ENTSO-E Public Stakeholder Consultation Workshop

on "Visions for 2030, a bridge between 2020 and 2050 Objectives"

General Overview on SO&AF Report 2012

Cristina Pascucci

WG SA&MM Convenor

entsoe

Reliable Sustainable Connected

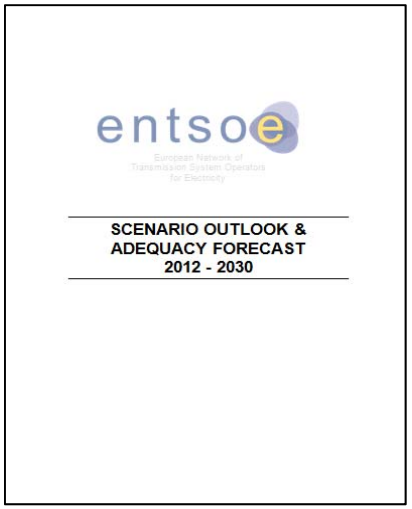
SO&AF 2012-2030 included in the TYNDP package 2012

Assessment of the evolution of generation and load in mid- and long-term time horizon

Overview of generation adequacy for the ENTSO-E interconnected system

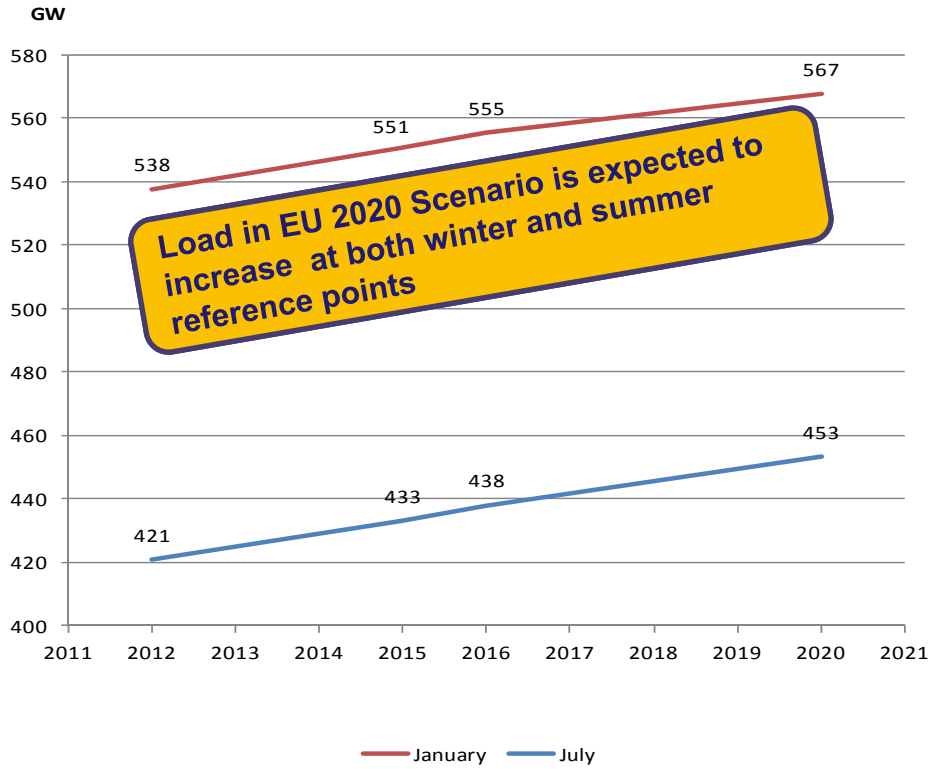
- Three contrasting scenarios, covering different evolutions for generating capacity and load, for the period 2012 – 2025
- Providing national and regional overviews on the ENTSO-E generation adequacy.

