



# ENTSO-E Winter Outlook

User's Group 06/12/2012

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# ENTSO-E Winter Outlook

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Elia Press Release

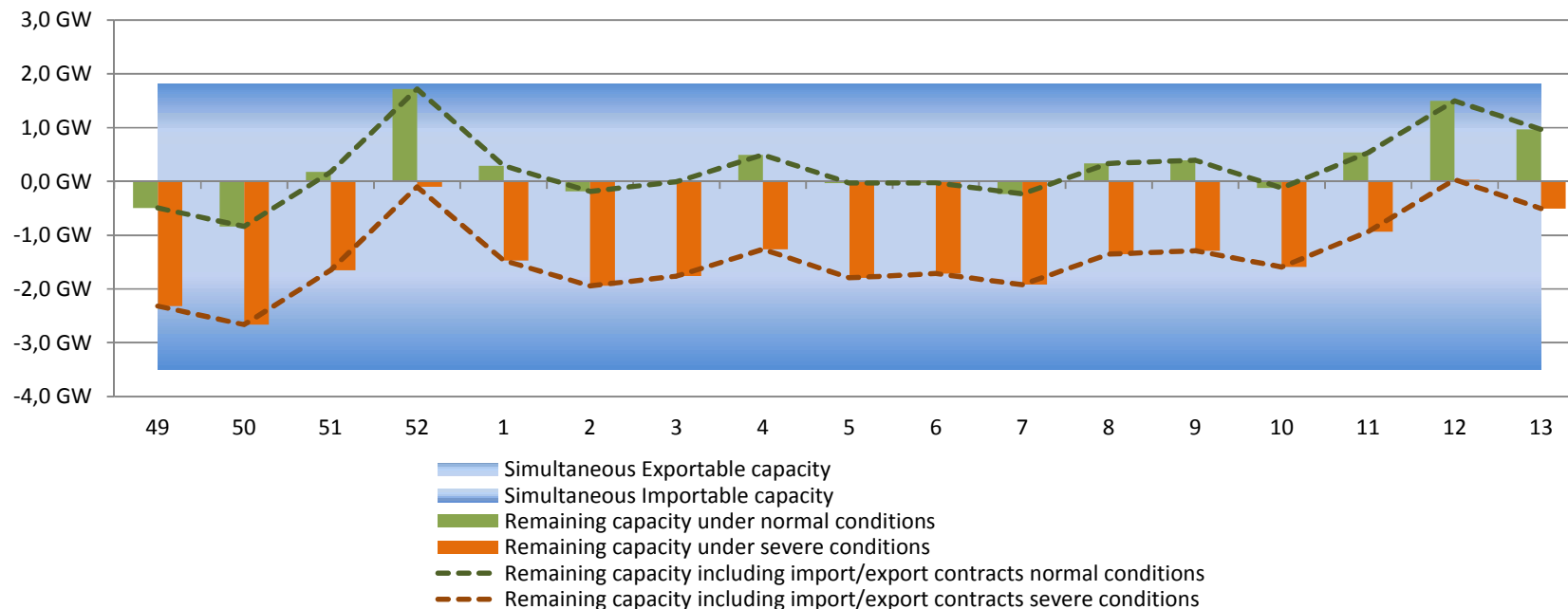
## Presentation overview:

- A (concise) view on the Belgian situation
- A view on the European situation
- Actions undertaken by Elia to follow-up the Belgian situation during winter

## A view on the Belgian situation (1/2)

- For the ENTSO-E Winter Outlook, a deterministic assessment of the forecasted Belgian situation for the coming winter was performed;
- The assessment is NOT a market study. The goal is to detect every country's and the European capability to cope with a possible energy shortage.

