

ENTSO-E Summer Outlook 2019

European Network of Transmission System Operators
for Electricity (ENTSO-E)

Electricity Coordination Group - 10 July 2019

Different risks addressed with different timeframes



Long term

>10 years

Mid term

10 years

5 years

1 year

Short term

6 months

1 week

Policy decisions

Investment decisions

Operational decisions

REAL
TIME

← UNCERTAINTY INCREASES

What do the outlooks tell you?



Role of interconnections



Influence of external factors: weather, hydro reservoir level, market conditions, consumer behaviour, robustness against gas disruption...



Sensitivity analysis: look for severe case scenario (1 out of 20 years) & see how system reacts



Review of the previous season for a deeper understanding and improvements

Seasonal Outlooks- Stepwise approach

Inputs from TSOs and pan-European databases

European constraining scenarios

synchronous peak
(upward) → Wednesdays 7 pm

low demand with high RES
(downward) → Sundays 5 am and 11 am

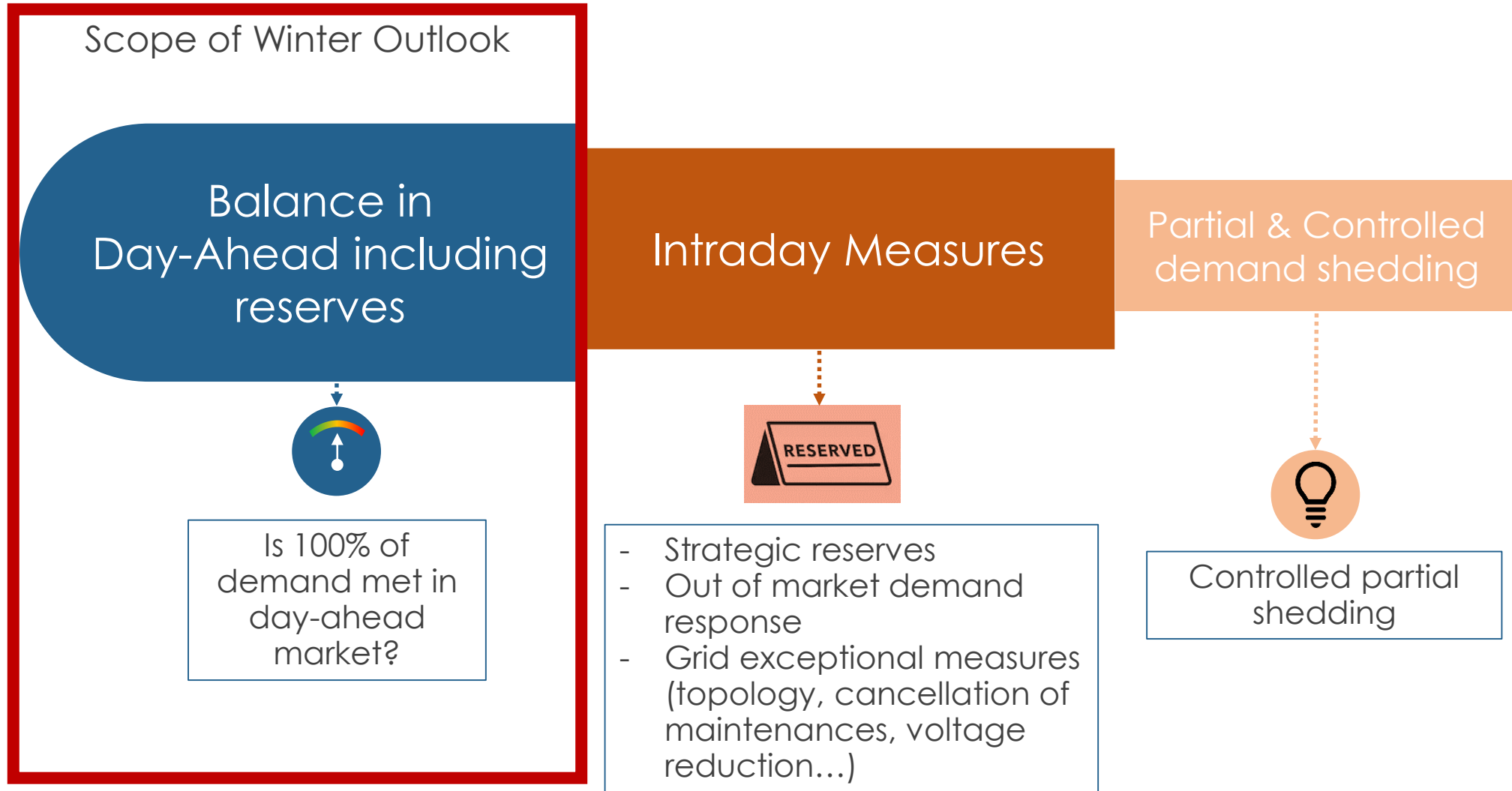
Focused analysis on weeks flagged at risk

Probabilistic approach using numerous situations (temperature, wind, simultaneous severe conditions...)

