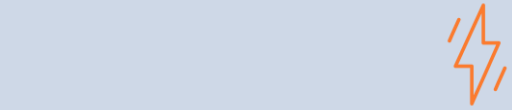
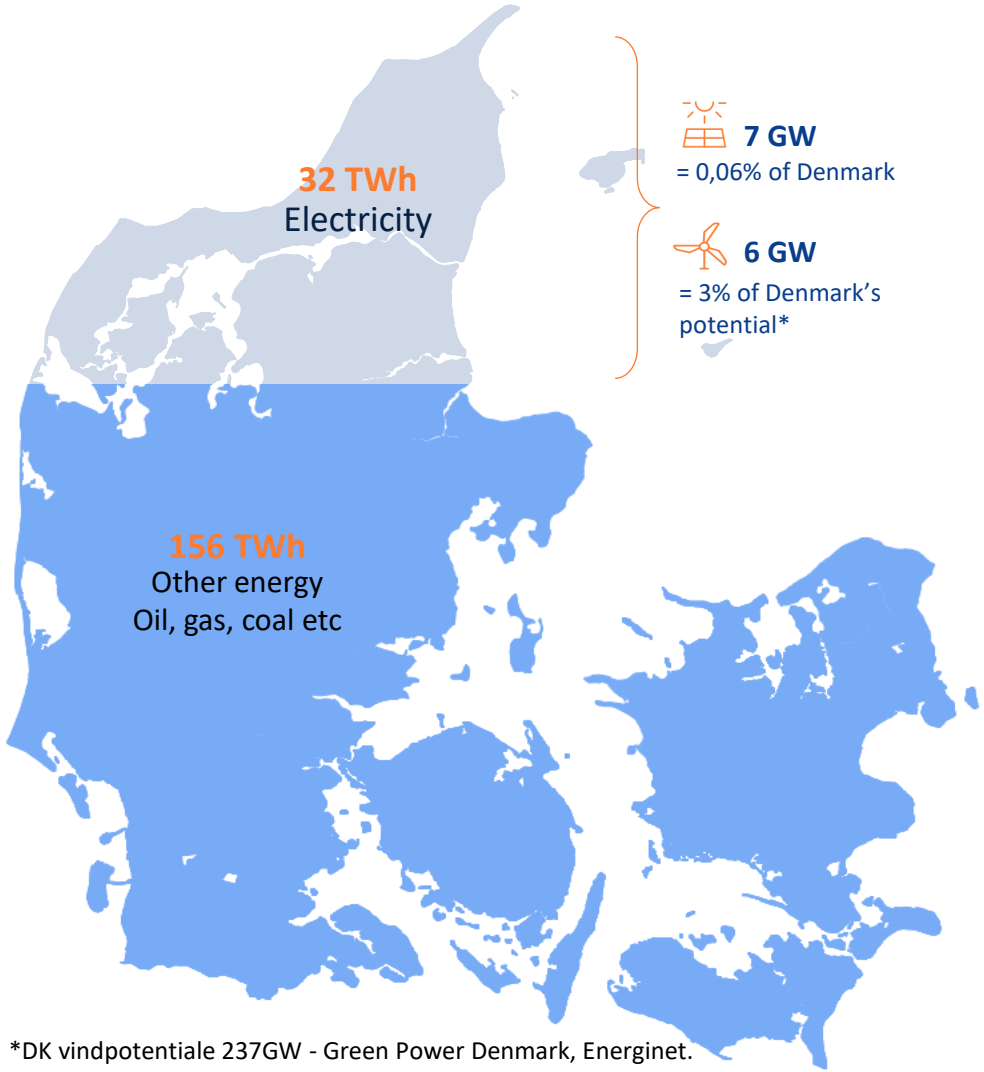


Plexar Energy

POWERING MICROGRID SOLUTIONS

There is enough solar & wind potential to cover Denmark's demand for energy – not just current electricity consumption

