
5th NISDUC Conference

The Grid Challenge

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Expert Energy & Climate

Voka vzw

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Voka
paper

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Verschijnt niet in juli en augustus | Afgiftekantoor
Brugge - Erkenningsnummer P708123



Netcongestie: rem op groei, tijd voor actie

Vier sporen naar meer netcapaciteit

Yannick Van den Broeck

voka

Netcongestie: rem op groei, tijd voor actie

voka

**Vlaams
netwerk van
ondernemingen**

Samen ondernemen, samen groeien.

Grid congestion is a problem



Illustratiebeeld © ANP

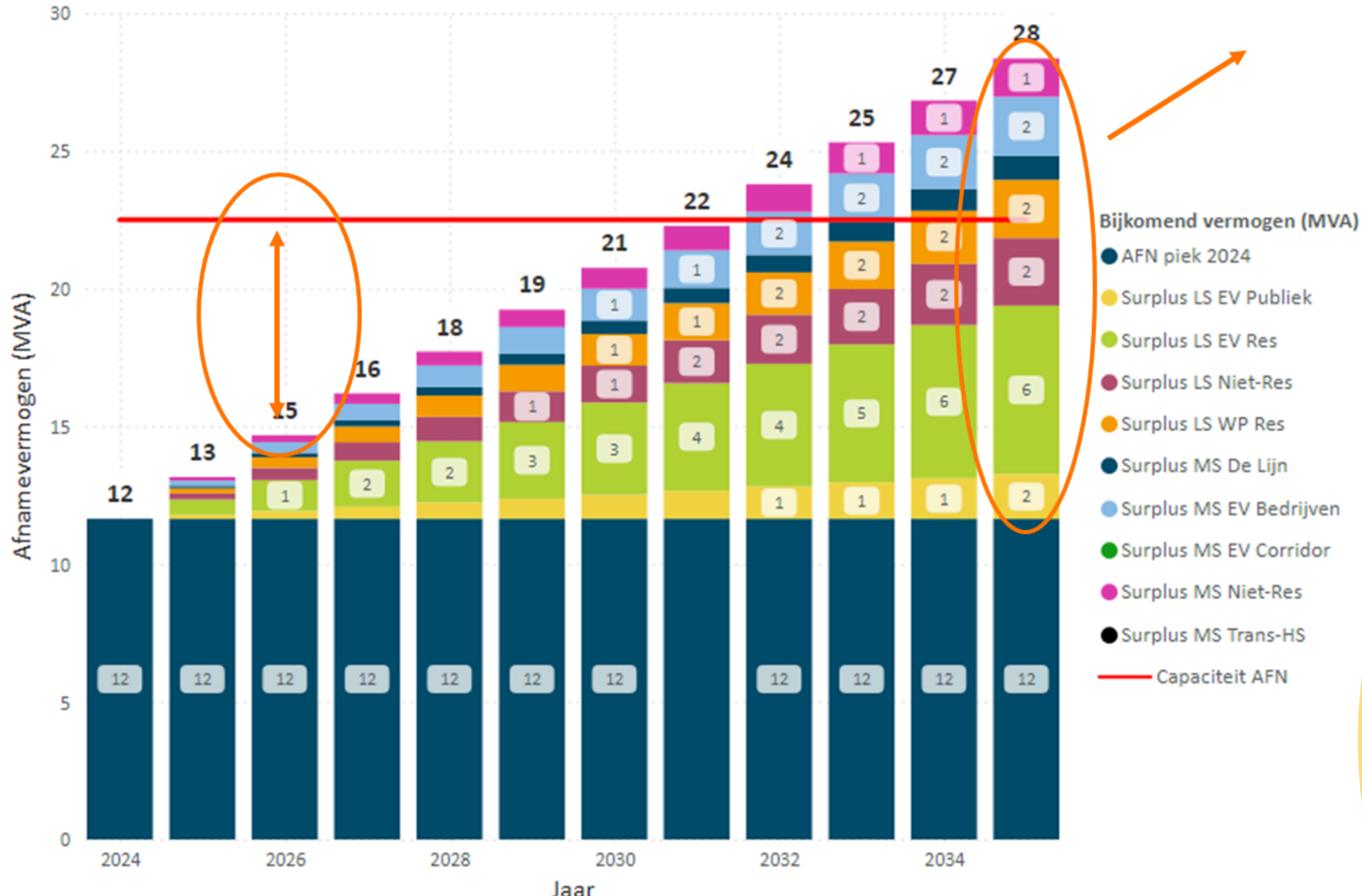
Voka luidt alarmklok over langere files op het stroomnet

Voka waarschuwt voor een dreigende miljardenschade indien er niet dringend wordt opgetreden tegen files op het stroomnet. De Vlaamse werkgeversorganisatie vraagt voorrang voor industrie- en havenzones.

