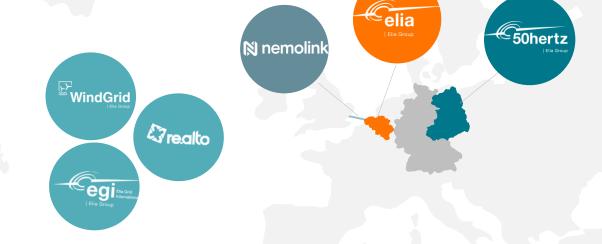


This is Elia Group

For a successful energy transition for a sustainable world







From key
European player
to valuable
global partner,
driving the
energy
transition

01. Leading

TSO Group in Europe

Q3.RAB¹ of

€12.2bn
(CAGR of ~ 19%
2024-2028)

02.

Access to North and Baltic sea

O4.
Publicly listed company

Regulated utility building & operating on-and offshore transmission infrastructure

- Monopolistic position in Belgium and Northeast Germany
- Established and stable regulatory frameworks
- Diversified regulatory risk
- Very high network reliability (> 99%)

Activities to shape growth opportunities

- International offshore transmission
- Digitalisation of the energy system

that increase our societal relevance

 International energy market consultancy and engineering services



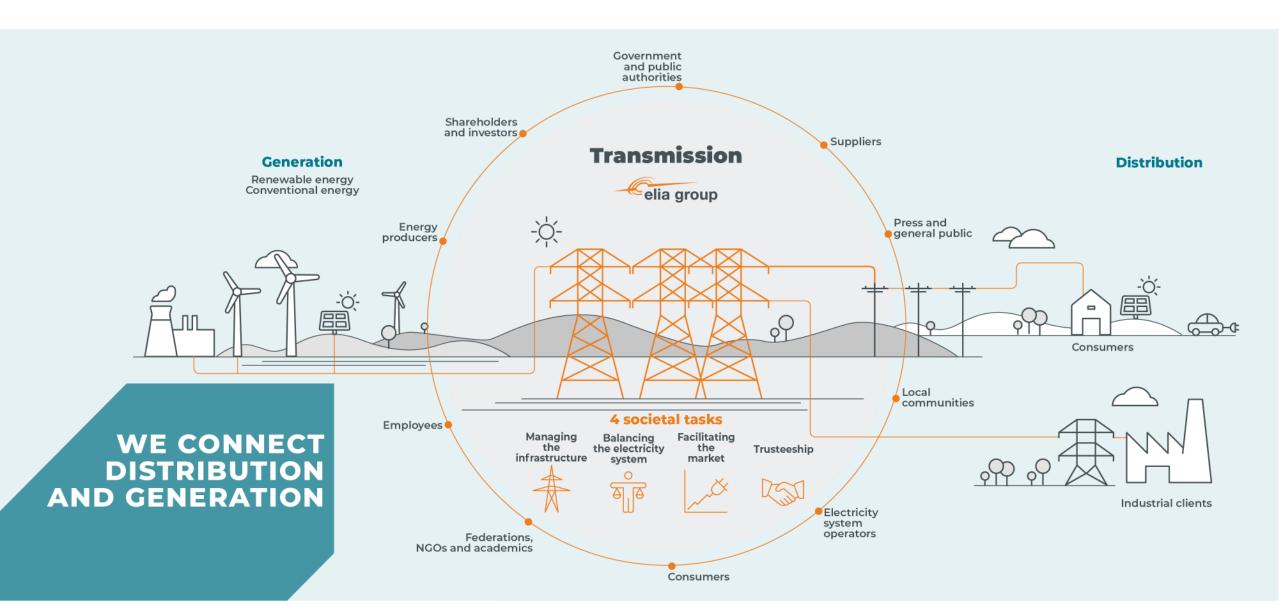




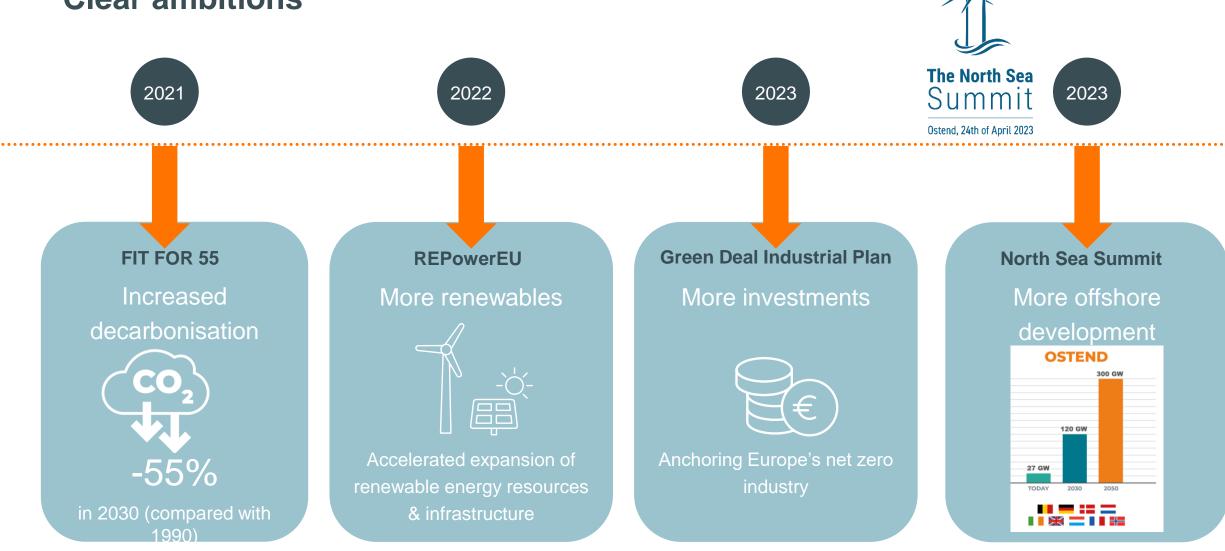


¹Regulated Asset Base. Amount as of FY23.





Clear ambitions



elia group





accelerated integration of renewable energy sources in Belgium

Existing usages and losses

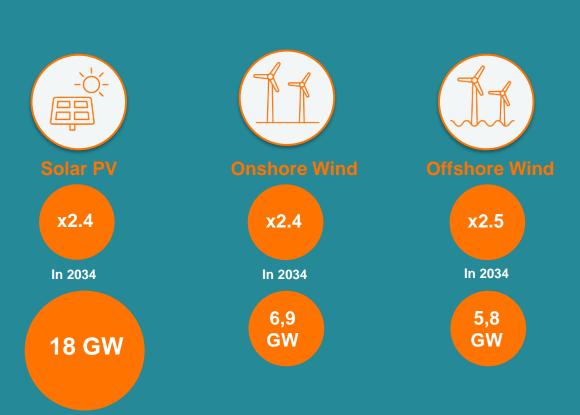