Our current energy profile



7 GW
= 0,06% of Denmark

6 GW
= 3% of Denmark's potential*

…If we were to power DK with renewable energy 100%

44 GW
30%
→ **Covering 0,4% with Solar**

37 GW
70%
→ **20% of DK's wind potential**

…If we were to power DK with renewable energy 100%

14% of Denmark consists of cities and infrastructure

0,075% of Denmark consists of highways

= robust, competitive energy independence

… and we fix the currently strained electricity system in the process

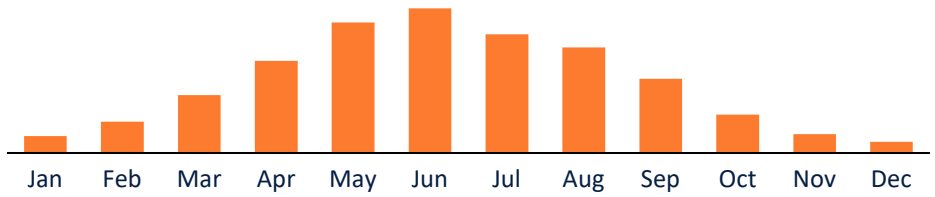
*DK vindpotentiale 237GW - Green Power Denmark, Energinet.

Combined solar and wind provides a relatively stable production

Solar and wind production

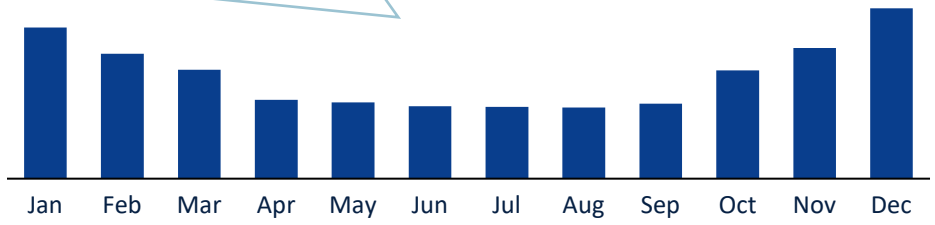
Annual solar PV production profile, Northwestern Europe (MWh)

To produce 30% of Denmark' primary energy consumption with solar PV, a total installed capacity of 43 GW will be needed, equivalent to solar panels installed on 0.4% of the total area of Denmark[1]



Annual wind production profile, Northwestern Europe (MWh)

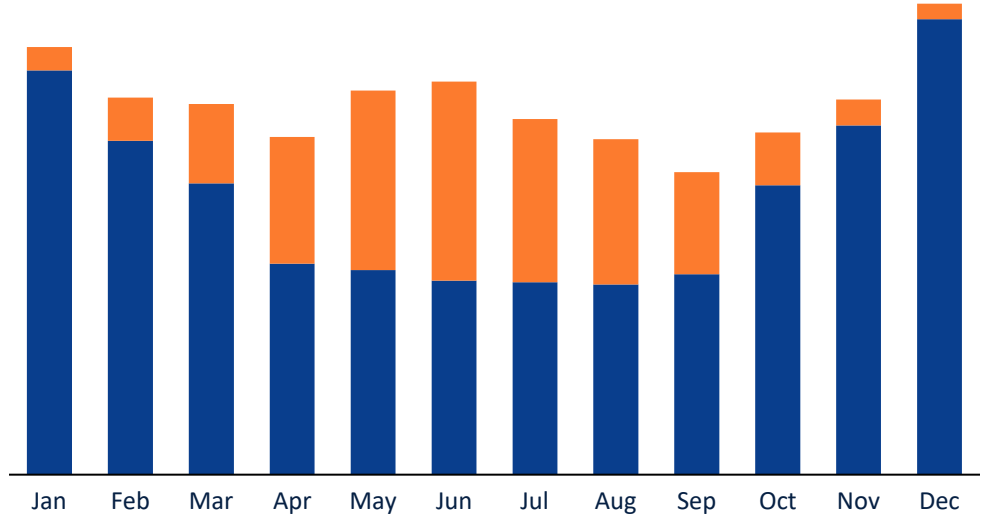
To produce the remaining 70% of energy consumption with offshore wind, a total installed capacity of 37 GW would be needed, only equivalent to 20% of identified wind capacity potential in Denmark[2]



Combined solar and wind production

Annual PV & wind production profile, Northwestern Europe (MWh)

From an annual perspective, wind and solar are very complimentary sources of electricity providing relatively stable power production across the year, however the intermittency become apparent when increasing the granularity to daily level...



