

Breakout Session on PPM priority issues

WS on Frequency Stability
Requirements/Parameters

Brussels, 09.03.2017

Specific challenges on frequency stability requirements

- Inertia issues
 - Application of synthetic inertia
 - Replacing the dynamic performance of synchronous generators
 - Maturity of synthetic inertia
- RoCoF issues
 - Measurement methodology (frequency and rate-of-change of frequency)
 - Management of angle changes
- Definition of reference incidents determining the requested performance and corresponding technical capabilities
 - Technical criteria
 - Consideration at country level or above?
- LFSM:
 - Active power response – interrelation between amplitude of response and response time
 - Response delay
- Controllability of large number of generating units
- Cross-country harmonisation of parameters (synchronous area level vs. country level)
- Parameters for HVDC systems interconnecting two synchronous areas

Technical capabilities vs. Operational performance

- Common interpretation of definitions / terminology
- Distinction between uses cases for design and operation
- Robustness to frequency sensitivity vs. loss-of-mains / intentional islanding