Consumption +20TWh +10TWh **Expected electricity consumption in Belgium** 140 Heating Electricity consumption [TWh] 120 ■E-mobility ■ Electrification of industry, new data centers and electrolysis

2022

2032E

60

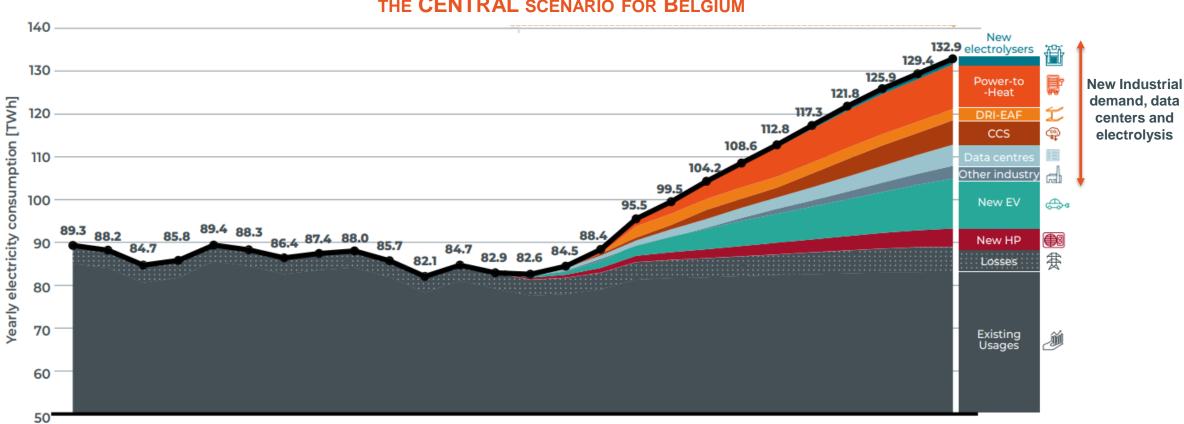
2012



Production

Electricity demand is expected to increase significantly in the coming decade, mainly driven by new electrification in industry, transport and heating





2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035

Electrolysers and power-to-heat are an output of the economic dispatch model

Energy transition: focus points



Grid Infrastructure

For an efficient and orderly energy transition, the grid needs to be ready on time



2

Adequacy

Ensure security of supply during the increase of electricity consumption and intermittent production sources



3

Flexibility

Ensure consumers and industry can valorize their flexibility and benefit from the energy transition



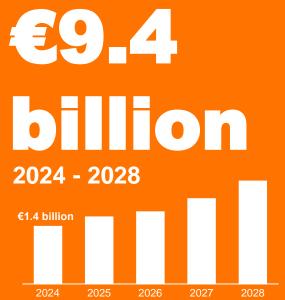






Belgium Investment plan 2024-2028





Leading to ~18% annual RAB growth over the next 5 years

Capex plan includes key new projects, ongoing projects, maintenance capex and IT investments to digitalise system operations.