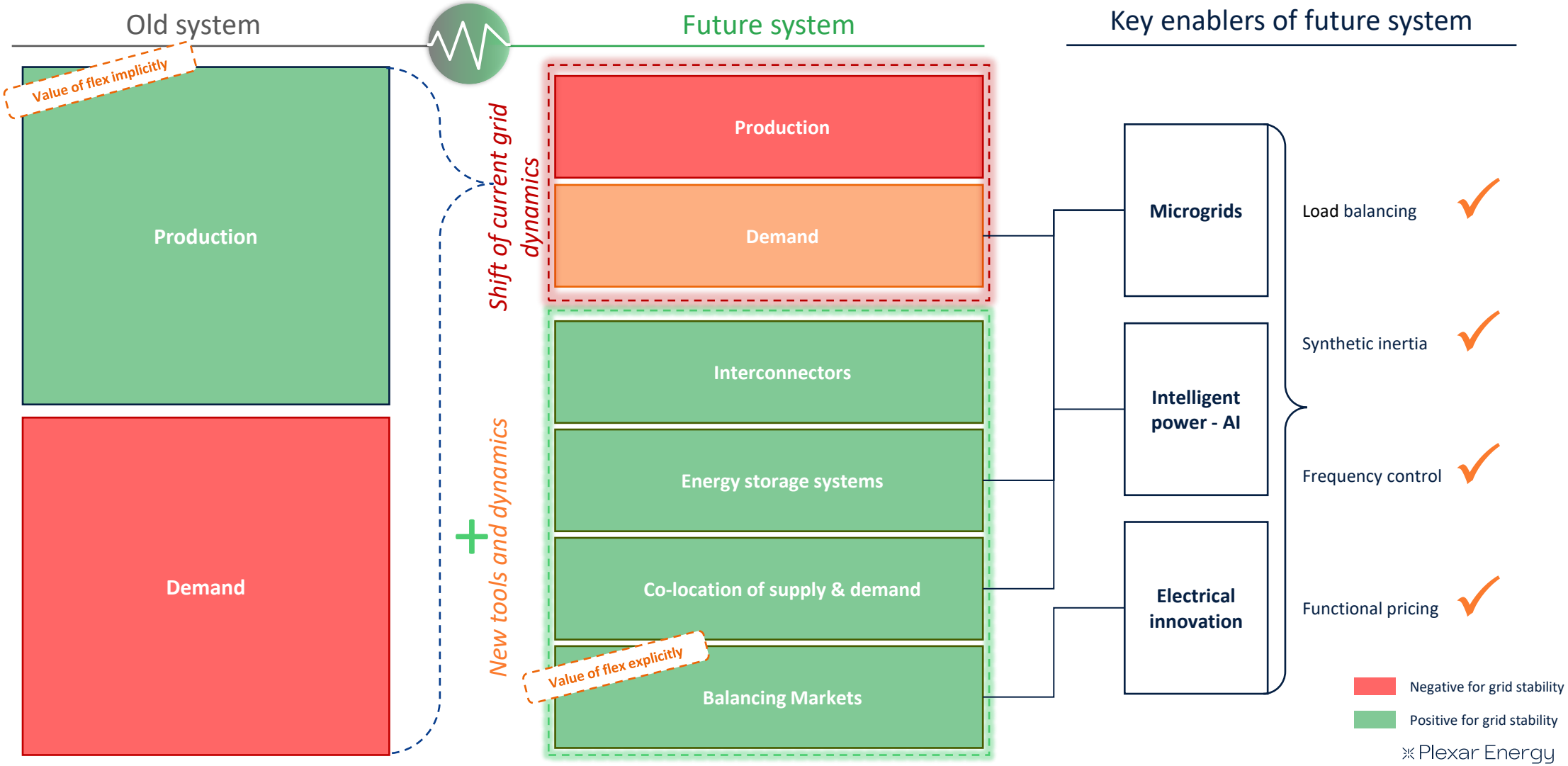
… no need for seasonal storage - but for app. 2 weeks

Notes: 1) Denmark' primary energy consumption being 185 TWh in 2023; 2) Computation has assumed a net capacity factor of solar PV of 13% and installation of 180 watts per m^2 ; 3) Computation has assumed a capacity factor of 55% for offshore wind

