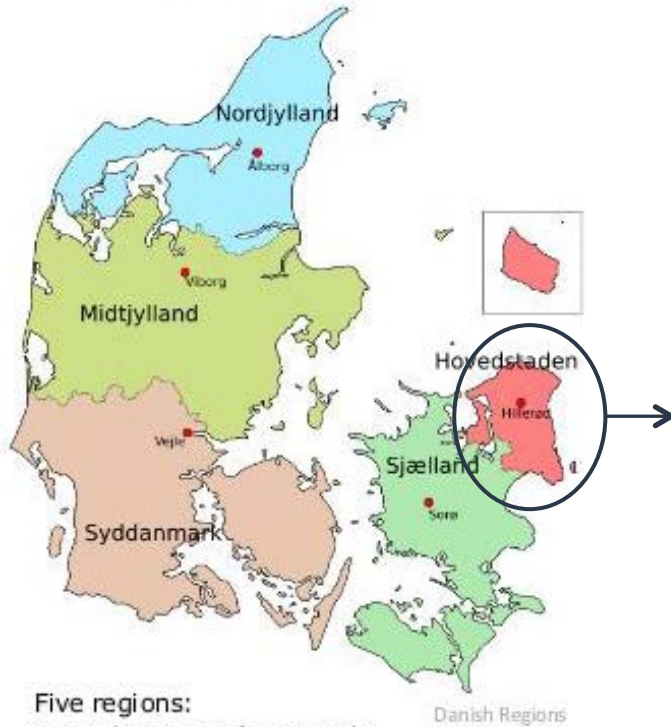


HCWH webinar

Fossil free energy at hospitals in the Capital Region of Denmark

Ole Gerner Jacobsen / ogj@regionh.dk
Center for Facility Management

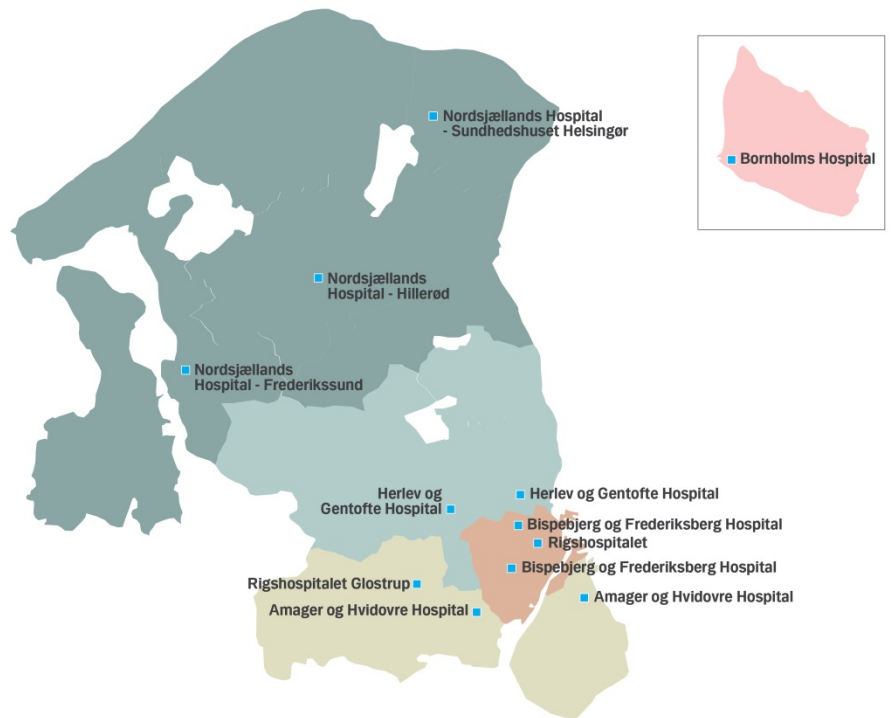
Regional Denmark



Five regions:
Capital Region of Denmark
Region Zealand
Region Southern Denmark
Central Denmark Region
North Denmark Region

98 municipalities

7 Hospitals in the Capital Region of Denmark on 11 locations



The Capital Region of Denmark

VISION: A green and innovative metropolis with growth and high quality of life - with cutting-edge green solutions and a health service that meets the very best international standard.