Facilitating offshore energy



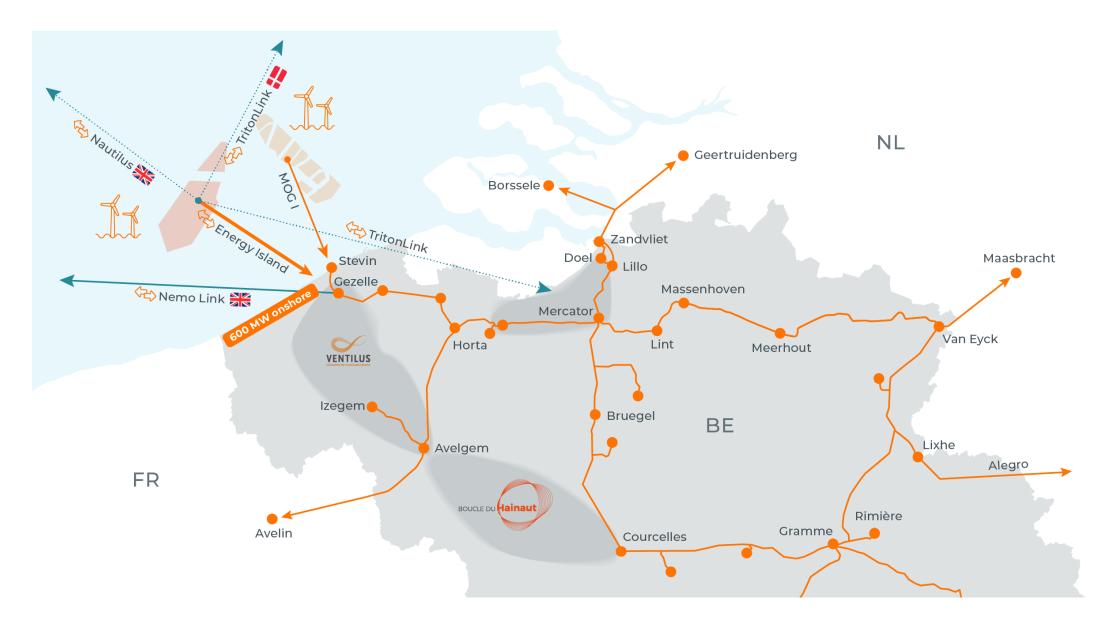
Grid reinforcements



Cross-border interconnection

Versterking en uitbreiding van de interne backbone (380 kV net)





Facing the challenges



Unblocking the supply chain

ELIA GROUP'S RESPONSE

- Identification of categories at risk and associated mitigation
- Securing long-term framework contracts
- Supplier retention management and intensity and explore new partnerships
- Locking in capacity slots

Tackling the recruitment challenge

ELIA GROUP'S RESPONSE

- reviewing the entire chain from attracting, recruiting and onboarding people
- Employer branding
- Upskilling high-potential candidates
- International recruitment
- Improved candidate experience

Reduced permitting processes

ELIA GROUP'S RESPONSE

- Faster permission procedures
- Close collaboration with authorities
- Parallelisation of processes

Solving the funding need

ELIA GROUP'S RESPONSE

- Continuous regulatory discussion
- Improve capex efficiency
- Minimum rating target
- Enlarge shareholder base
- Product diversification:
 - Grants
 - Green financing
 - Convertible bonds
 - ...