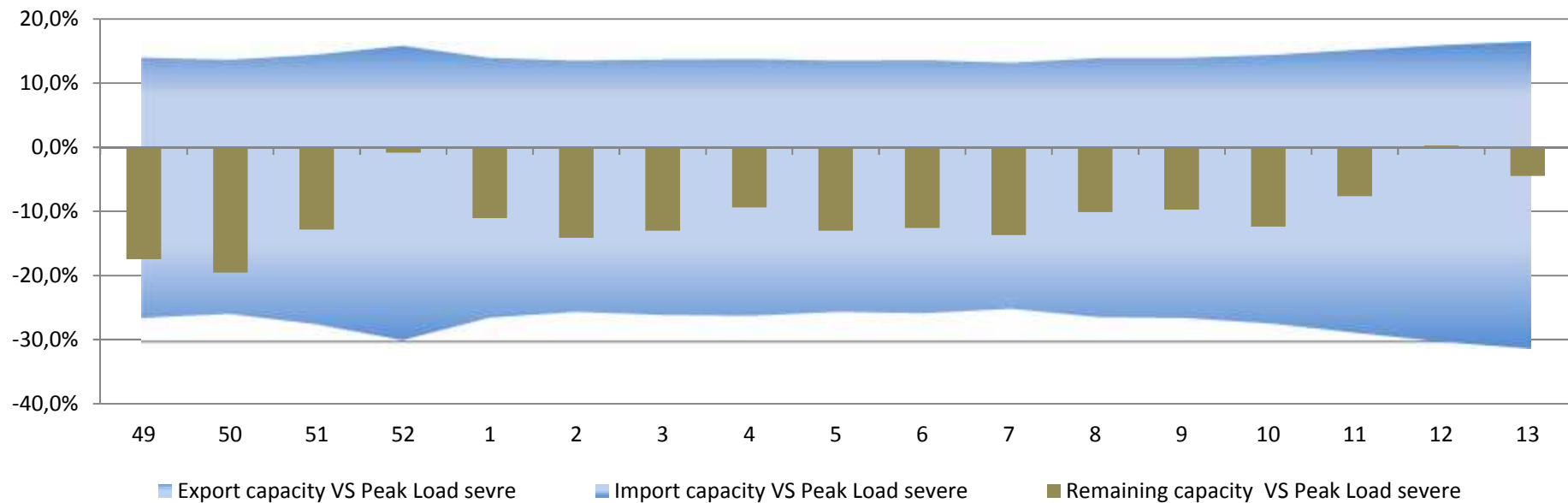
Remaining Capacity: Belgium



## A view on the Belgian situation (2/2)

- Main driver for the tense situation in Belgium is the additional unavailability of ca. 2000 MW of nuclear power compared to last winter;
- This results in a structural dependence of Belgium on imports, especially when high-load conditions occurs.

Relative indicators: Belgium



# A view on the European situation: Main factors of risk for the European System

## On generation and load balance

- Load sensitivity to climatic conditions, cold spells.
- Hydrologic conditions.
- Fuel availability (especially gas).
- Constraints on generation capacity.

## Unavailability of nuclear generation capacity in Belgium

- esp. in case of elevated demand in the region, limiting availability of energy on the regional market

