Network Code Emergency and Restoration

Sonya Twohig, ENTSO-E

EnC Security of Supply Meeting, Vienna, 5 July 208
Emergency and Network Code Timeline

- **Q2'18**
  - Project team formed from network code drafting team

- **Q3'18**
  - TSO workshop on Defence and Restoration plans

- **Q4'18**
  - Engage with RSC’s on coordination of TSO measures

- **Q1'19**
  - Prepare market rules for harmonisation assessment with market colleagues

- **Q2'19**
  - Proposals submitted for consultation

- **Q3'19**
  - TSO Plans submitted to NRA’s Inter TSO coordination submitted to RSC’s Market rules proposed

- **Q3'19**
  - RSC’s assess level of consistency in INTER TSO coordination
Each TSO to design a System Defence Plan and System Restoration Plan by December 2018, and to:

1. Include Terms and Conditions to act as defence service providers and restoration service providers.
2. List of SGU’s and High Priority SGU’s.
3. Rules for suspension and restoration of market activities.
4. Rules for Imbalance settlement

Public Consultation is required for items 1, 3 and 4.
Each TSO has mature defence and restoration plans, the NC ER Expert Teams’ focus is on providing a common understanding and harmonised approach to TSO’s for:

- Rules for suspension and restoration of market activities.
- Rules for Imbalance settlement

A draft paper has been produced and the guidance for document TSO’s will be concluded in September.

Exact dates vary however the project team are working on the basis that proposals will be submitted for 1 month consultation in October.
Regional Coordination Requirement

Each TSO shall ensure the consistency...in the plans of TSO’s within it’s synchronous area and in the plans of neighbouring TSO’s belonging to another synchronous area ...the following measures.

a) Inter TSO assistance and coordination in the emergency state  
b) Frequency management procedures  
c) Assistance for active power procedure  
d) Top-down re-energization strategy.

Submit measures to the relevant RSC’s by 18th December 2018
Regional Coordination Progress

The NC ER Expert Team is on track to deliver.

- A final draft of a template document covering the measures required to submit to RSC’s by end of July 18.
- A final version in coordination with RSC’s by September 18.
- Complete the template for each TSO by December 18.
Q&A
ENTSO-E Approach to RPP Implementation

Sonya Twohig, ENTSO-E

EnC Security of Supply Meeting – 5 July 2018
Risk Preparedness Regulation - Provisional Timelines (*)

0. ENTSO-E task force proposal on RPR

1. Methodology to identify regional electricity crisis scenarios

2. Short term adequacy methodology proposal

3. Regional electricity crisis identification and submission to ECG

4. Publication of Risk Preparedness Plans

(*) Based on Council’s version from 20 December 2017
Electricity Risk Preparedness draft Regulation

ENTSO-E to propose methodology for identifying relevant crisis scenarios in a regional context, on the basis of the following risks:

- Rare and extreme natural hazards;
- Accidental hazards going beyond the N-1 security criterion;
- Consequential hazards including fuel shortages;
- Malicious attacks

ENTSO-E to propose methodology for assessing short-term adequacy (seasonal as well as week ahead) which shall cover:

- Uncertainty of inputs such as probability of transmission or generation unplanned outage, severe weather conditions and variability of demand;
- Probability of crisis situation;
- Probability of simultaneous crisis situation.
ENTS-O E Consultation Approach – Pan European Crisis Methodology

1. Ensure a common methodology for risk assessments
   - Propose approach to Consultation and Engagement
   - Gathering existing experience from countries

2. Establishment of risk-preparedness plans
   - Develop Pan-European methodologies based on existing experiences (Regional, National, etc)

3. Managing electricity crisis situations, test exercises
   - Check alignment with TSO emergency and restoration preparedness plans

4. Evaluation & Monitoring, Review of Methodology and Tools
   - Building consistent national/ regional/ Pan-European methodologies together with stakeholders

- Expected EIF Q1 2019
- Submission to ACER Q3 2019
Risk Preparedness - Steps

Project Initiation
March-May 2018
- PID
- Project Plan
- Governance
- ENTSO-E Organisational Structure for RPR Programme
- Communication & Engagement Plan

Data Gathering
June-July 2018
- Gathering process of international standards, existing hypotheses, methodologies and procedures of TSOs, RSCs, NRAs & MS
- Library & documentation

Draft Methodology
July-Dec 2018
- Consistent approach for definitions, wording & language
- Methodology skeleton
- Drafting process and revision
**Overview – Data Gathering**

- **Data Gathering Process**
  - EC received input from 2015 survey
  - Survey tool prepared to follow up on TSO & RSC data
  - Previous information of surveys, task forces, committees, International standards, has already been captured
  - by 20.07.18

- **Data Library**
  - Develop a consistent approach of existing practices
  - Develop Documentation of existing Procedures & Regulations
  - Consolidation of existing documentation
  - by end July 18
ENTSO-E Consultation Approach

Data Gathered
- ENTSO-E has received the copy of the review study carried out in 2015 into existing national rules for risk preparedness.
- The report provides a high level view on where electricity supply risk assessments exist and who is responsible but not methodology applied.

Information Requested
- ENTSO-E is currently requesting via our website/consultation hub for TSO’s to provide existing methodologies for identifying electricity crisis scenarios.
- We would like to expand the survey to include Electricity Coordination Group (ECG) Representatives to ensure support with the TSO’s and ability to contribute if applicable.

Consultation Hub
- The consultation hub is confidential and as a private consultation is not visible to external parties.
- The hub provides a platform for documents to be attached.
• ENTSO-E will produce a short newsletter by email on a bimonthly basis informing on the developments for the Risk Preparedness Methodology.

• For more information about the Risk Preparedness Programme please contact Bruce Riddington, Risk Preparedness Project Manager at ENTSO-E
• Contact details will be provided on the consultation hub and via email.