CAPACITEITSKAART ELIA

Belangrijkste doelstellingen:

- Proactief ondersteunen van de veranderingen in de Belgische energiemix en de elektrificering van onze samenleving
- Op een transparante manier een algemene indicatie geven over de beschikbare capaciteit bovenop de bestaande én de reeds gereserveerde capaciteit
- De kaart is richtinggevend en gaat uit van een tijdige realisatie van geplande infrastructuurwerken







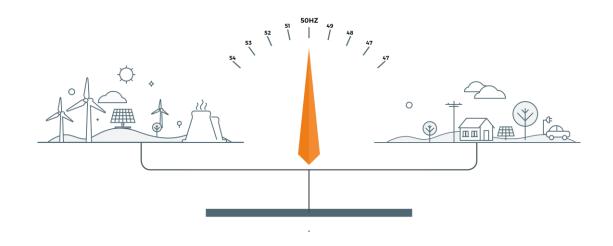
MONITORING THE GENERATION/ CONSUMPTION BALANCE IN REAL TIME, 24 HOURS A DAY

BRPs are in charge of taking required actions to maintain their portfolio in balance



Elia is responsible for the residual imbalance in real-time leading to activation of Balancing Services provided by the BSP



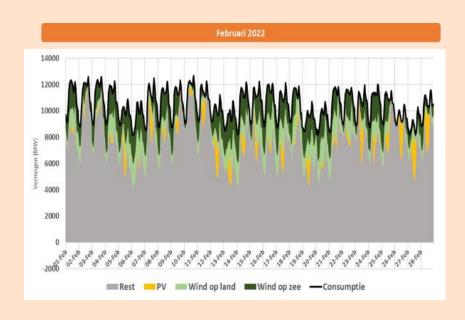


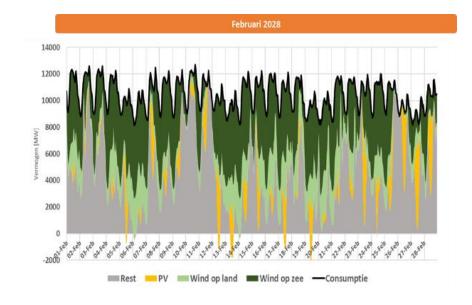
The flexibility is the ability to adjust the consumption or the production of an installation or a process

This may be in response to a price signal, the network frequency, or an activation signal from the network operator

New challenges creating a need to evolve the energy system







From generation following inflexible demand

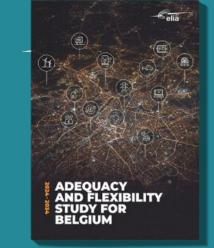


To demand following intermittent generation





Increase in flexibility needs following increased renewable energy sources





Sufficient flexibility means will be available in the system...

... the challenge is to unlock this flexibility (industrial flex, end-user flex such as electric vehicle, heat pumps, home batteries & solar panels,...) and especially downward flexibility

Harnessing end user flexibility is a critical lever to enhance efficiency and affordability of the energy transition



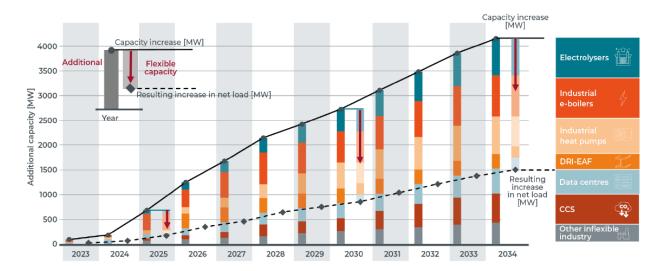
End user perspective



Flexible consumption has the potential to

- To consume electricity when it is abundant
- → Reduces electricity bill

System perspective

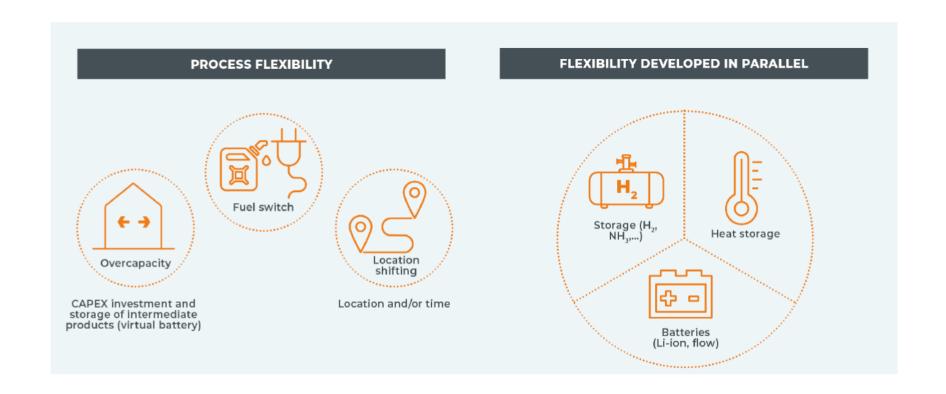


Flexible consumption has the potential to

- Flatten consumption peaks
- Manage RES variability
- Contributes to security of supply
- → Reduces capacity needs