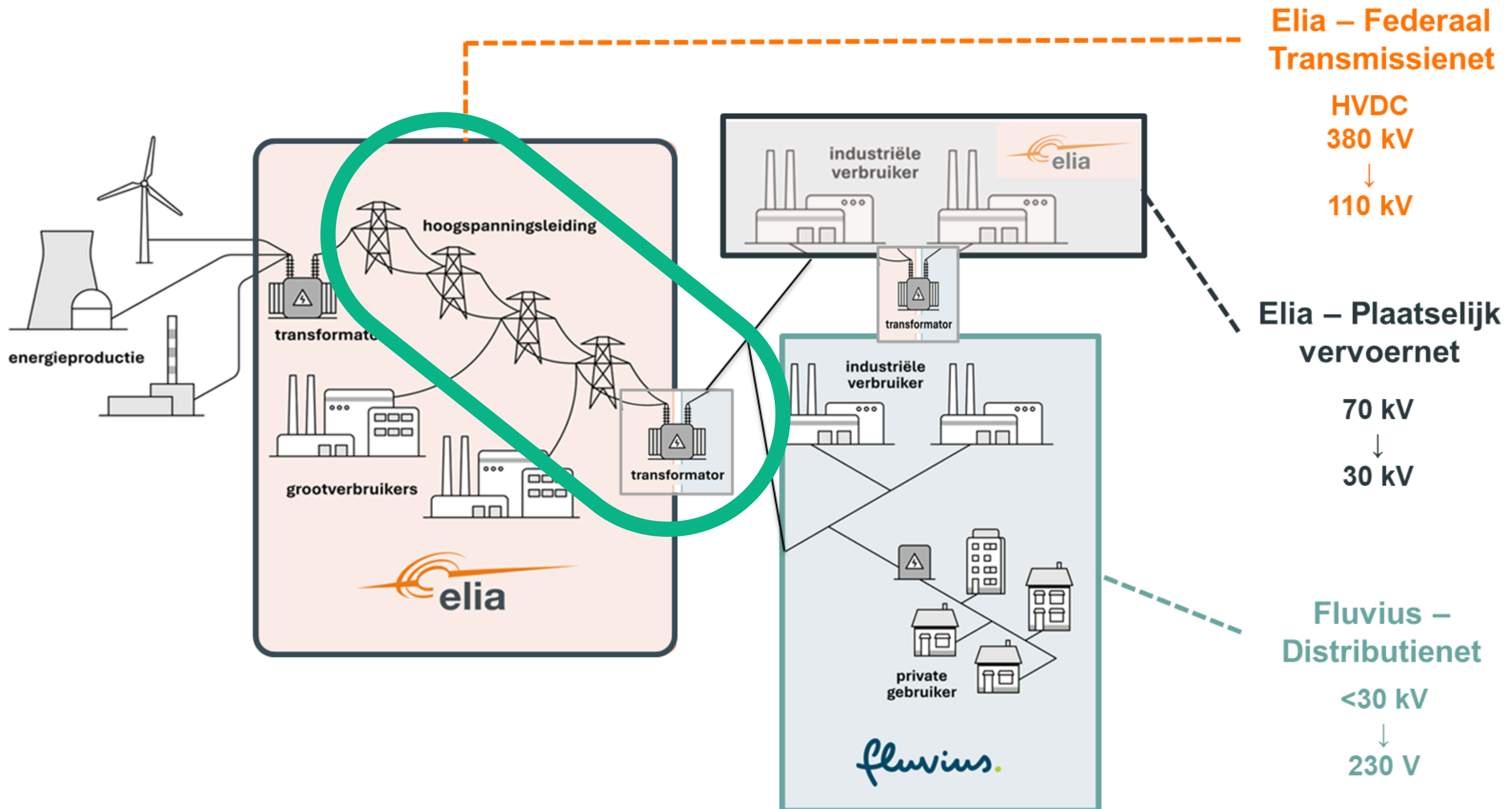
- **1800 projects awaiting connection**
- **Hurdle for transition, while there is a push towards electrification**
- **Missed economic benefits**
- **Adequate capacity is a pull factor for (foreign) investments**

What is grid congestion?

Prognoses Afname (IP 2025)



Where is it situated?