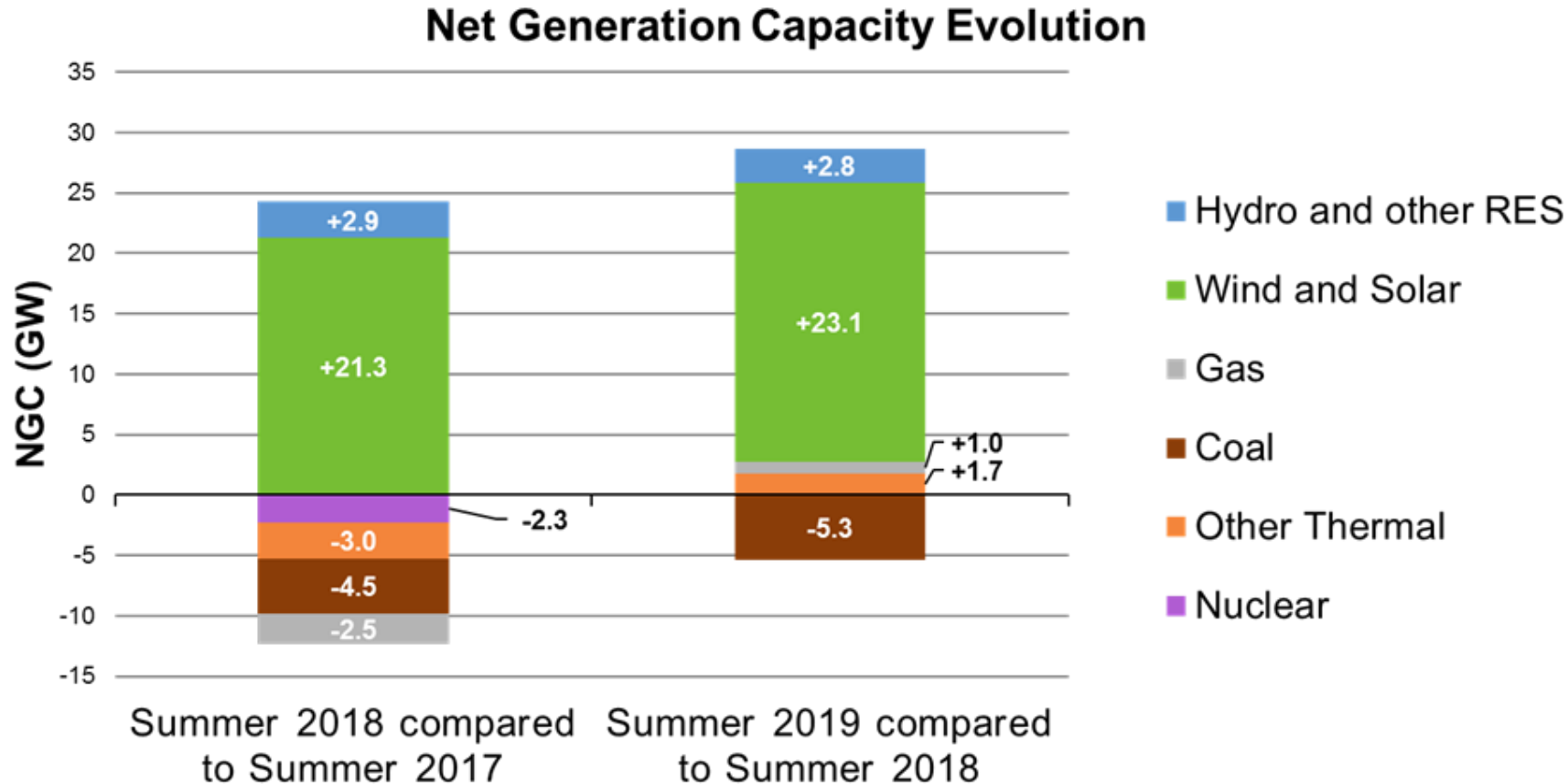
Aim is to estimate the probability that an issue could occur

Main drivers are identified (evolution of the generation mix, decrease of network/generation availabilities...)

