

Strategic reserve volume determination for winter 2019-20

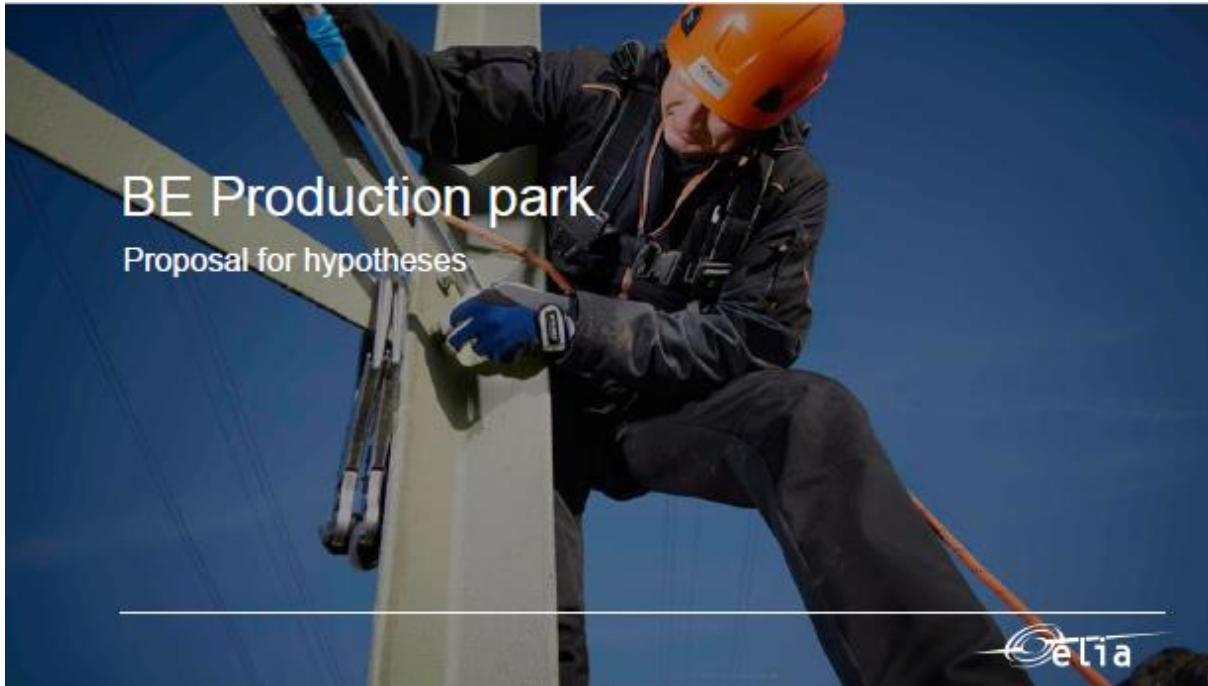
Data and assumptions for the next volume evaluation:
winters 2019-20, 2020-21 and 2021-22



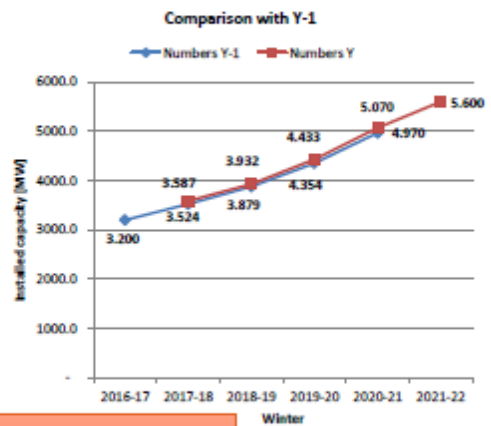
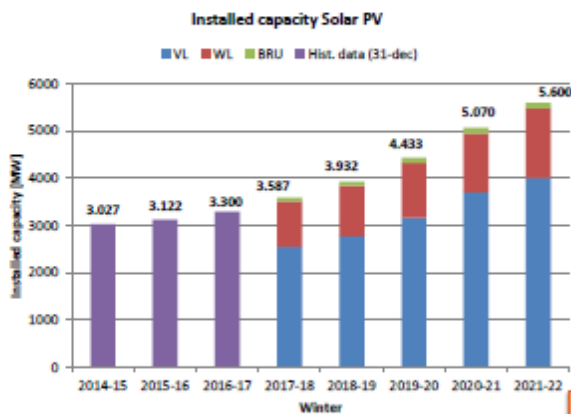
Contents