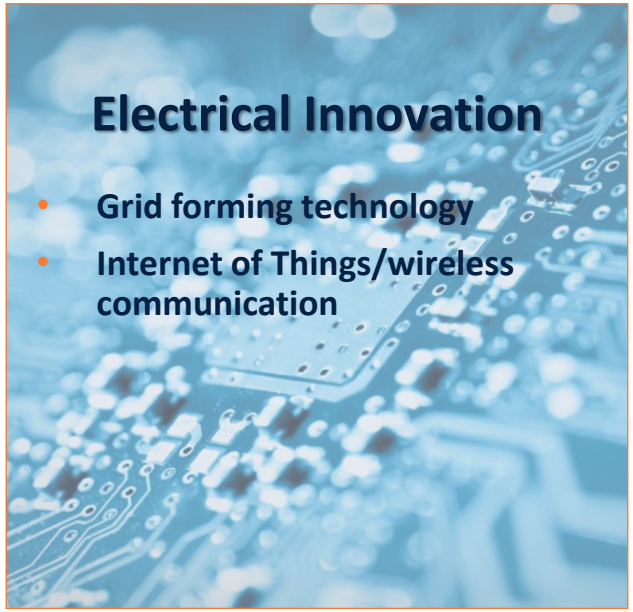
Sources: Energistyrelsen, Green Power Denmark, Energinet

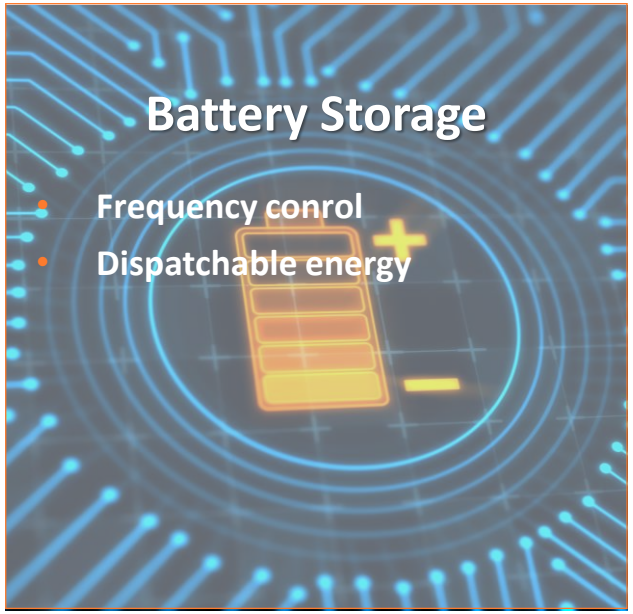
Future energy – aestically integrated in urban and suburban landscapes

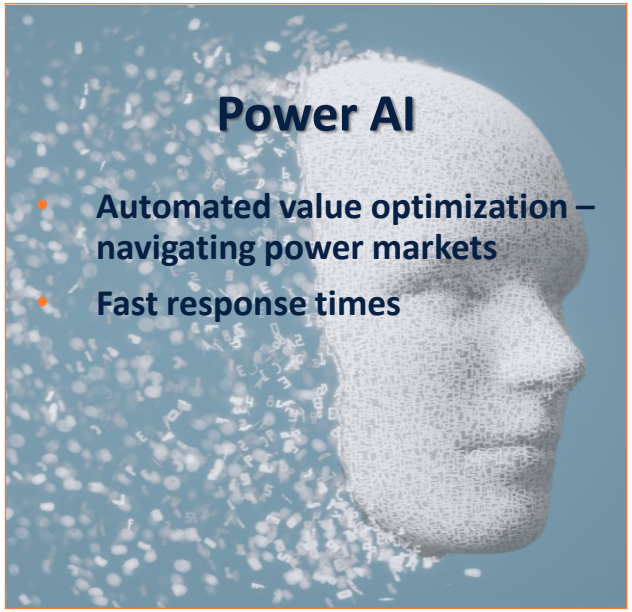
Fundamental changes are needed for a robust electricity grid - Microgrids are part of the solution



Helping industries take advantage of new technologies







POWERING MICROGRID SOLUTIONS

End-to-end solution

POWERING YOUR OPERATIONS

CIP
Copenhagen Infrastructure Partners

Financing

Design & engineering

Permitting & development

Installation

Operation & maintenance

Optimization

Our microgrid offering: End-to-end microgrid development with financing, from design to operation & optimization

