CC - RfG implementation in Romania
TOPICS

1. Current situation;
2. RfG implementation:
   – Responsibilities;
   – Concept;
   – Process;
   – Schedule;
3. Transparency;
4. Particularities on HVDC & DCC implementation.
1. Current situation - Existing Codes

Transmission Grid Code (TSO)

One structure including:
- Requirements for generation connection
- Monitoring, etc.

Distribution Code (DSO)

One structure including:
- Link to Detailed requirements for connection etc.

RES integration (pilot)

Specific requirements
- NT 51/2009 requirements for wind power park connection
- NT 30/2013 requirements for photovoltaic power park connection

Specific procedures
- Order nr. 74/2013, modified by ANRE Order nr. 59/2014 Notification and conformity tests procedure

Technical aspects

Adoption Process

Consultation: Design & institutes, Stakeholders, NRA approval

European Commission submission – EU Directive 98/34/CE
1. Current situation – CC implementation – early actions

- Contribution to Connection Codes’ translations in Romanian language;
- Open debates/dialogue with stakeholders and DSOs - from 2013 TEL has promoted RfG draft terminology and provisions (CN CIGRE, National & Regional Conferences);
- Collaboration with Standardization Association (ASRO) for harmonization with national terminology and requirements;
2. RfG implementation - Responsibilities

**NRA (ANRE) process coordinator**
- ANRE site:
  - Transparency of the process
  - Drafts
  - Final document

**TSO (Transelectrica) Grid Code administrator**
- Transelectrica site:
  - Transparency
  - Support documents, standards, actual technical norms & procedures
  - Drafts
  - Final document

- Proposal of non exhaustive & detailed requirements
- Technical Norm & Procedure elaborator

**Organization of meetings**
- Involvement of: associations, stakeholders, organisations, DSOs

**Meeting & Debates/dialogue**
- Respond to questions

**Approval of Norms and Procedures – national level**
- CE submitting

**Final adjustments**
- Approval of Norms and Procedures
2. RfG implementation - Concept

EUROPEAN LAW: Network Code On Requirements For Grid Connection Of Generators

Romanian secondary regulatory framework – network codes

Technical Norms:
• Non exhaustive requirements agreed at Continental Europe level (TSOs);
• Non exhaustive requirements approved at national level;
• Detail requirements.

Procedures (Title III to VI):
• Operational notification procedure for connection;
• Compliance & tests;
• Derogations;
• Emerging technologies.

Internal TSO & DSO Procedures

ONE GRID CODE

For each CC
2. RfG implementation - Process

- Up to February 2016 – elaboration of concept, process and steps
- March 2016 – TSO – NRA meeting →establishing of the work-frame, nomination of working groups
- June 2016
  - TSO first draft proposal for structure
- May 2016
  - TSO proposal for non-exhaustive values (class, ranges)
- November 2016
  - TSO Technical Norm draft
- ANRE starts the process of debates/discussions
- ANRE decision
- ANRE decision

2013 – NT & procedures debates, consultation, adoption, application

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2. RfG implementation - action plan

- TSO-NRA analysis on implementation strategy: road-map, responsibilities;
- Meetings ANRE-TEL regarding proposal on requirements, time-table and necessary procedures - mid March;
- Transparency – publication on TEL web-site;

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3. Transparency

• Publication of documents - TSO web-site:
  – NC RfG document,
  – Support documents: Norms & procedures in force, Standards presentations related to generators less than 1 MW – for DSO necessities,

• Consultation process:
  – Awareness: on ANRE & TEL web-site and media public releases;
  – Targeted areas: associations of generators, main producers, study & research institutes, ASRO, Universities, Manufacturers, DSOs.
4. Particularities on HVDC & DCC implementation

• HVDC
  – Technical norm will define non-exhaustive requirements as default values;
  – Procedures – will be elaborated in case of such users, if any;

• DCC
  – Will start with NRA-TSO-DSO consultation before establishing the framework and responsibilities between TSO and DSOs
Status of process

- First analyze TSO-NRA on strategy of implementation regarding frame, timetable, responsibilities;
- Next meeting ANRE- TEL regarding first proposal on requirements, timetable and volume of procedures will be in the middle of Mach;
- Started the process of transparency – TEL site;
Thank you!