Lack of margin is not a blackout



Evolution of Europe's generation mix



Net generation capacity increase in Europe more than doubled

Acceleration of new RES installation

Coal generation capacity continuous decreasing

Summer Outlook- Severe Conditions



Adequacy at pan-European synchronous peak demand time

Week	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
AL																		
AT																		
BA																		
BE																		
BG																		
CH																		
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Adequacy indicators of Italy better compared with last summer

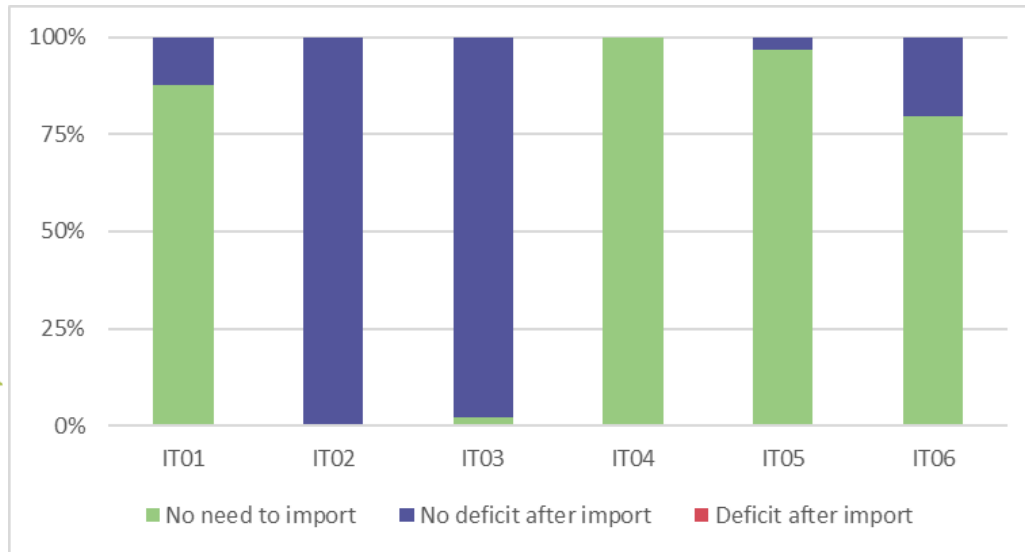
Supply margin is tight in week 30, due to high maintenance works

- Country self-sufficient and prone to export from market perspective
- Country self-sufficient but prone to import from market perspective
- Country required to import from an adequacy perspective
- Part of deficit cannot be covered with imports

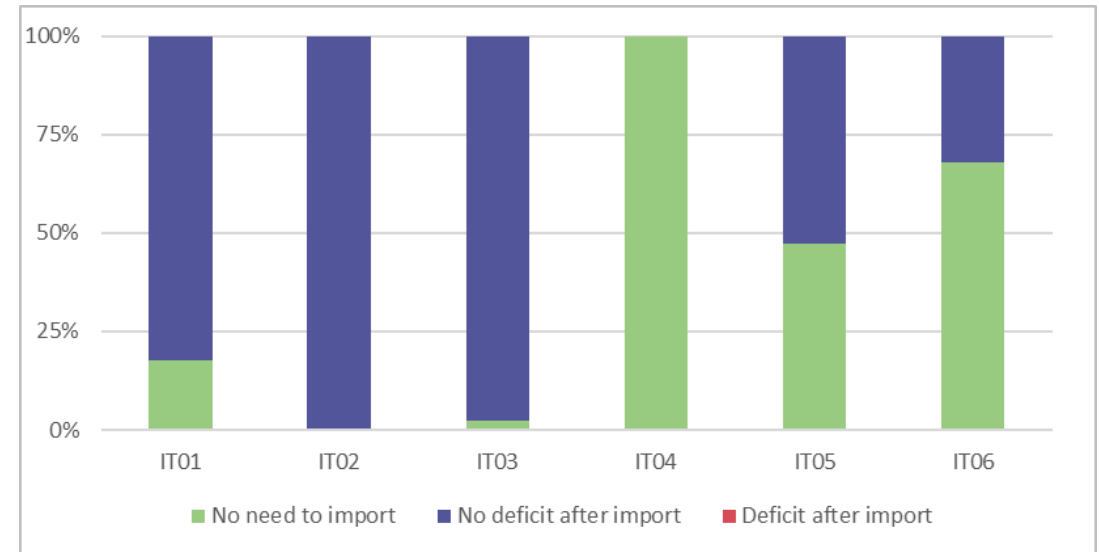
Probabilistic assessment on week 30 of 2019



Summer 2018



Summer 2019



What for future Seasonal Outlooks?

Implement of Risk Preparedness Regulation requirements for Seasonal Outlooks (cf. Art. 8 and 9)

Extend coordination with week ahead adequacy assessments performed by Regional Security Coordinators

Set a scene for Seasonal Outlook full probabilistic hourly modelling in similar way as in Mid-term Adequacy Forecast

Thank you for your attention