Industrialized solution + Professional construction and operation

=

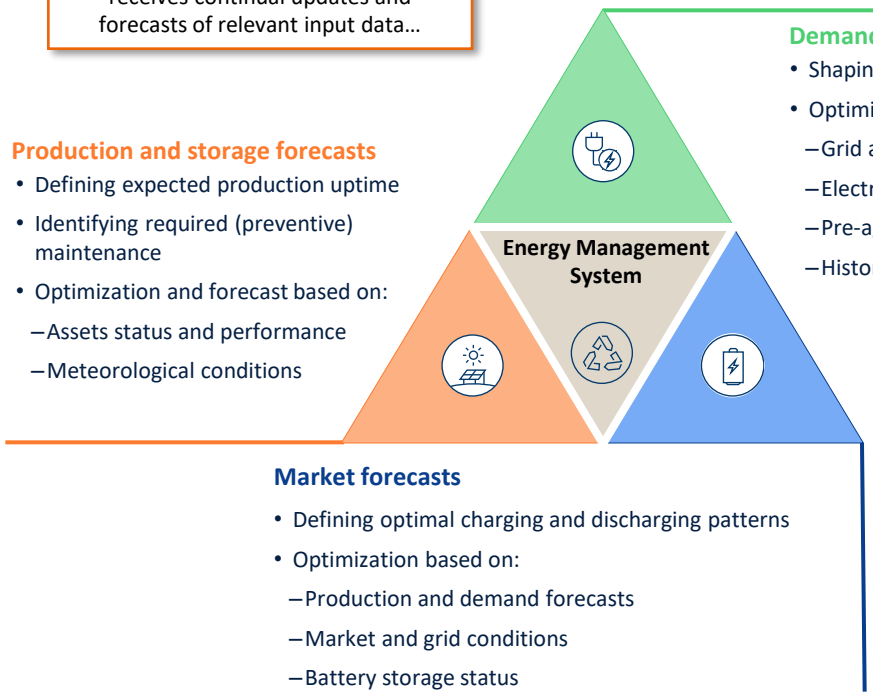
✓ **Access to institutional capital**

✓ **Fully financed solution**

Intelligent power

ENERGY MANAGEMENT SYSTEM

The Energy Management System receives continual updates and forecasts of relevant input data…



Production and storage forecasts

- Defining expected production uptime
- Identifying required (preventive) maintenance
- Optimization and forecast based on:
  - –Assets status and performance
  - –Meteorological conditions

Demand forecasts

- Shaping optimal load demand patterns
- Optimization and forecast based on:
  - –Grid and renewables availability
  - –Electricity supply and market price
  - –Pre-agreed parameters with customers
  - –Historical patterns

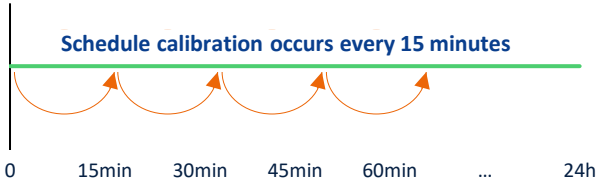
Market forecasts

- Defining optimal charging and discharging patterns
- Optimization based on:
  - –Production and demand forecasts
  - –Market and grid conditions
  - –Battery storage status

Energy Management System:

The EMS reviews and assess input data every 15 minutes, ensuring that the 24-hour optimization schedule reflects most up-to-date information

Illustration of EMS scheduling:



… ensuring optimal energy dispatch adapting to all relevant conditions

Microgrids reduce potential imbalance risks by combining production, storage and demand

