

ENTSO-E Scenario Development

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Aim of the presentation

- To present the ENTSO-E development of the Scenario Outlook and Adequacy Forecast for year 2011 in the process towards the next TYNPD 2012 and RIPs 2011
- To underline the main improvements of the ENTSO-E System Adequacy Forecast Report for year 2011 in respect to the previous one
- To look forward the next steps

Towards Scenario Outlook and Adequacy Forecast for year 2011

- European Generation adequacy outlooks mandated by EC Regulation n. 714/2009
- Input and basis for the development of scenarios in the TYNPD 2012 and RIPs
- Monitoring tool for Stakeholders on security of electricity supply and investments needs in a mid long term horizon
- Methodological improvements in scenario developments for year 2011 and next steps

Scenario Outlook and Adequacy Forecast for 2011

SO&AF Report 2011-2025

- Change of denomination of ENTSO-E System Adequacy Forecast Report for year 2011
 - “Scenario Outlook and Adequacy forecast 2011-2025”
- New format and structure for SO&AF report from year 2011 on
 - Three main sections: Scenario Outlook, Adequacy Forecasts and National Adequacy Forecasts
 - Scenario Outlook and Adequacy forecasts session analyzed at ENTSO-E level and regional level.
- Goal
 - Consistency with TYNDP and RIPv Package
- Publication of SO&AF Report for year 2011
 - End of January 2011

Scenario Outlook and Adequacy Forecast for 2011

Aim and perimeter of the SO&AF Report 2011-2025

- Measure the ability of the electricity power system to supply the load in the ENTSO-E area for mid and long term time horizon
- Overview of generation, demand and their adequacy in the different scenarios
- Generation adequacy assessment carried out for
 - ENTSO-E area
 - Regional groups
 - Individual countries/control areas

Regional Groups/Regional blocks

North Sea:

BE,DK,FR,DE,GB,LU,NL,NI,NO,IE

Baltic Sea:

DK,EE,FI,DE,LV,LT,NO,PL,SE

Continental South West:

FR,PT,ES

Continental South East:

BA,BG,HR,MK,GR,HU,IT,ME,RS,RO,SI

Continental Central South:

AT,FR,DE,IT,SI,CH

Continental Central East:

AT,HR,CZ,DE,HU,PL,RO,SK,SI

Isolated systems: CY,IS

Additional contributing country: UA-W



Scenario Outlook and Adequacy Forecast for 2011

Main improvements in SO&AF 2011-2025

- Construction of an additional top down EU2020 Scenario reflecting the EU Energy policy objectives
- Adequacy generation assessment carried out with a power approach plus energy approach
- Data collection process by each TSO belonging to ENTSO-E managed jointly for scenario A, B and EU 2020 scenario within end of September 2010 and adjustments till December 2010 to improve data quality
- New format and structure of the Report already for year 2011
- New time plan for the preparation of SO&AF from year 2012 on

Scenario Outlook and Adequacy Forecast for 2011

Main improvements in SO&AF 2011-2025

- Data collection
 - Years 2010,2015,2016, 2020 and 2025
 - Reference points
 - 3rd Wednesday of January 19 p.m. (winter)
 - 3rd Wednesday of July 11 a.m. (summer)
- Forecasts are made according to
 - Scenario A
 - Scenario B
 - New EU 2020 Scenario based on NREAP
- Introduction of estimated indicators to assess how much the power sector contribute to the achievements of the EU 2020 targets
 - Reflecting the impact of efficiency measures on electricity consumption
 - CO2 emissions
 - RES share in supplying the electricity consumption

Scenario Outlook and Adequacy Forecast for 2011

Main improvements in SO&AF 2011-2025

- Methodological improvements:
 - Comparisons between different scenarios in order to get a view on how generation adequacy and investments needs will look like in different conditions
 - Scenario B versus EU 2020 Scenario showing the difference between investments considered by TSOs with those necessary to meet political targets according to EC Directive and NREAP
 - Scenario A versus EU 2020 Scenario showing the difference between investments already decided with those necessary to meet political targets according to EC Directive and NREAP
- Scenario B and EU 2020 Scenario will be used to assess grid developments in the TYNPD and RIPv

Conclusions and Next Steps

- SO&AF background for the development of scenarios in the TYNDP
- The construction of the ENTSO-E EU 2020 Scenario has been the main challenge for SO&AF in year 2011
- Methodological improvements as learning process
 - Adequacy assessments based on market studies subject to changes and improvements in next editions
 - Indicators on 2020 targets
- SO&AF to be published
 - Separate Report in ODD years (2011, 2013...)
 - Embedded in the TYNDP in EVEN years (2012, 2014...)