New leadership in 2013 / 2014

A joint cooperative approach to green transition at hospitals

Green Operation and Development

Three joint corporate thematic plans

- Energy, waste resources and transport

Supporting themes

- Green procurement
- Communication
- Green growth and innovation

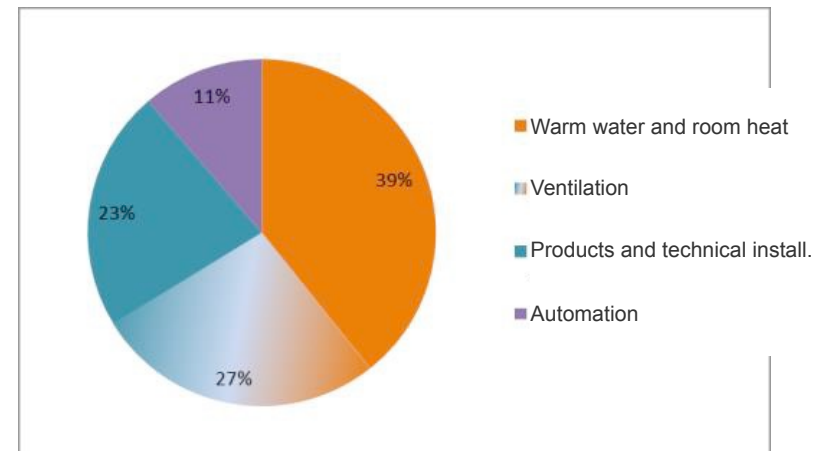
Governance

Management system

Energy plan 2025 – background

- **Annual energy expenditure app. 70 mill. EUR**
- **Potential for further energy efficiency**
 - Ventilation, lightning, products/ equipment, building automation/ CTS/smart building
- **To much lesser extend local conversion to renewable energy** (is happening centralized).

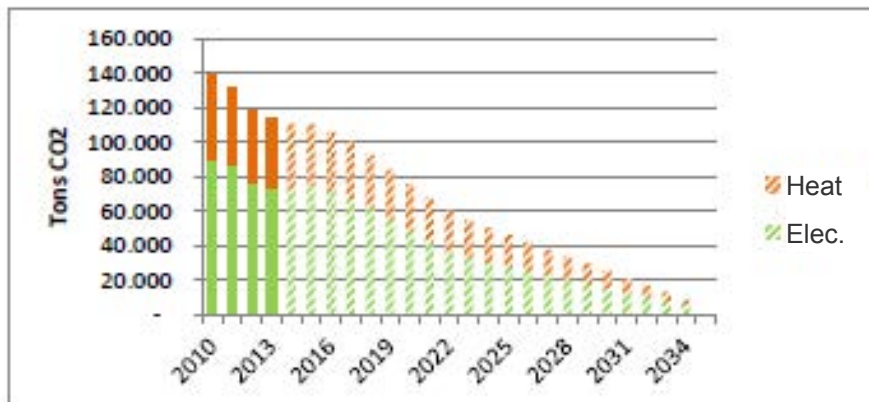
Energy consumption in main groups



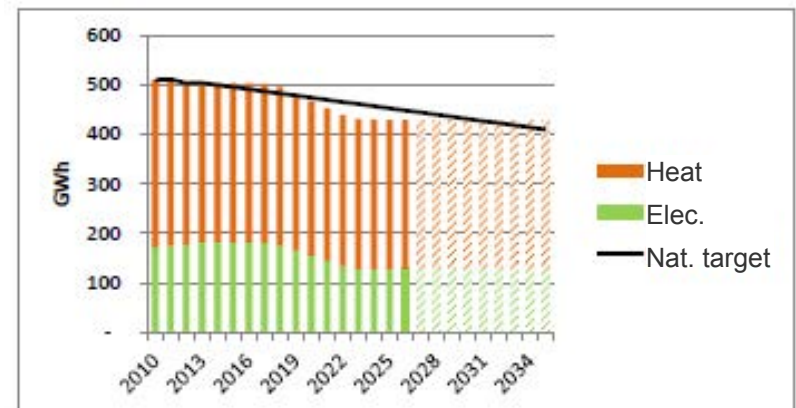
Energy plan 2025 – targets

- 60 % CO₂-reduction i 2025 (compared to 2013)
- 100 % RE in 2035
- 16-17 % reduction from improved energy efficiency at hospitals – rest from public supply

Carbon emission



Energy consumption



Energy plan 2025 – main activities

ESCO 3.0

- New concept for the realization of energy efficiency measures
- Expected investment of up to DKK 1 billion (Energy plan)
- Funded through Municipal leasing and EU programs (DKK 24 million)
- Expected completion: before 2025
- Approximately 1.2 mill. m² included