Data for Belgium

- A. Production – profiled & individually modelled
- B. Balancing reserves
- C. Demand
- D. Market response
- E. Flow Based



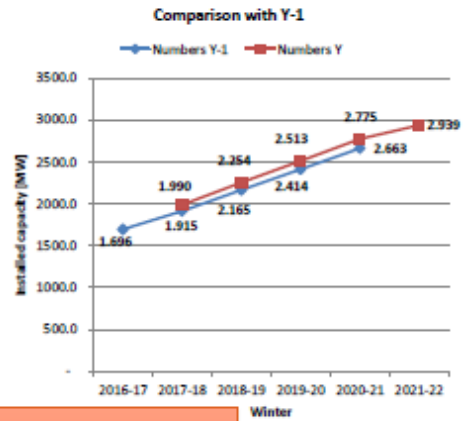
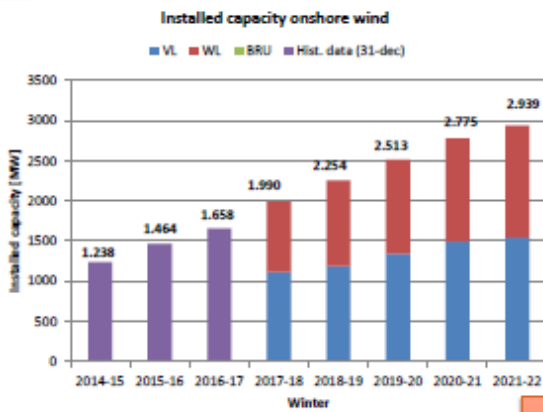
Solar PV – numbers based on information received from regions



No significant increase compared to Y-1



Onshore wind – numbers based on information received from regions

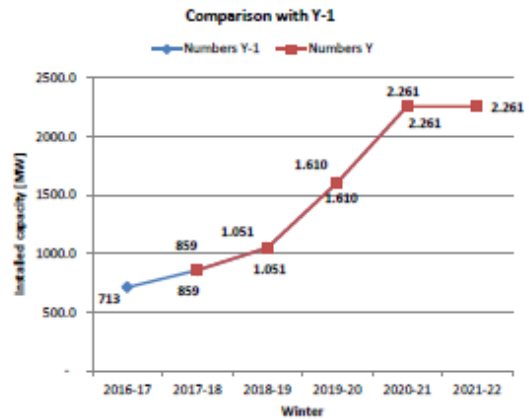
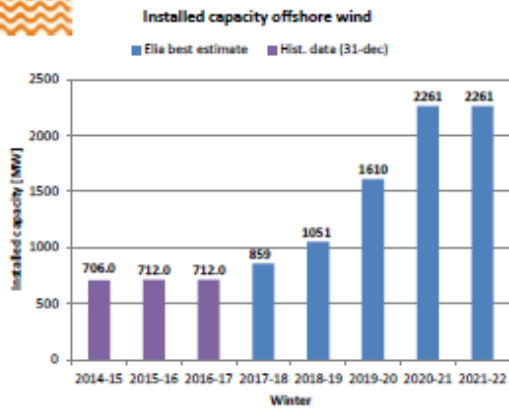


