

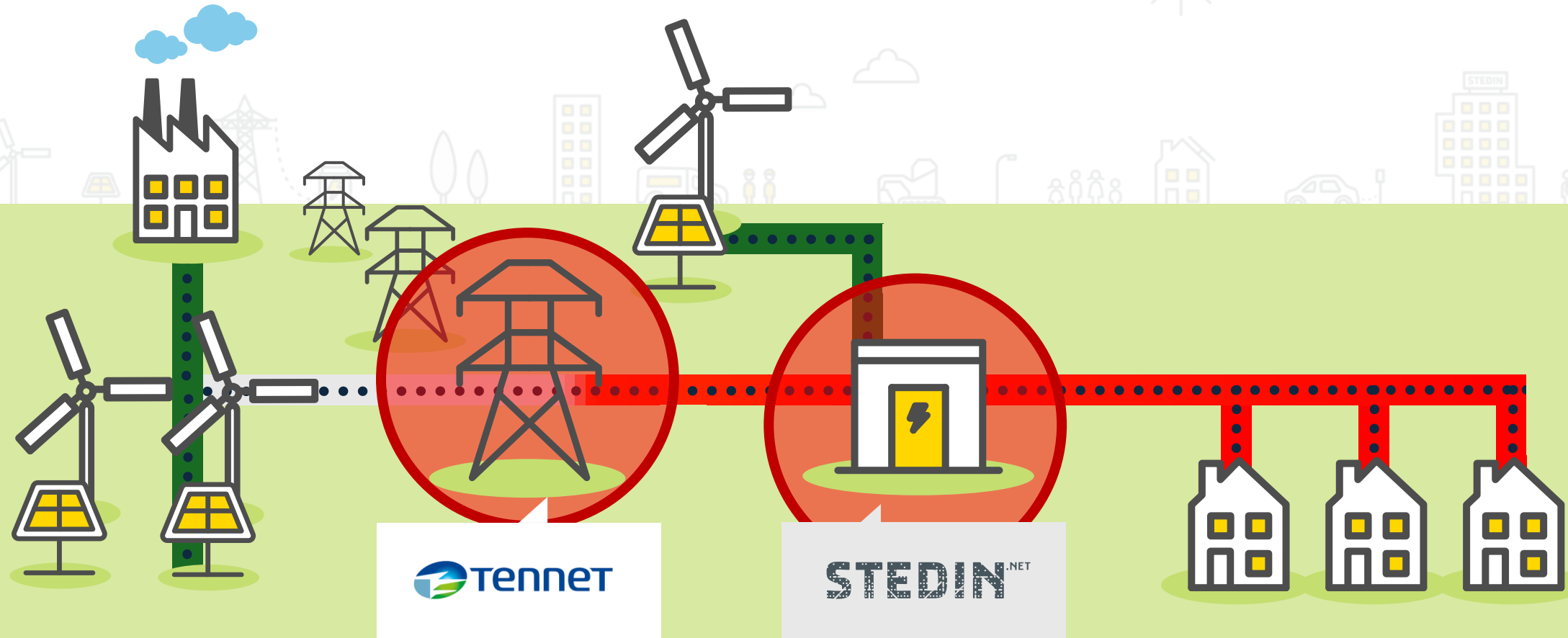
# Network Congestion in the Netherlands

Florentien Benedict  
Expert Regulation

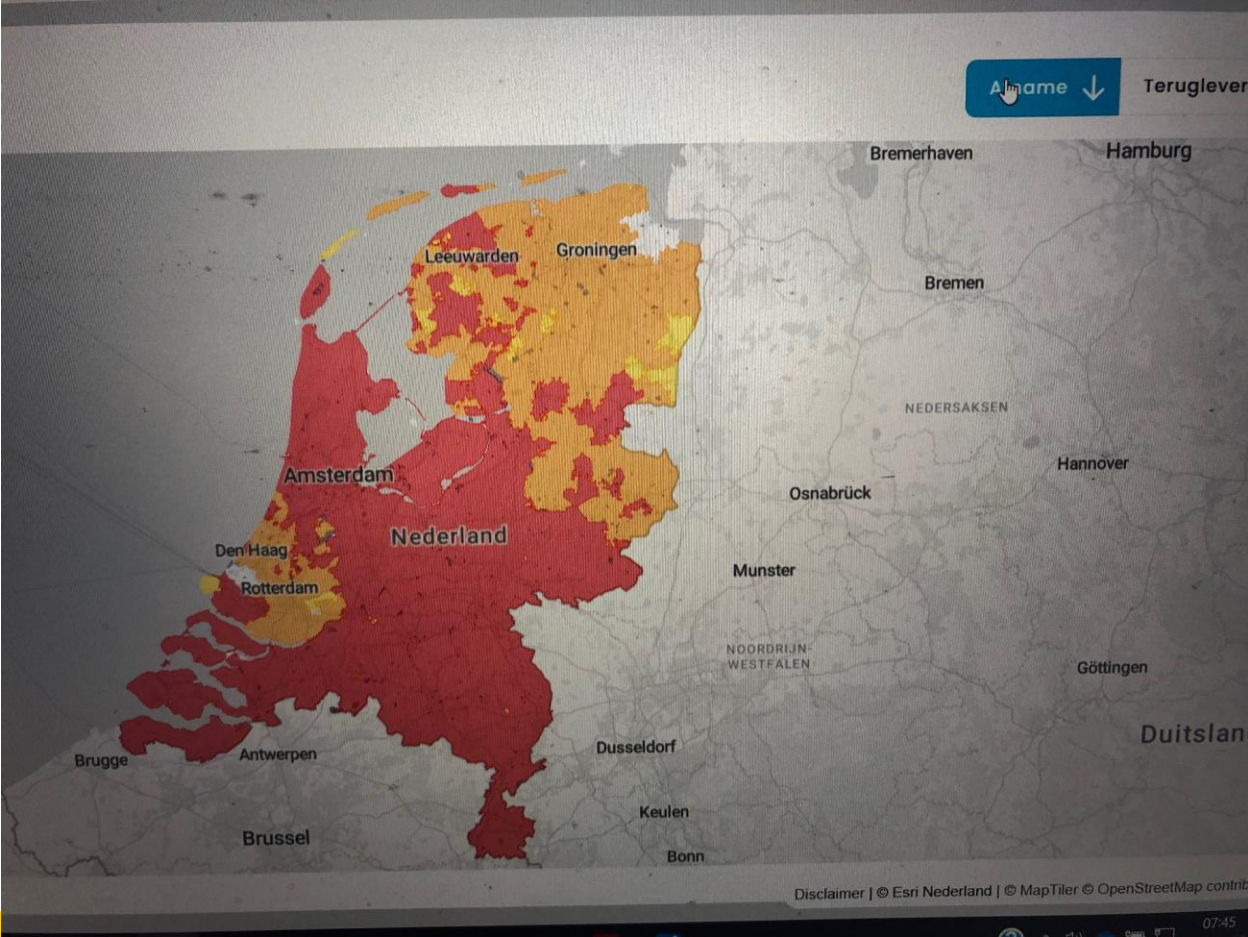
5th March 2025 Athens

# To fulfill climate agreement Paris

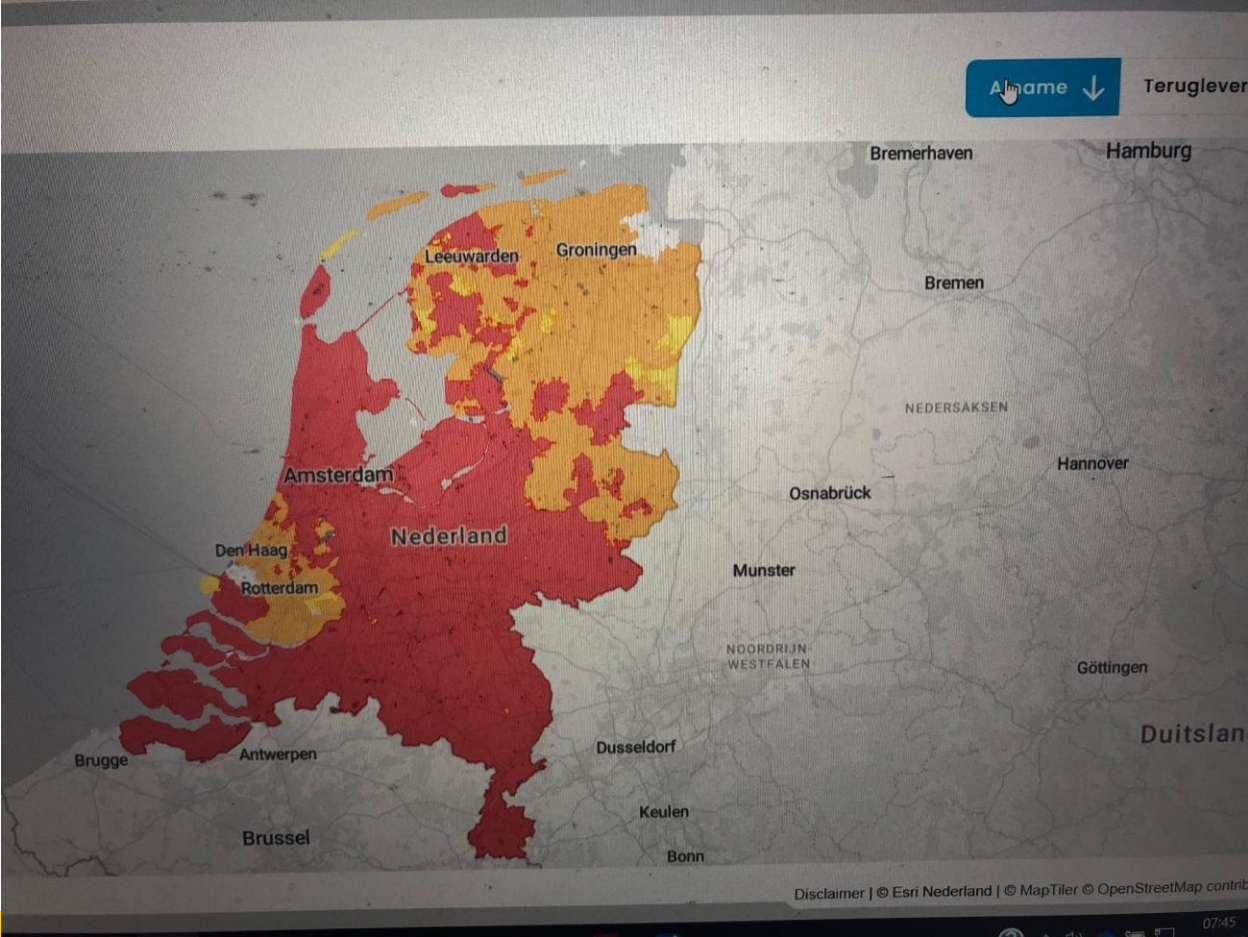
## ELECTRIFICATION IN THE NETHERLANDS IS NEEDED



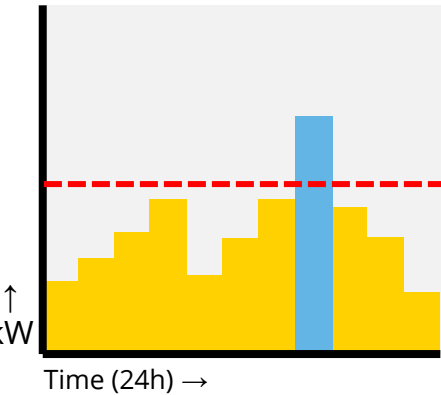
# Consuming active power from the network



# Injecting active power to the network

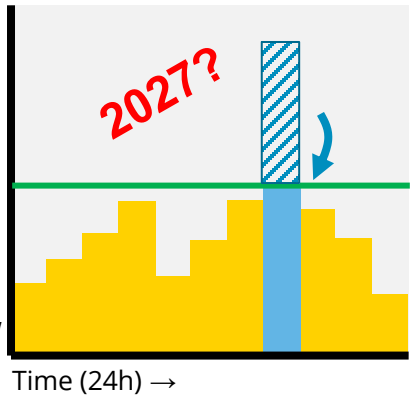