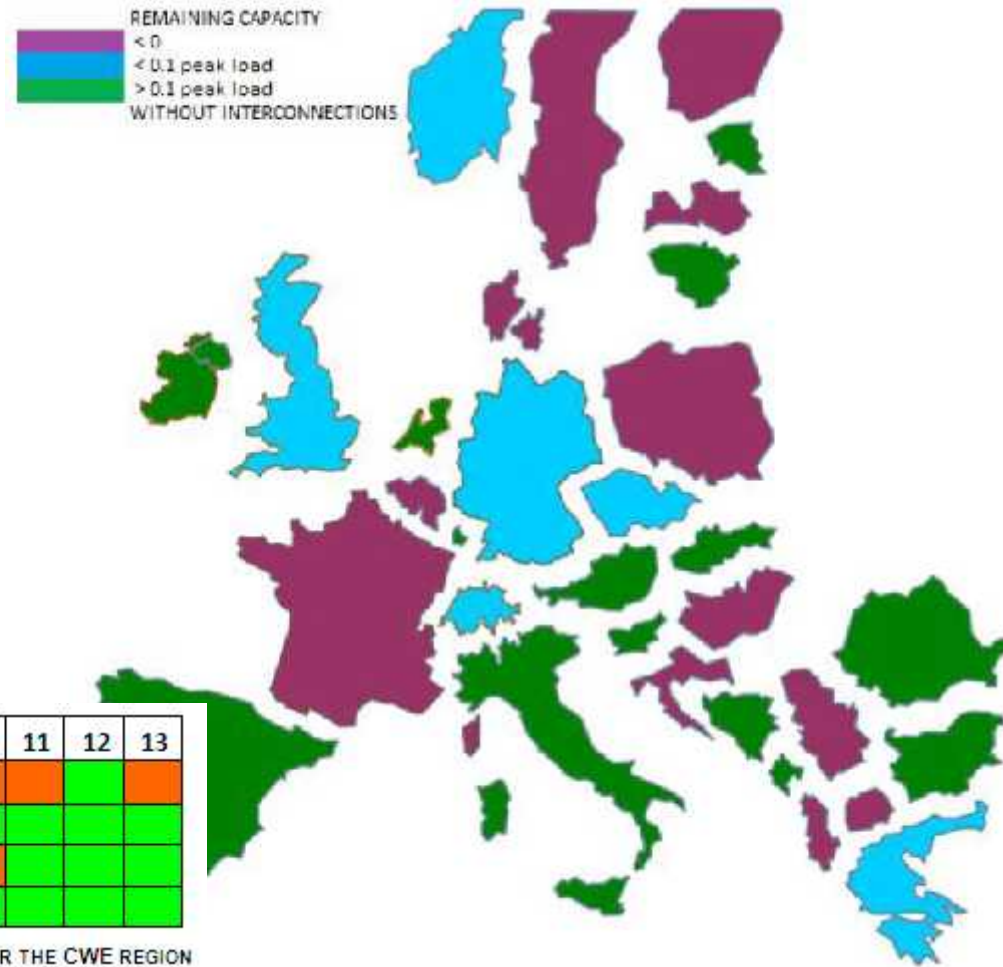
## On network security

- **Significant unscheduled flows** .
- Climatic conditions.
- Congestions in the internal grid, including local voltage regulation problems.
- External generation/load imbalances.
- Wind feed in.

# A view on the European situation: Remaining capacity versus peak load

Example: last week of January 2013 (Week 5)

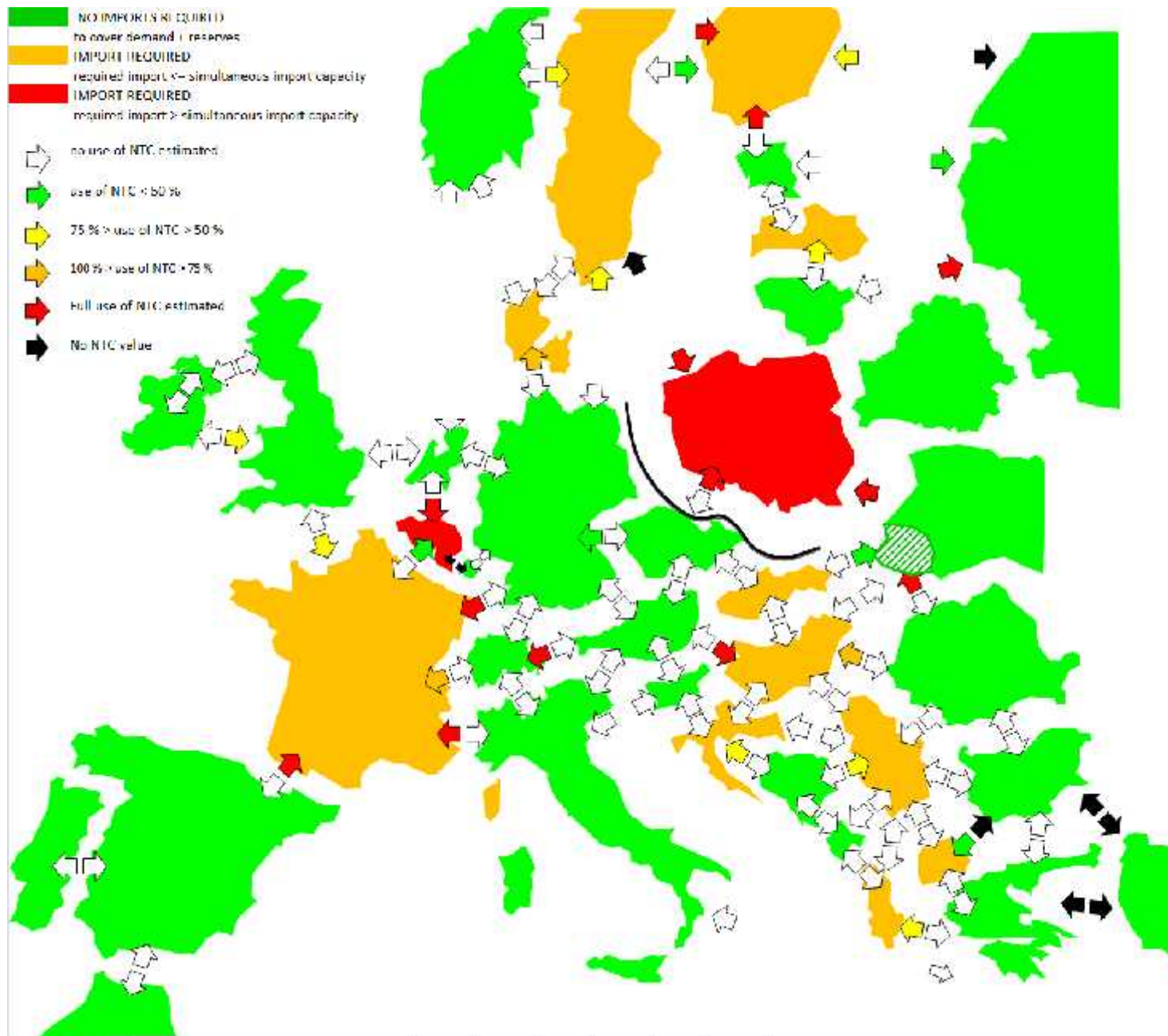
- Violet: negative national remaining capacity
- Blue: remaining national capacity less than 10% of peak load
- Green: more remaining national capacity



