

# 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)

Distribution Code (DSO)

One structure including:

Requirements for generation connection

Monitoring, etc.

One structure including:

Link to
Detailed requirements
for connection
etc.

Specific requirements

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

aspects
Specific
procedures

Technical

**RES** integration

(pilot)

Order nr. 74/2013, modified by ANRE Order nr. 59/2014 Notification and conformity tests procedure **Consultation**: Design & institutes, Stakeholders,

NRA approval

European
Commission
submission – EU
Directive 98/34/CE

# . 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;

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## 2. RfG implementation - Responsibilities

NRA (ANRE) process coordinator

TSO (Transelectrica)
Grid Code administrator

**ANRE site:** 

Transparency of the process
Drafts
Final document

Transparency

Transelectrica site:

Support documents, standards, actual techical norms & procedures

Drafts

Final document

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

Organization of meetings Involvement of: associations, stacholders, 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:**

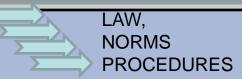
- Non exhaustive requirements agreed at Continental Europe level (TSOs);
- Non exhaustive requirements approved at national level;
- Detail requirements.

#### **Procedures (Title III to VI):**

- Operational notification procedure for connection;
- Compliance & tests;
- Derogations;
- Emerging technologies.

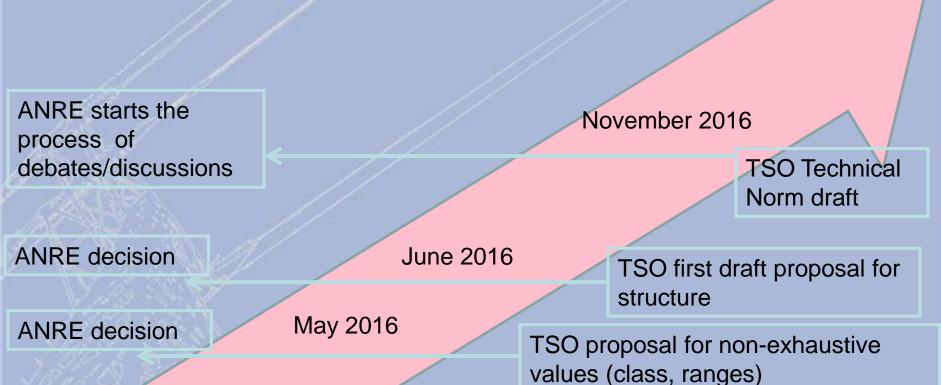
Internal TSO & DSO Procedures

ONE GRID CODE



For each CC

## 2. RfG implementation - Process



March 2016 – TSO – NRA meeting →establishing of the work-frame, nomination of working groups

Up to February 2016 – elaboration of concept, process and steps 2013 – NT & procedures debates, consultation, adoption, application 25 February 2016

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### 2. RfG implementation - action plan

- TSO-NRA analysis on implementation strategy: roadmap, 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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- 4	NT		NRA-TEL	Elaboratio	n	Consultation	Aproval	Sumission	final aproval				
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115			199	proposal									
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HVDC	Procedures			1									
3777			proposals										
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DCC	Procedures			Elaboration			Consultation			Aproval			

# Transelectrica

### 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, time table, responsibilities;
- Next meeting ANRE- TEL regarding first proposal on requirements, time table and volume of procedures will be in the middle of Mach;
- Started the process of transparency TEL site;



# Thank you!



25 February 2016 Pag 12/12