Increase of ~100 MW compared to Y-1

5



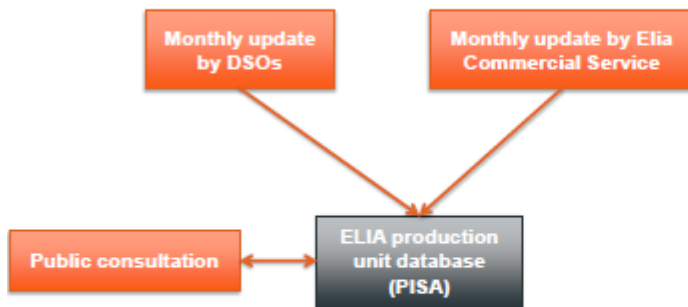
Offshore wind – Elia best estimate



6



Elia production unit database



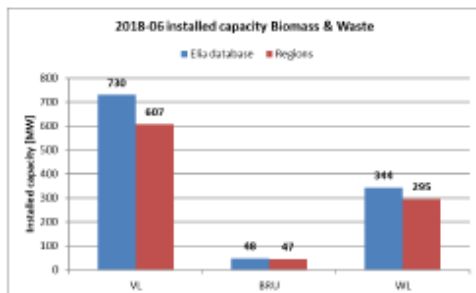
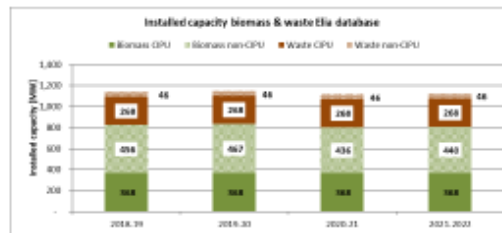
Database used in multiple processes, allowing for various checks:

- Grid planning for new/upgrades of connections
- Operational network studies
- Various open statistics

7



Biomass & waste – comparison with Regions

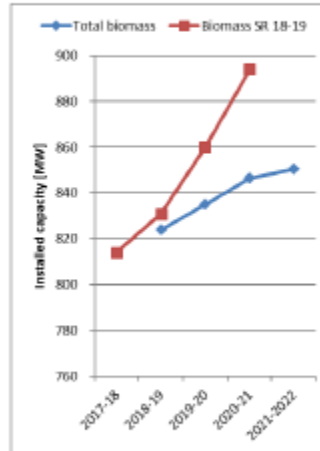
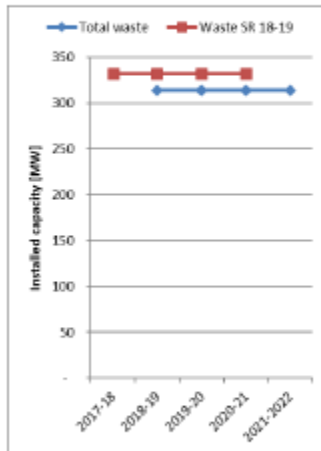


We believe the installed bio/waste capacity is underestimated by the regions based on Elia Database encodings.

We use the regional data as a sanity check & to deduce the future growth rates.



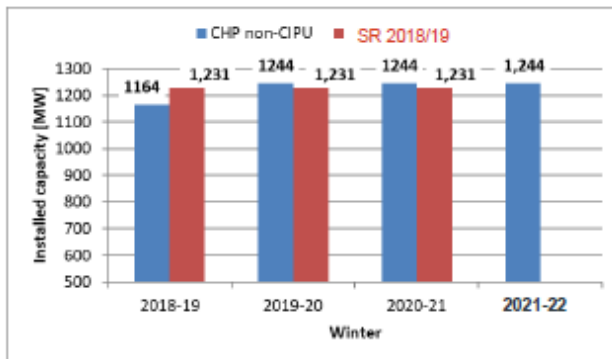
Biomass & waste – comparison with SR 2018/19



“Waste” is lower due to a data quality issue found in SR 2018/19 which is corrected now for SR 2019/20 concerning unit Ipalle Thumaide GTA2

The “Bio” current value is based on Elia Database and the forecast applies the relative evolution as given by the regions.