Severe	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	
BE	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Orange
DE	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
FR	Green	Green	Green	Green	Green	Green	Orange	Orange	Orange	Orange	Orange	Orange	Green	Green	Orange	Green	Green	Green
NL	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

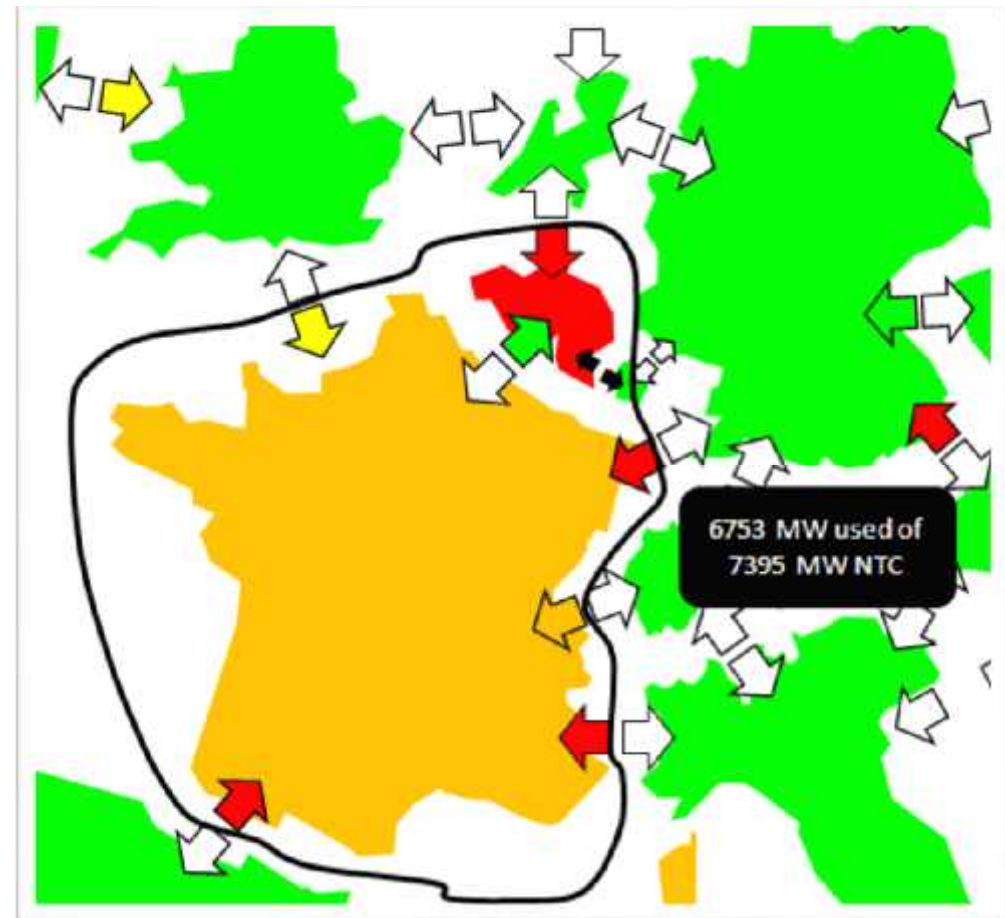
TABLE 3: OVERVIEW OF THE ADEQUACY INCLUDING CROSS-BORDER EXCHANGES FOR THE CWE REGION

**Example: last week of January 2013 (Week 5)**



## A view on the European situation: Detailed situation for Week 5

In case of high simultaneous importing needs for Belgium, France and Germany, the risk of non-manageable physical flows on the Belgian grid becomes significant, leading to additional – possibly demand-limiting – actions to be taken.





## Follow-up of the Belgian situation during winter

- **Systematic internal processes for monitoring the real-time and previsional scarcity issues;**
- **This assessment uses a combination of several indicators, including:**
  - Temperatures
  - Net positions of CWE countries
  - Forecasted remaining margin for Belgium
  - Physical power flows on crucial interconnectors
  - Day-ahead market prices
- **A general scarcity indicator (real-time and previsional) will be published on the Elia website and on the government's website**



**Thank you for your attention**