Elia – Federaal Transmissienet

HVDC
380 kV
↓
110 kV

Elia – Plaatselijk vervoernet

70 kV
↓
30 kV

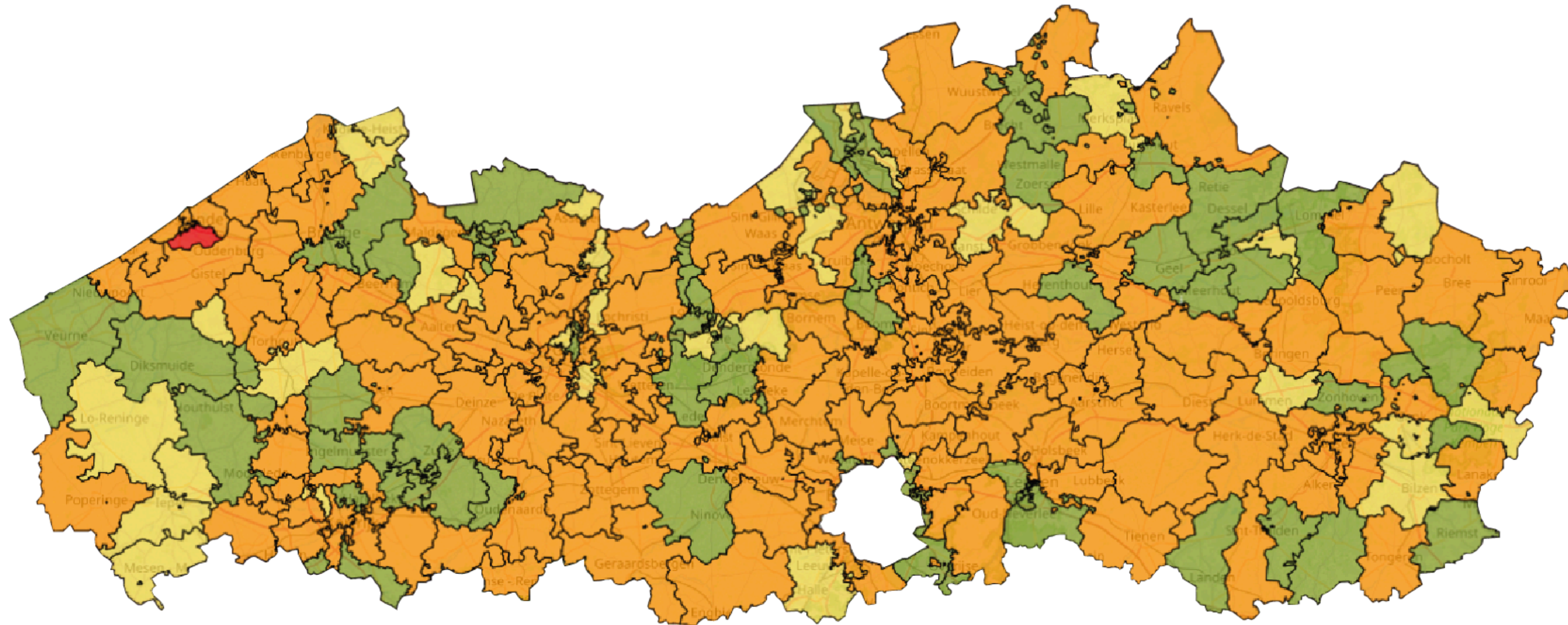
Fluvius – Distributienet

<30 kV
↓
230 V

Technisch	Tarifair
-CREG-	-CREG-
VNR Vlaamse Nutsregulator	-CREG-
VNR Vlaamse Nutsregulator	VNR Vlaamse Nutsregulator



How big is the problem?



Distribution grid: 1,7GW awaiting connection



Aansluiting > 100 kVA mogelijk mits flexibiliteit, reeds overschrijding op piekmoment