Presenting the visions of ENTSO-E in 2030



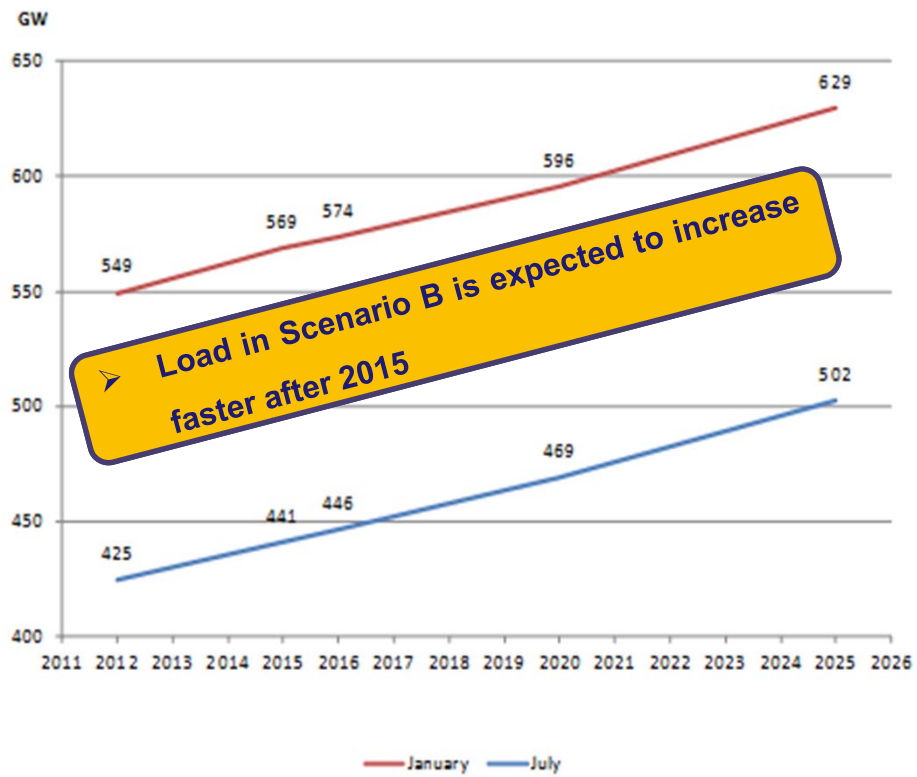
In consultation until 26th April

SO&AF 2012-2030 Report - MAIN RESULTS: LOAD



[%]	2011 to 2015	2015 to 2020
January	0.8	0.6
July	1	0,9

ENTSO-E average annual load increase rate for Scenario EU 2020



[%]	2012 to 2015	2015 to 2020	2020 to 2025
January	1.6	0.9	1.1
July	1.3	1.2	1.4

ENTSO-E average annual load increase rate for Scenario B

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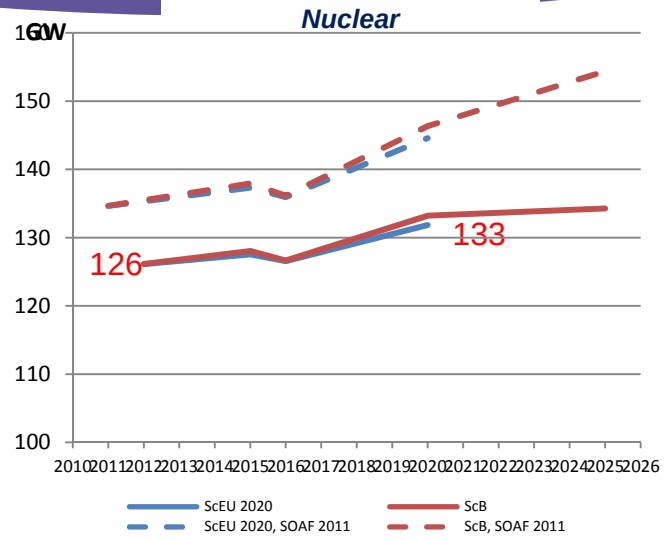
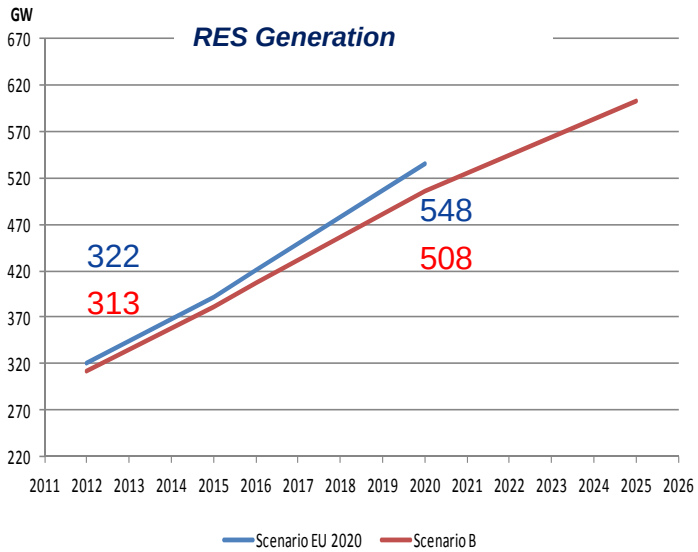
SO&AF 2012-2030 Report - MAIN RESULTS: GENERATION

- **Nuclear power is expected to increase in Scenario B notwithstanding Nuclear Phase out of 8 GW**

Comparison of Nuclear power plants installed capacity per scenario between SO&AF 2011 and SO&AF 2012, January 7 p.m.

