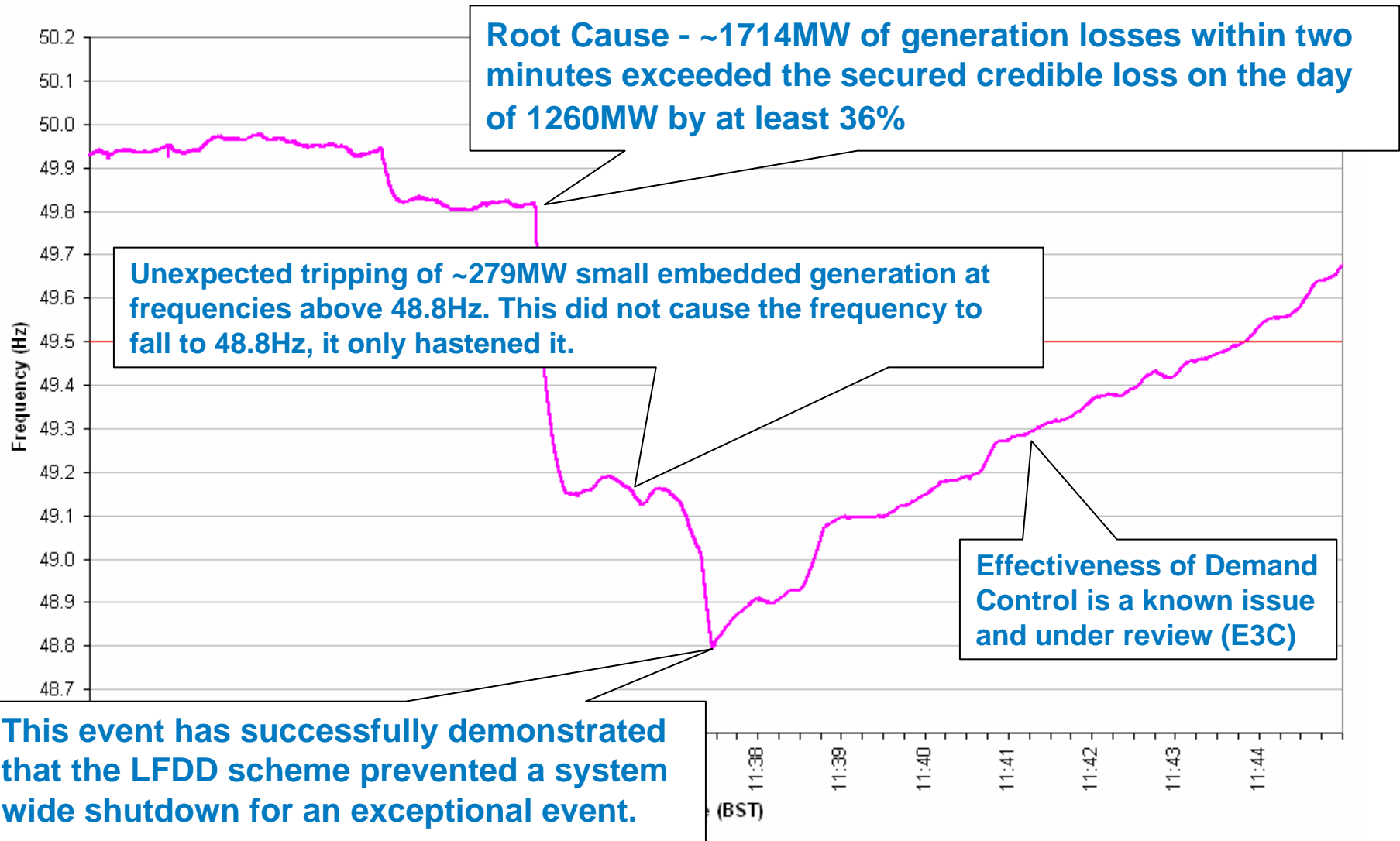


Unstable Frequency in all cases leading to LFDD Operation

# Exceptional and Rare Loss of Generation



# Conclusions – The GB Power System worked as expected and was protected for this exceptional event as intended



# GCRP Recommendations – Reporting to E3C

- 1. The lack of a clear and explicit frequency range requirement on small embedded generation plant in the Distribution Code should be addressed by the Grid Code Review Panel. The objective is to review and align the two codes on such a requirement as far as reasonably practicable. GCRP Chair by December 2009**
- 2. Where reasonably practicable the frequency range settings on existing small embedded generation plant should be modified to improve their resilience to frequency excursions. GCRP Chair by June 2009**
- 3. Under the GCRP auspices, National Grid and the DNOs review the arrangements under Grid Code OC6.6 to ensure effectiveness of all low frequency demand disconnection scheme stages and share best practice identified from this event. This is to include the obligations on restoration of demand. GCRP Chair by June 2009**
- 4. With the continued assistance of the Association of Electricity Producers establish as far as possible the timing and cause of any embedded generation losses on the 27th May to further support action 1 and 2. GCRP Chair by June 2009**
- 5. Provide the Energy Emergency Executive Committee appropriate updates on the status and progress of actions 1 to 4. GCRP Chair**