Aansluiting > 100 kVA mogelijk mits flexibiliteit

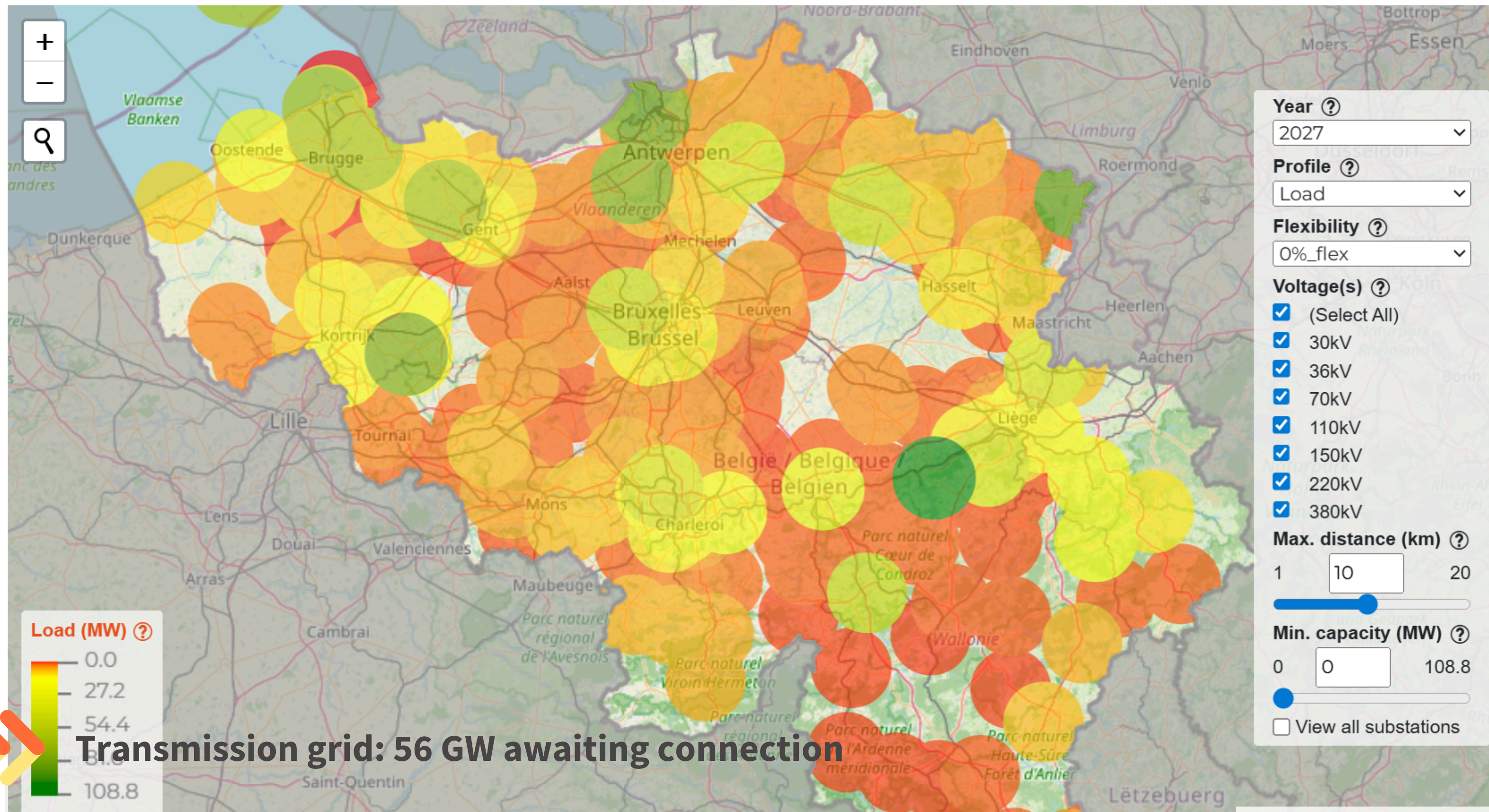


Tot 5 MVA mogelijk op klassieke wijze



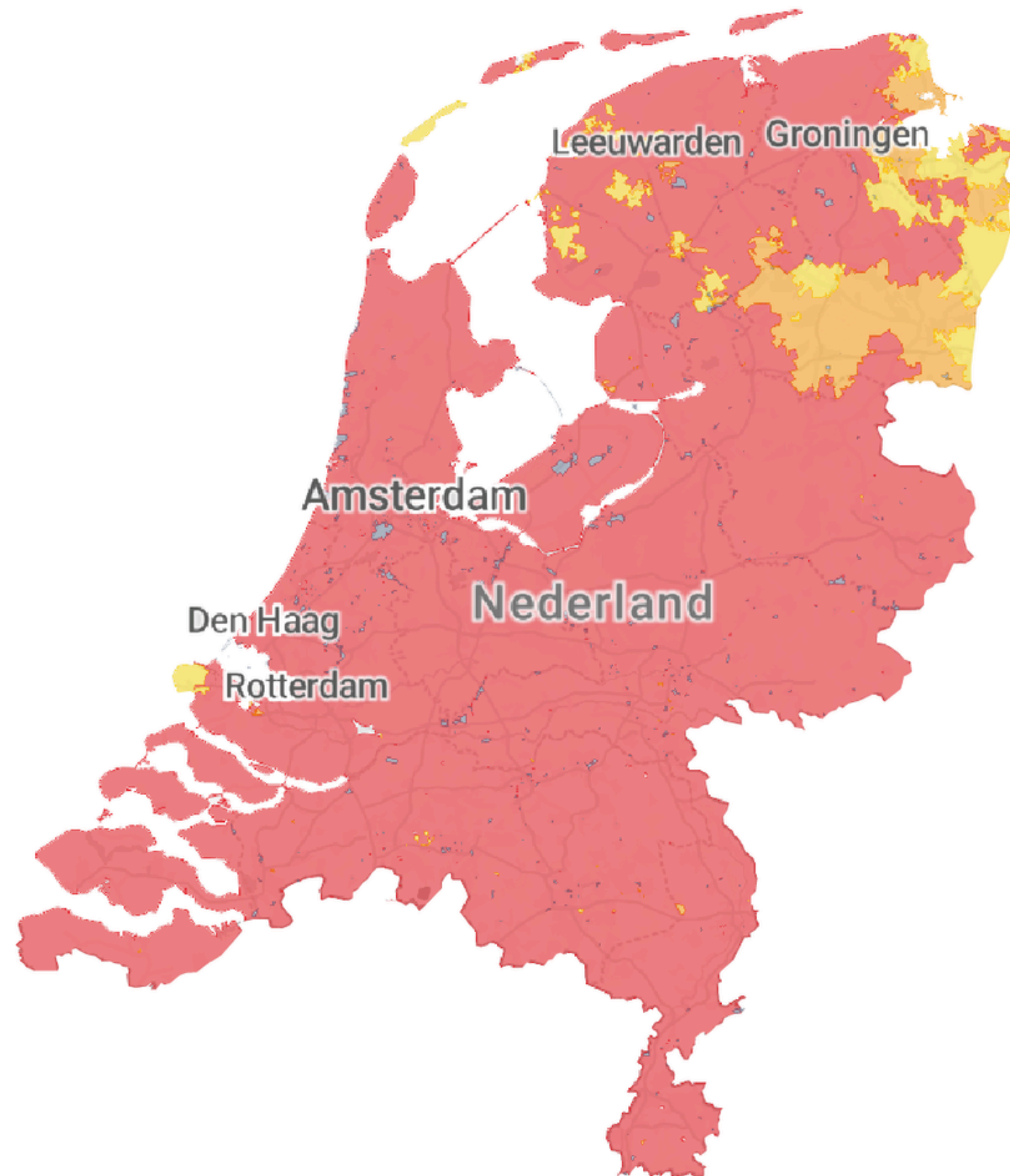
>5 MVA mogelijk op klassieke wijze

How big is the problem?