Different types of industrial flexibility and different ways to valorize





These flexible assets can provide flexibility in multiple value streams into the energy market



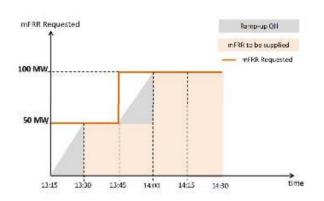
PRICE BASED FLEXIBILITY

VOLUME BASED FLEXIBILITY

DA ID RT







IMPLICIT REACTION TO PRICE SIGNAL

BRP is incentivized by imbalance price to be balanced or to deviate in order to help the system in real time

EXPLICIT BIDDING TO SYSTEM OPERATOR

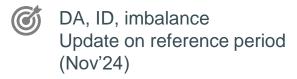
SO sends signal to FSP with a specific required volume of flexibility

What are the different initiatives in order to unlock the identified flexibility means?

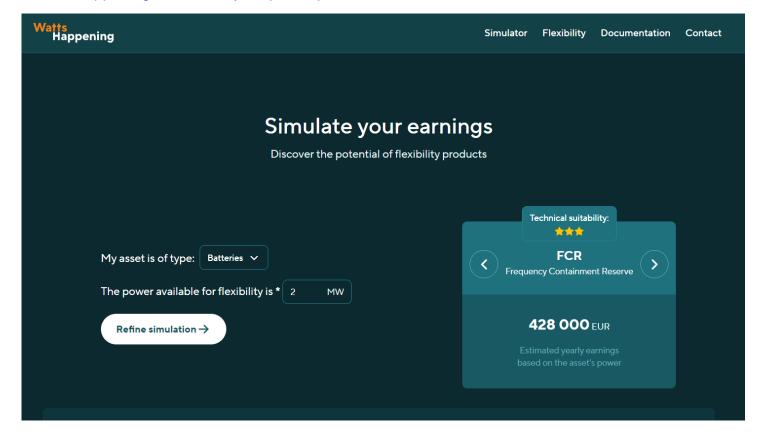


AWARENESS





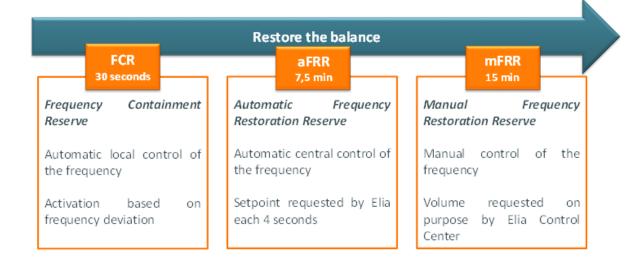
Watts.happening - Monetise your power portfolio



What are the different initiatives in order to unlock the identified flexibility means?







Lowering the technical & operational barriers





export en recordaantal machines staat stil De chemiesector, die in de provincie Antwerpen meer dan 36.000 mensen tewerkstelt,

verkeert in een onrustwekkend diepe crisis. De export is in een jaar tijd met achttien procent gedaald, de omzet met veertien procent en nog nooit stonden zo veel machines

CIM LEGT EERSTE STEEN VAN ULTRAMODERNE GO4ZERO-**FABRIEK IN BELGIË VOOR KOOLSTOFVRIJE CEMENTPRODUCTIE**

GO4ZERO project in België van meer dan 500 miljoen euro om de decarbonisatie van Europa te bevorderen

PERSBERICHTEN (PDF, 0.25 MB)



Dit brengt veel vragen met zich mee voor zowel bedrijven als netbeheerders



Netbeheerders willen klantenvragen anticiperen en het elektriciteitsnetwerk zo goed mogelijk voorbereiden

EnergieGRIP

Netgebruik

NU 1 tot 3 jaar

Regionaal

Regionaal

Reageren

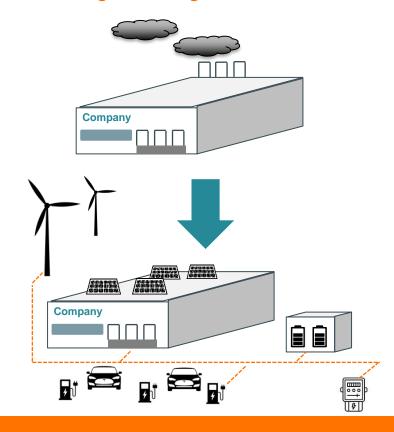
Anticiperen

Fransformeren

Transformeren

Transformeren

Bedrijven willen maatregelen nemen in functie van economisch voordeel en fiscaliteit en/of om EU of lokale doelstellingen te volgen









Samen anticiperen op de energietransitie van de Vlaamse industrie