Increased efforts for energy efficient procurement

Green growth and innovation

The Capital Region of Denmark



ESCO 3.0

Normal ESCO

- Screening
- Design
- Implementation

No competition

- Financing
- Baseline
- Warranty

Special

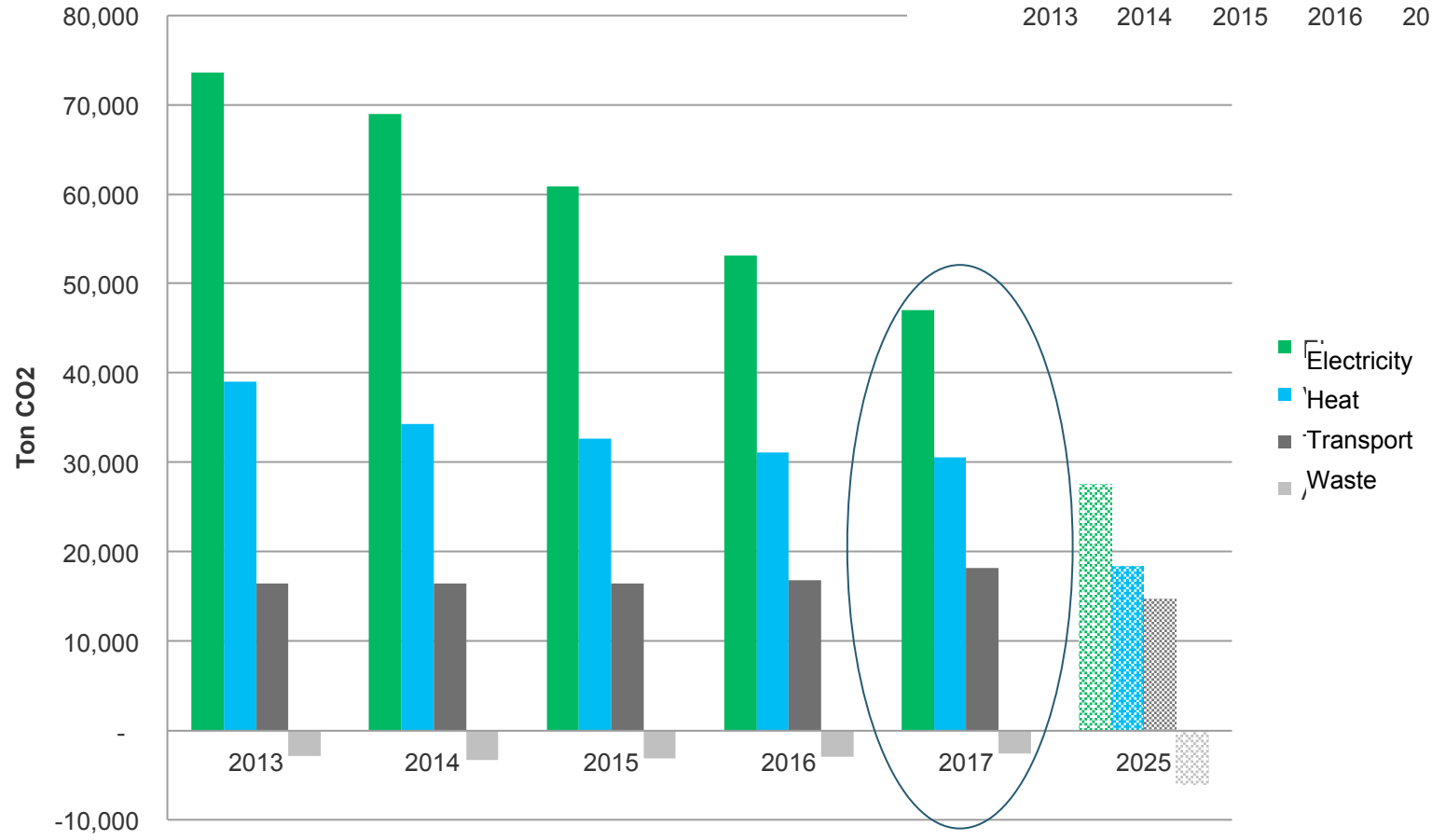
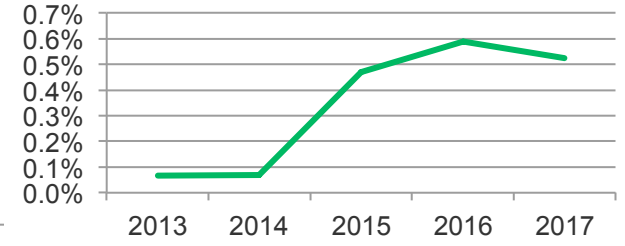
- Hospitals constantly changing
- Running 24-7
- Size +1 mio. m₂
- Speed