# From congestion management to capacity management

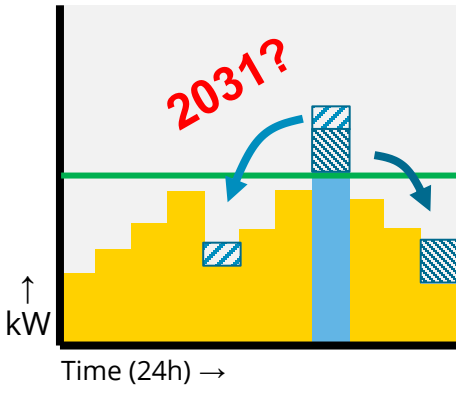


Peak in the households

New capability of the grid  
Original capability of the grid

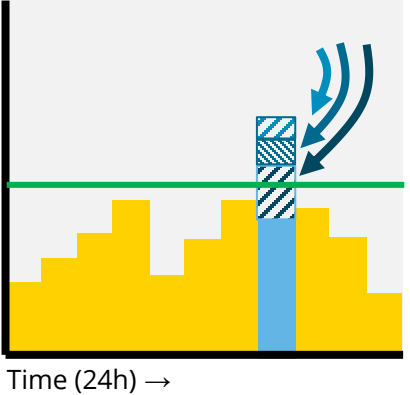


Because of electrification higher



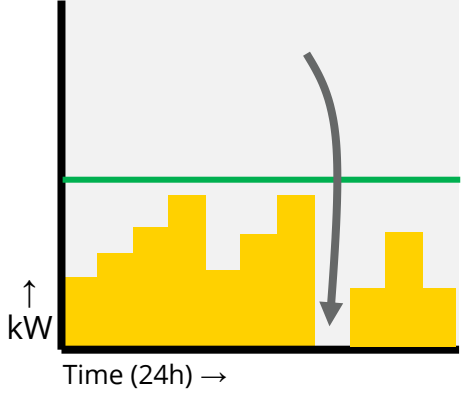
Capacity management

Lower the peak by flexible contracts or system integration



Layered optimization

Real-time capacity management via real time interface (system operator and market based)



Layered optimization

netgens

# congestion management to capacity management



- Investments into the grid, long period, huge amount of costs
- Net Code Congestion management active since two years in the Dutch Network Code.

# congestion management to capacity management

## Network Code Congestion Management:

- Capacity limitation contracts
  - Redispatch contracts
  - Compensation for curtailment
- 
- All based on mutual agreement!