Industries getting a better connection

Enabled electrification

Microgrids provide flexibility and accelerated electrification

More electricity with unchanged grid connection

Power AI - Intelligence

From price taker to optimizer

Software automated price optimization and forecasting

Power security

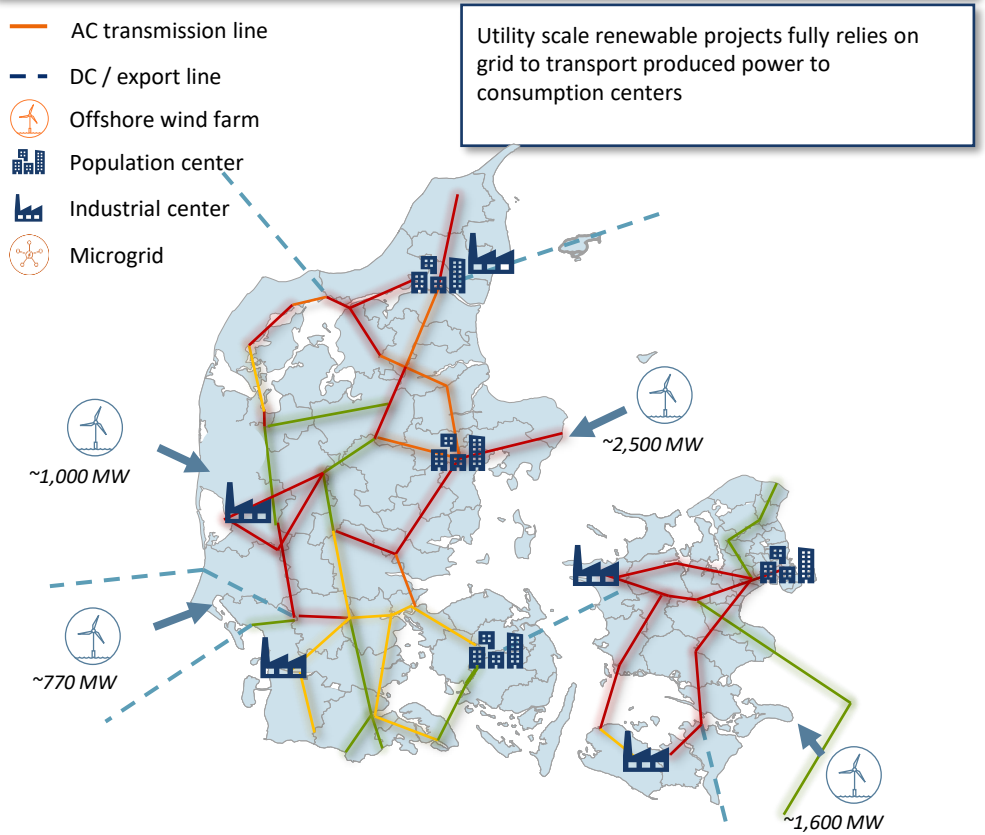
Microgrids can keep operating in case of grid disruption or failure

Up to 4-5 hours of operation

Intelligent microgrids can alleviate bottlenecks

Strong reliance on decentralized utility scale production assets creates bottlenecks in the grid…

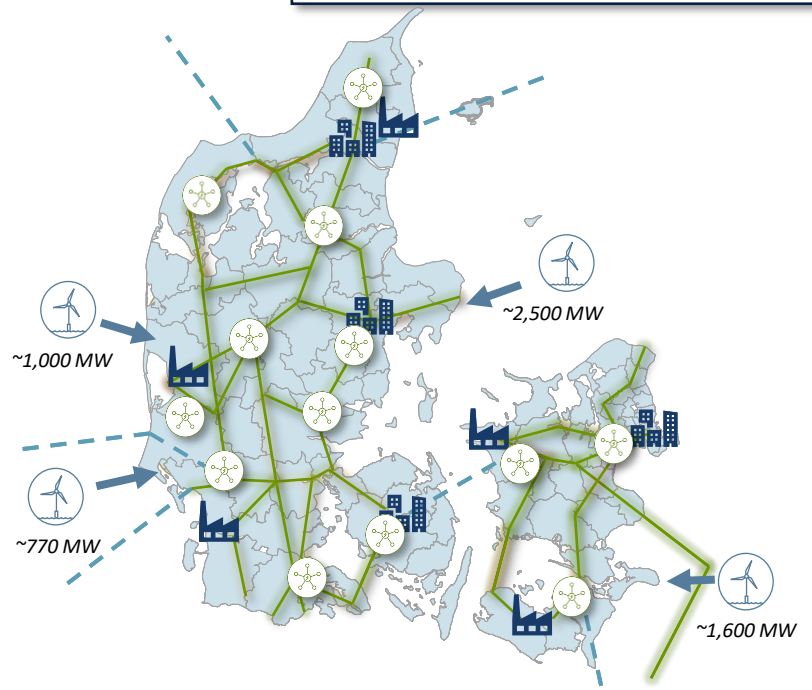
Utility scale renewable projects fully relies on grid to transport produced power to consumption centers



TSO interacts with a few large generators

… while a system with microgrids incentivizes co-location of production and demand reducing need for transport grid transport

Embedding microgrids in the electrical system will alleviate pressure on grid infrastructure as grid is required for less transportation of electrons between producers and consumers



TSO/(DSO) procures services from potentially hundreds of small generators and balancing units

High overload Medium overload Low overload No overload

Source: Energinet