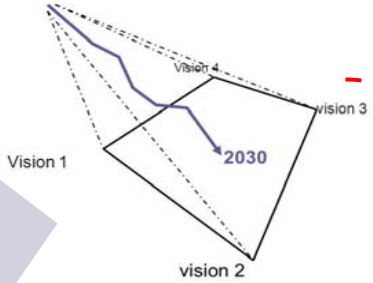




- **RES is expected to grow fastly both in Scenario B and EU 2020**
- **The biggest increase is expected for Wind (210 GW in 2020) and Solar power (106 GW in 2020)**
- **The total increase of RES is 216 GW (from 2012 up to 2020) in EU 2020 Scenario and 194 GW in Scenario B**

Comparison of RES installed capacity Scenario B and EU 2020

SO&AF 2012-2030: the way forward



TYNDP 2014

Scenario Development

- ✓ *To define criteria and parameters*
- ✓ *To build Top Down 2030 Scenarios*
- ✓ *To consult on*

Stakeholders Workshop

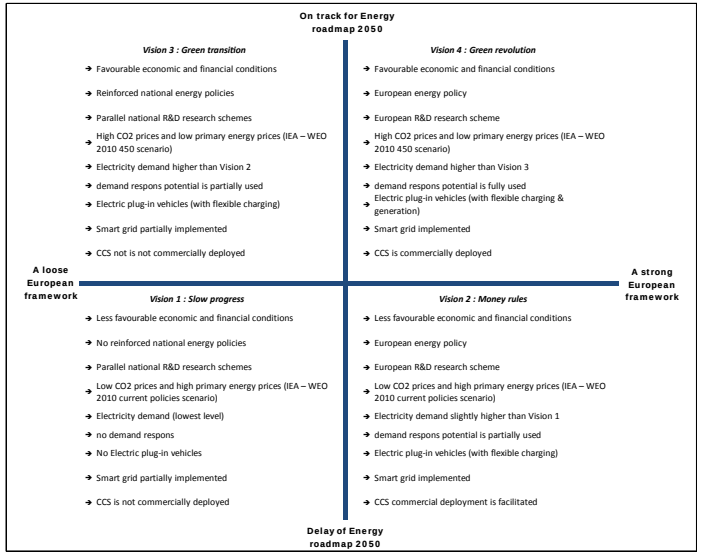
- ✓ *Interact with Stakeholders (Q&A)*
- ✓ *Data collection allowing to translate and fine tune the four "2030 Visions" into future Scenarios*

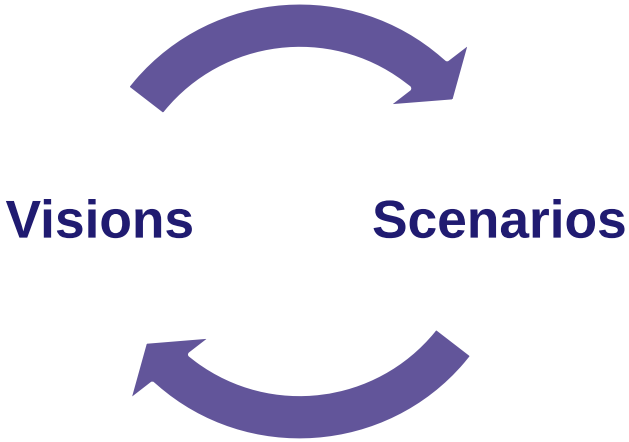
Chapter 3 SO&AF 2012

- ✓ *Introduce the concept of longer term horizon beyond 10 Years*
- ✓ *4 different Visions in order to define a range of possible scenarios in 2030*

Next steps: from “Visions” to “Scenarios”

- **In SO&AF 2012 Visions are represented on the base of:**
  - ***European framework***
  - ***Energy roadmap 2050***





- **In order to perform analyses in these different contests it is necessary to develop, for each Vision the rule of electricity in terms of:**
  - ***Energy perspective***
  - ***Energy vector***
  - ***Tool for economic development***

Next steps: main Issues for the future scenarios

Energy

Perspectives

Long-term outlooks (IEA…) develop the same hypothesis: in the future electric energy will develop more than other energies

i.e *Also in more developed Countries, as Europe*

Electricity as a Vector

Ability to integrate in the grid massive renewable energy sources, not elsewhere deployable, and eligible for decarbonization:

a. photovoltaic
b. onshore & offshore wind
c. hydro
d. tidal

Electricity As a tool for development

Some “instruments” to manage the decarbonization path:

a. Renewable energy
b. Smart grids
c. Electric mobility
d. Heat pumps
e. Storage