Transmission grid: 56 GW awaiting connection

Situation in the Netherlands



- An annual €10 to €35 billion in lost economic benefits
- 16,000 companies are on the waiting list
- Waiting times for grid connection up to 10 years

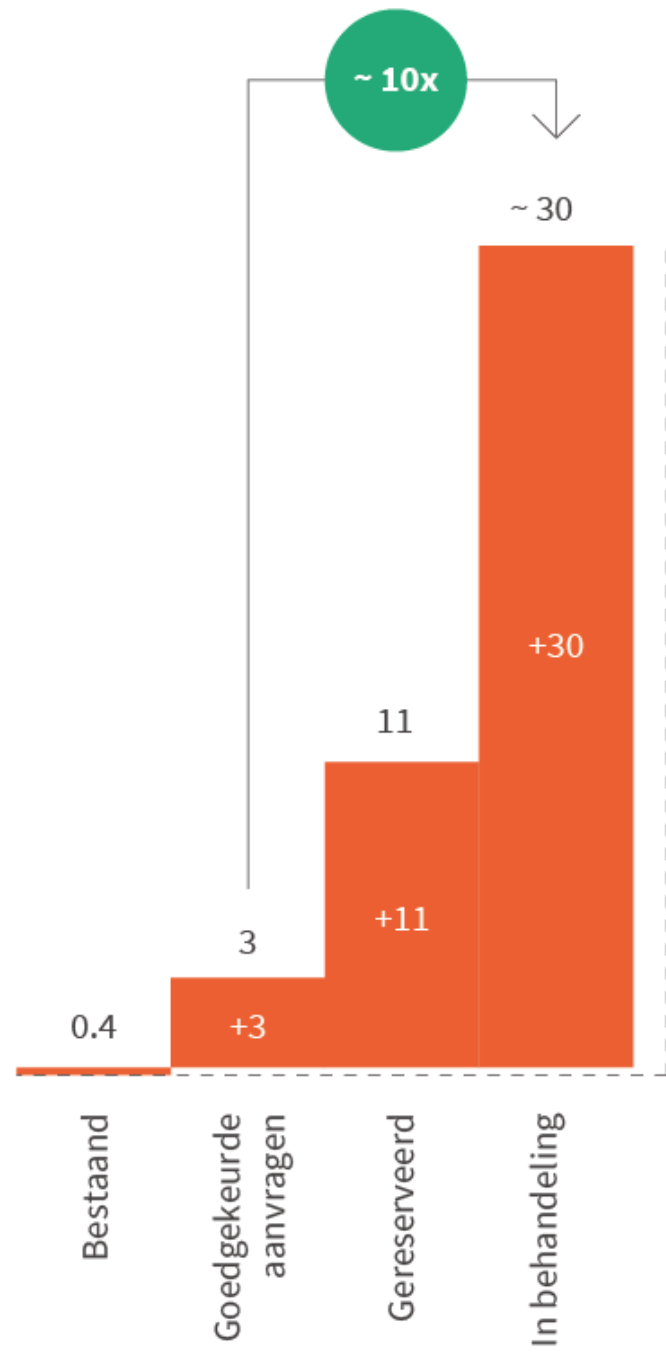


European challenge

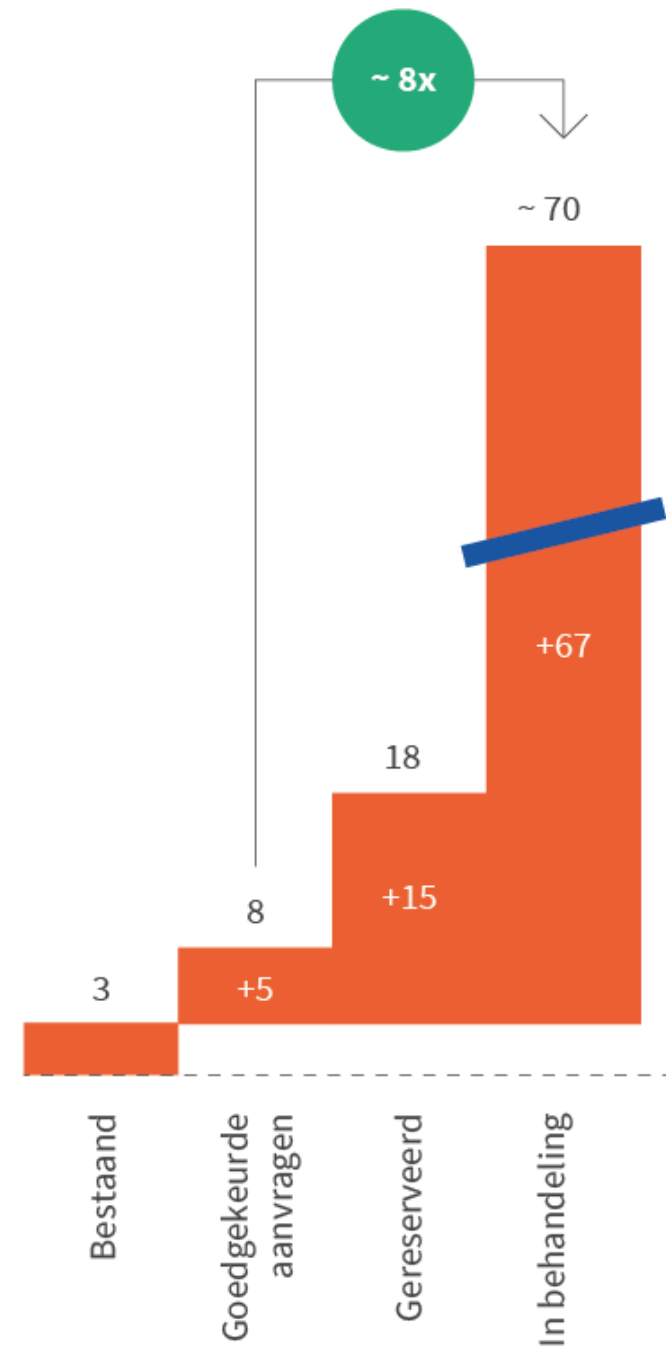
EU Grid Package

Steep increase in requests

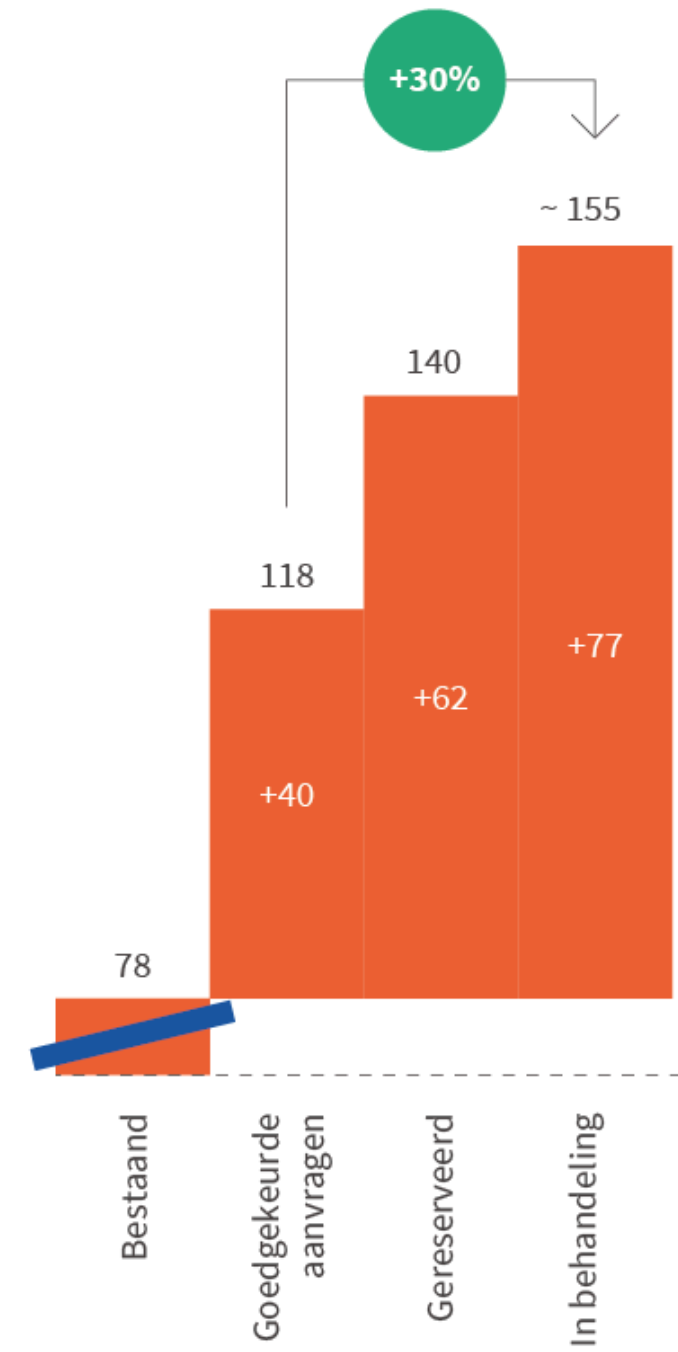
Batterijprojecten



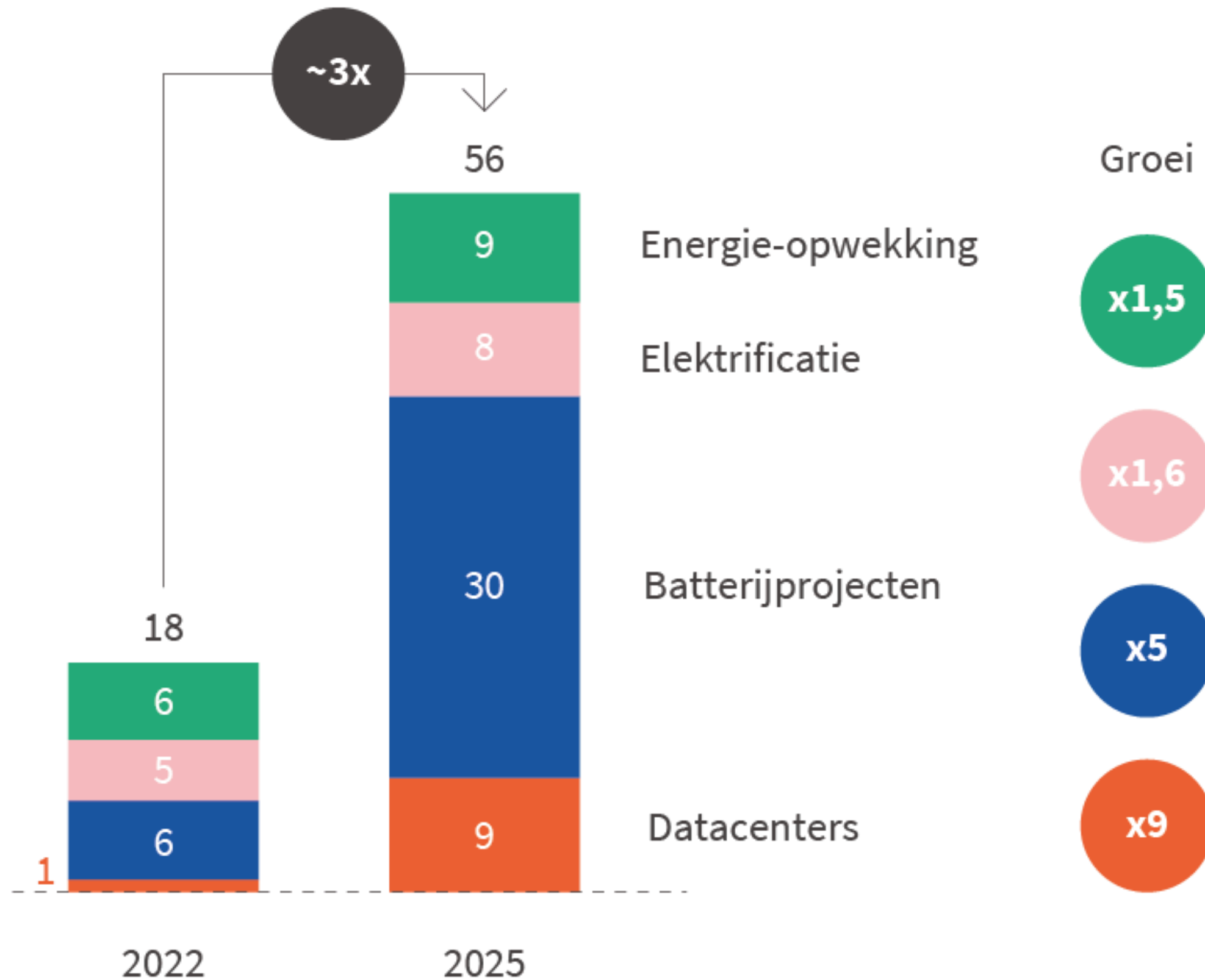
Datacenters



Elektrificatie

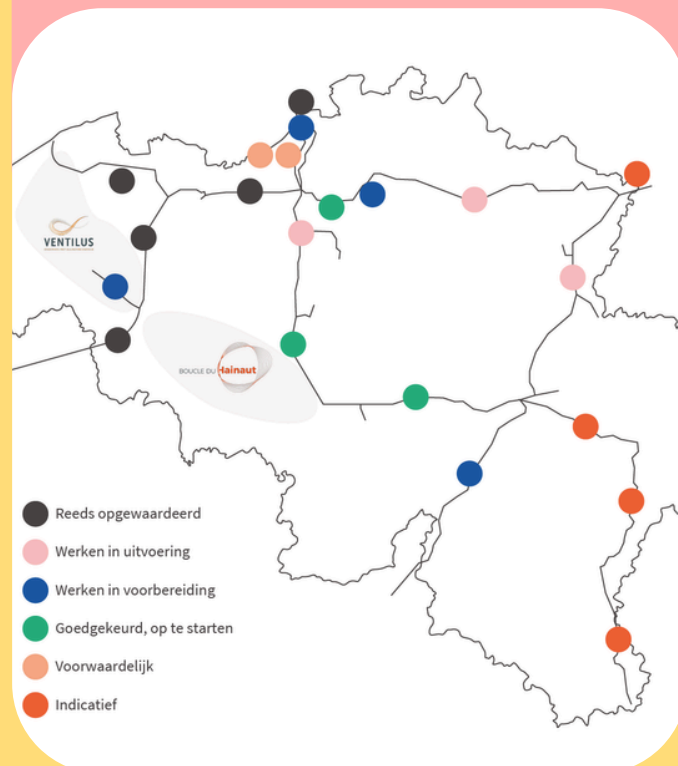


Unseen connection queues



From jam to progress

Investments in the grid and smart use of existing infrastructure



Connection queue management



Prioritisation framework with swimming lanes

- Elektrische voertuigen, warmtepompen en ander laagspanningsverbruik
- Datacenters (hoog- en middenspanning)
- Andere hoog- en middenspanningsafname
- Opslag
- PV (hoog- en middenspanning)
- PV (laagspanning)
- Onshore wind
- Andere opwekking

Flexibility



To do



Governments

- Develop a robust prioritisation framework as quickly as possible
- Focus on medium- and high-voltage grids to align policy ambitions with available grid capacity
- Expand the regulatory frameworks for flexibility



Regulators

- Implement and safeguard a decision-making framework based on the established policy guidelines
- Provide grid operators with tools for queue management
- Align tariffs with the challenges related to grid congestion



Grid operators

- Invest proactively and on a “no-regret” basis
- Rigorously apply queue management guidelines using maturity criteria and priority access to grid connections



End users

- Be as flexible, transparent, and supportive as possible.
- Engage in consultations with grid operators as early as possible on high-impact investment projects, so they can anticipate them in a timely manner.

