Non exhaustive list of Fast Fault Current Injection options for WG investigation

The following is provided for information only without prejudice to WG evaluation and without comparative assessment as a range of technology approaches or combinational approaches which have the potential to meet an option1-based FFCI requirement.

1. Additional synchronous compensation complementing existing convertor control, providing the FFCI support.

2. Additional synchronous compensation informing the FFCI support.

3. Use of co-located existing synchronous generation in a de-clutched operation to provide the FFCI support.

4. Use of complementary appropriately defined storage and or static compensation devices to deliver the FFCI support.

5. New forms of convertor control based around the principles of providing the effect of a voltage source behind an impedance across transient disturbances with sufficient FFCI capability

6. Additional capabilities to achieve the above modified convertor control capabilities at de-loaded active power levels.

7. Alternative methodologies of DC power conversion.

8. Assessment of combinations of different solutions through the use of cost benefit analysis.