Non-CIPU (excl. Bio & Waste)

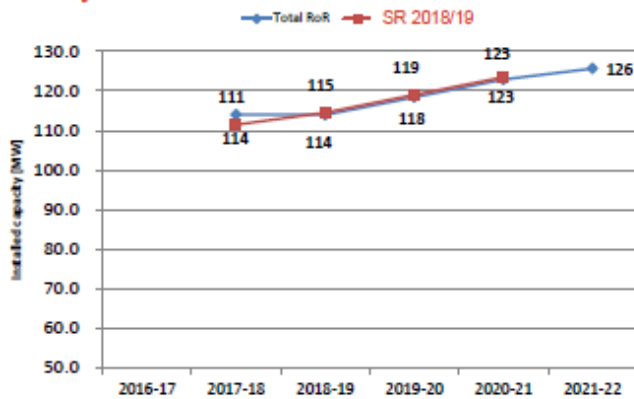


2018-19 retains only 'in service' units

Following winters also take reserved & acquired capacity nominations into account

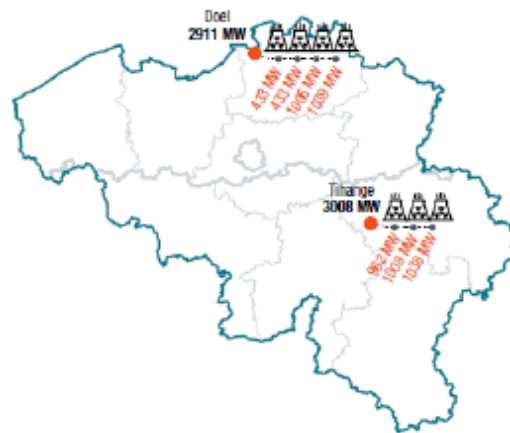
For this year the installed capacity is still under last year's forecast, but we are showing a July Elia Database snapshot