ESCO 3.0

- Screening
- Analysis
- Design
-
- Tender (competition)
-
- Implementation
 - Project 1
 - Project 2
 - Project 3

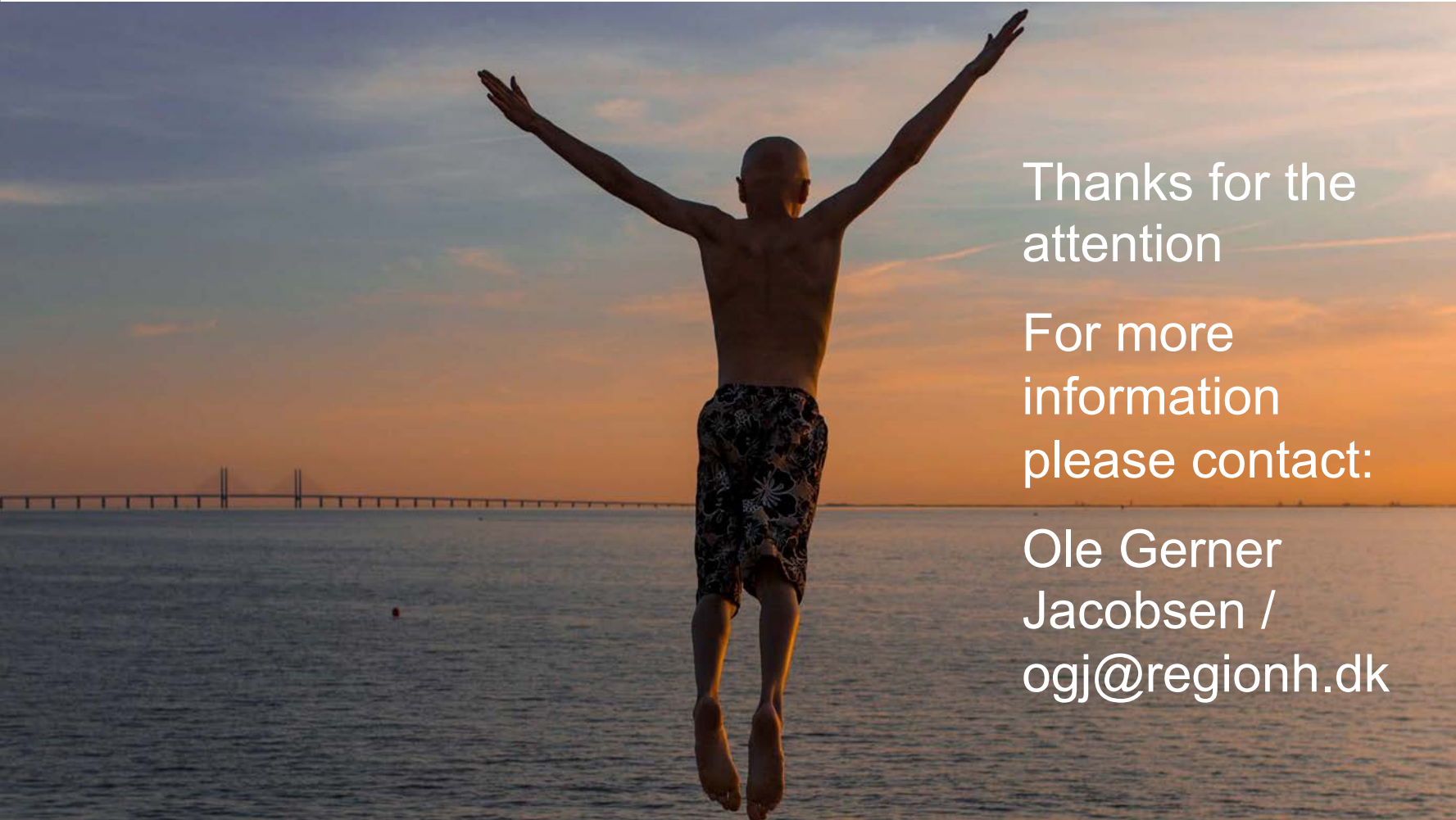
Commissioning
(instead of warranty)

How is it actually going?



 **SUSTAINABLE DEVELOPMENT GOALS**





Thanks for the
attention

For more
information
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