

Emergency and Restoration Network Code (E&R)

Fact Sheet

Background

The Network Code on Emergency and Restoration (E&R) aims to ensure security and continuity of electricity supply across Europe by creating harmonised standards and procedures to be applied in the Emergency, Blackout and Restoration states.

This involves the development of system defence, system restoration and re-synchronisation plans in advance, specifying measures related to information exchange, operational procedures and post-event analysis.

E&R sits alongside the System Operation Guideline (SOGL) which sets out harmonised rules on system operation. SOGL identifies different critical system states (normal state, alert state, emergency state, blackout state and restoration). The ER code in turn requires the development of a common set of minimum requirements and principles for the procedures and actions to be carried out specifically when in the emergency, blackout and restoration states.

System Defence Plan will specify the instructions to be issued by the TSO and the measures for which real-time coordination is necessary in the event of deteriorating system health.

Restoration Plan will consist of the technical and organisational measures necessary for the restoration of the system back to normal operation subsequent to a system blackout.

Market Interactions This section of the code requires each TSO to develop a proposal for rules concerning the suspension and restoration of market activities under certain conditions.

Implementation Timescales

Date	Action
Dec 2017	E&R entered into force (EIF) on 18 December 2017
Dec 2018 (12 months after EIF)	System Defence Plan Developed (draft goes out for consultation September 2018) Restoration Plan Developed (draft goes out for consultation September 2018) Market Suspension Rules (draft goes out for consultation in September 2018)
Dec 2019 (24 months after EIF)	System Defence Plan Implemented Restoration Plan Implemented
Dec 2022 (5 years after EIF)	Communications, Tools and Facilities Define Compliance Testing Plan

Am I affected?

E&R applies to TSOs, DSOs, generators, defence service providers, restoration service providers, balance responsible parties, balancing service providers and nominated electricity market operators ('NEMO').

When?

E&R entered into force on **18 December 2017**. The obligations in the code will be delivered over the following years (ranging from one to five years following entry into force).

How?

National Grid has raised Grid Code modification [GC0108](#) to implement E&R. In addition, E&R may require modifications to the Distribution Code and BSC. This is dependent on the development of the system defence/restoration plans and the rules for market suspension. All modifications to GB codes will be consulted on.