Hydro RoR



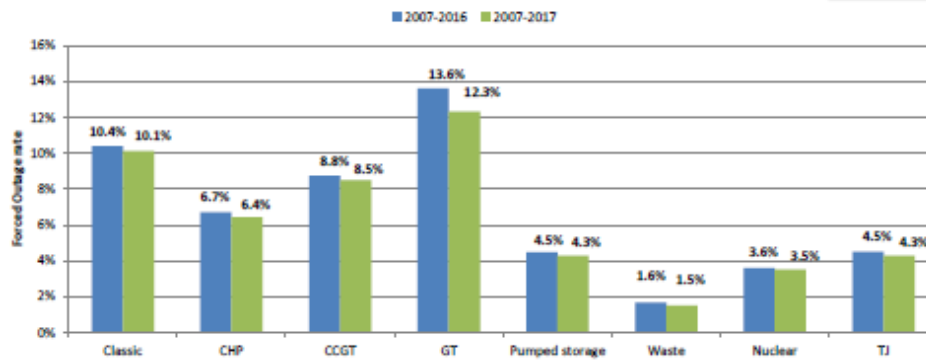
Stable values compared to last year

Nuclear availability:
Full availability is assumed
in the base case

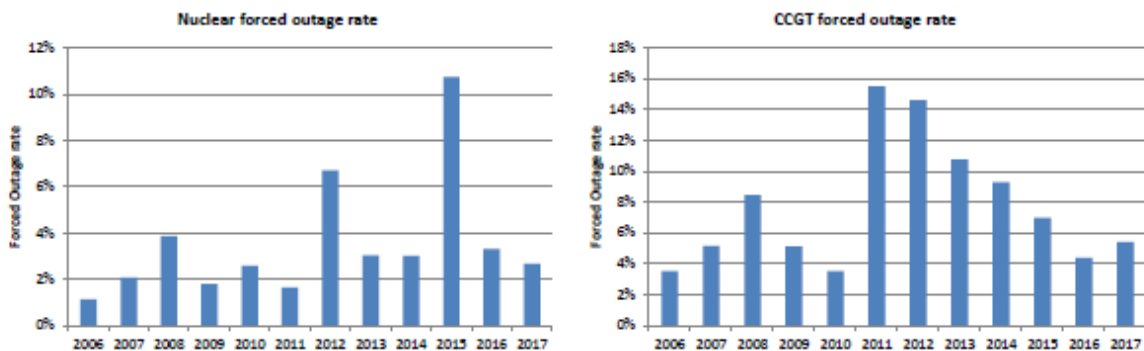


Forced outage rates – update for period 2007-2017

Small reduction in FO rates when 2017 data is considered



Forced outage rate evolution – Nuclear & CCGT



14



CIPU conventional units

See detailed list in XLS file → Sheet "1.2 Ind. mod. thermal prod"



15



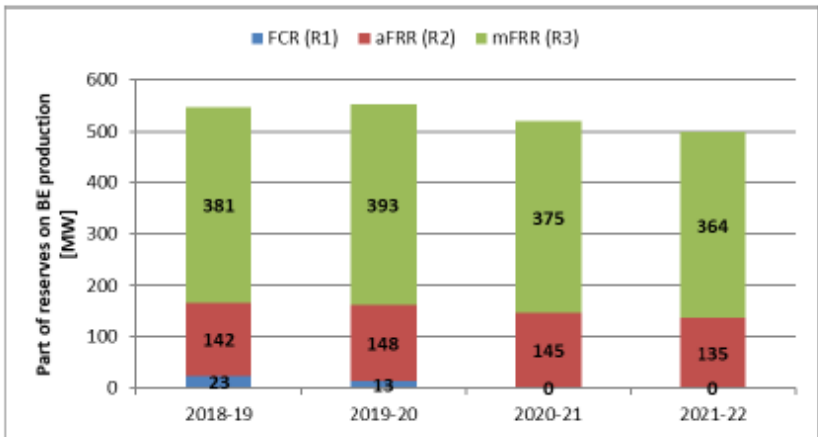
Wordt er rekening gehouden met de mogelijkheid dat noodstroomaggregaten in de markt komen bij schaarste (dus bij zeer hoge elektriciteitsprijzen)?

Een potentieel van 500 à 1000 MW gedurende een beperkt aantal draaiuren (100 uren) lijkt realistisch

Elia houdt rekening met de afwezigheid van de productie-eenheid van Vilvoorde in OCGT-modus, overeenkomstig de huidige status van melding van tijdelijke uitdienstneming. Gezien de niet onrealistische mogelijkheid dat deze eenheid terug in de markt aanwezig zal zijn voor de winter 2019-2020, meent de CREG dat het nuttig is om deze optie nu reeds in een sensitiviteitsanalyse te beschouwen.

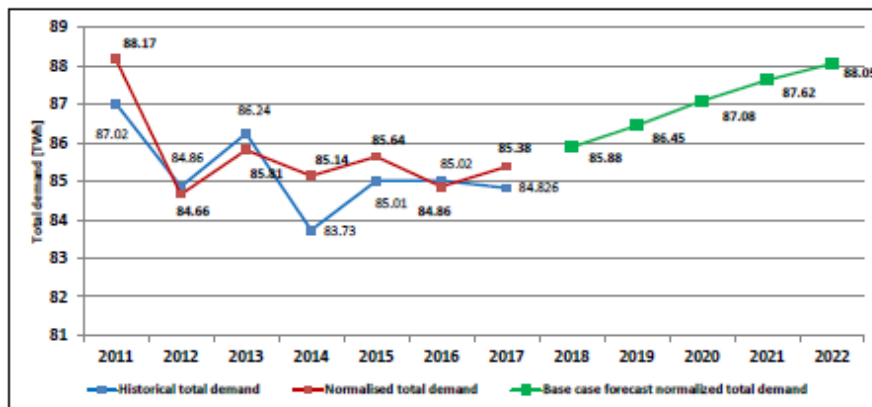


Balancing reserves



Demand evolution

The latest forecasts (Summer 2018) from IHS Markit have been used, incorporating all market insights up until June 2018.