Principles prioritisation framework

- **Correct focus: a framework for medium- and high-voltage networks**
- **Low voltage should play a facilitating role**

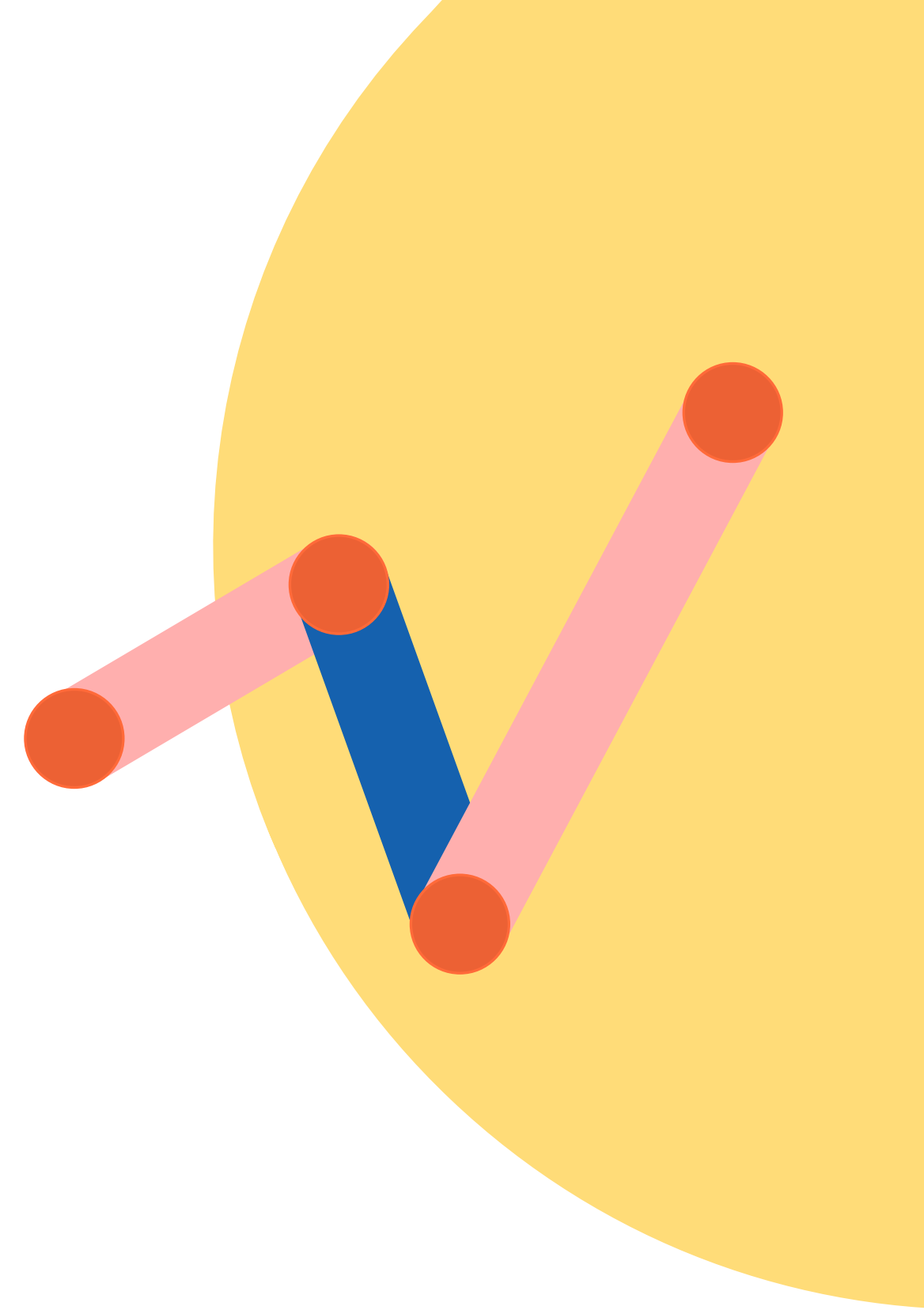
- **Sized “swimming lanes” per category**
- **The largest lane for industry**

- **Priority for industrial electrification in industrial zones and port areas**

- **Battery projects must always be grid-friendly**
- **Data centers: located in non-congested areas and subject to conditions such as on-site energy generation**

Current state of affairs

- 1 “Fall-back Flex” decision
- 2 Prioritisation framework
- 3 Further actions regulator



Questions?

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