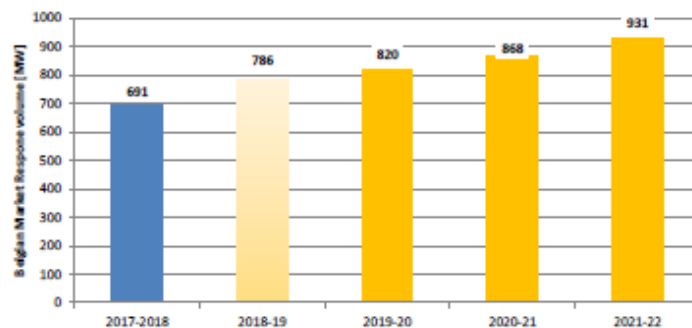
18



Market response – volumes to be taken into account

Results from the analysis from "Ecube consultants", performed during 2018 will be used.

These were discussed with stakeholders during the TF iSR of 09-07-2018. 🗨️



19



In het verleden (2015 onderbrekbare ICH-contracten) bleek dat er een bereidheid was tot vrijwillige onderbrekingen van 8 uur.

Uit de Excelfile blijkt dat enkel onderbrekingen van 1, 2 en 4 uur worden in rekening gebracht.

De CREG meent dat het nuttig zou zijn om op basis van de ervaring met de ICH-contracten activeringstijden van 2, 4 en 8 uur te simuleren (elk voor 1/3 van het vermogen)

De CREG meent dat bij reële krapte in de markt, en dus bij zeer hoge marktprijzen (>500 €/MWh), er nog een belangrijk volume market response kan aangeboden worden, die momenteel niet wordt meegenomen in de analyse van Ecube.

De CREG meent ook dat de invoering van de ToE het potentieel aan demand respons positief beïnvloedt. Werd dit in rekening gebracht?

Major improvement of the FB methodology in cooperation with RTE

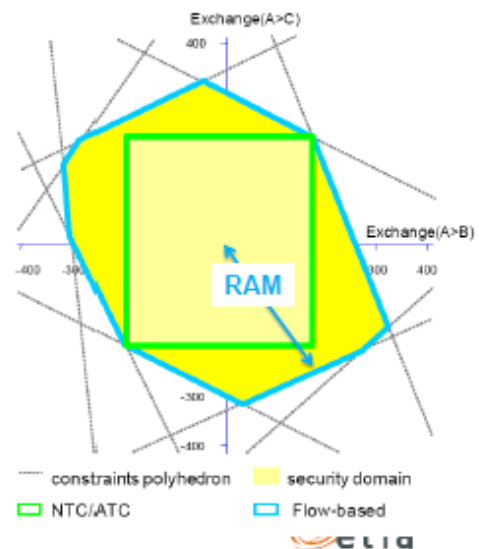
2015-16	NTC only modelling
2016-17	1 flow-based domain for all winter
2017-18	Three flow-based domains with DE wind correlation
2018-19	4 x 24 flow-based domains with a detailed climate correlation
2019-20	4 x 24 flow-based domains with a detailed climate correlation. Update with 2017 SPAIC days.

20



Implementation of Minimum Remaining Available Margin of 20% (MinRAM20%)

From now on the effect of MinRAM20% will be taken into account as baseline assumption for the base-case scenario in any further assessment performed by Elia regarding the volume assessment for strategic reserves, since this feature is currently operational in the capacity calculation of the FBMC framework.



21

De CREG gaat uit dat in set A van de Flow based domains de capaciteit van de NEMO verbinding in rekening gebracht wordt

Kan Elia bevestigen dat bij weinig wind, de importcapaciteit hoger ligt dan indien er veel wind is?

Kan Elia nader toelichten hoe de IC BeDeLux in rekening werd gebracht ?