



CleanMed
Creating Healing Environments

Europe
2018

Achieving 100% RE across campus at 2024

- Speaker 1 & presentation title
- Speaker 2 & presentation title
- Els Sonnemans Achieving 100% RE across campus

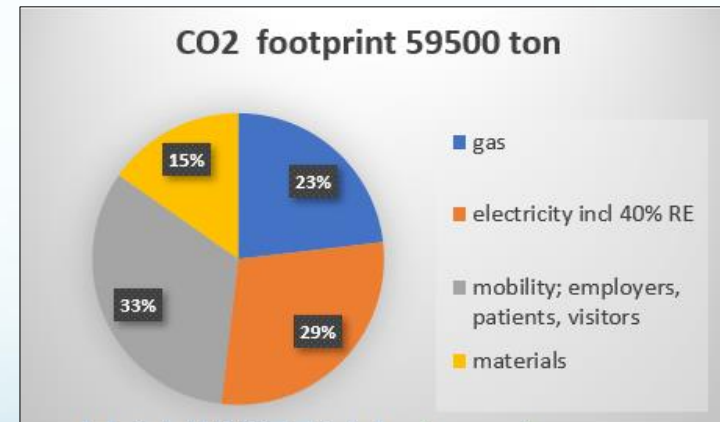
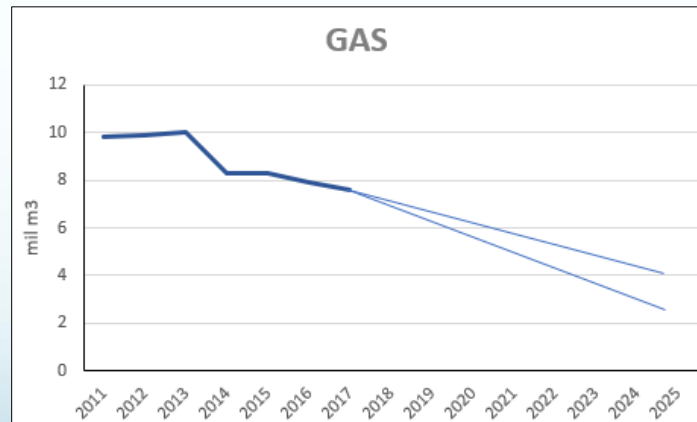
Moderator:



Energy use Radboudumc

Gas 7.8 mil m³ /year

Elektricity 52 mil kWh /year





Green electricity

Ambition Radboudumc carbon-neutral by 2030

Challenges

- The campus, including the Radboud University, uses 110 GWh electricity annually
- No opportunity to produce that all on-campus
- Investing in energy producers is complex for a public organization





Tender electricity 2018

- Radboud wanted to contribute to an increase in sustainable *generation*, not merely using energy form existing installation.
- EU rules forbid direct bilateral consultation; had to submit open EU tender.

Consulting the market prior to tender;

- What is reasonable to ask
- What tender will benefit the developers of green generation



Unique tender

Tender evaluated on quality and prices

Quality

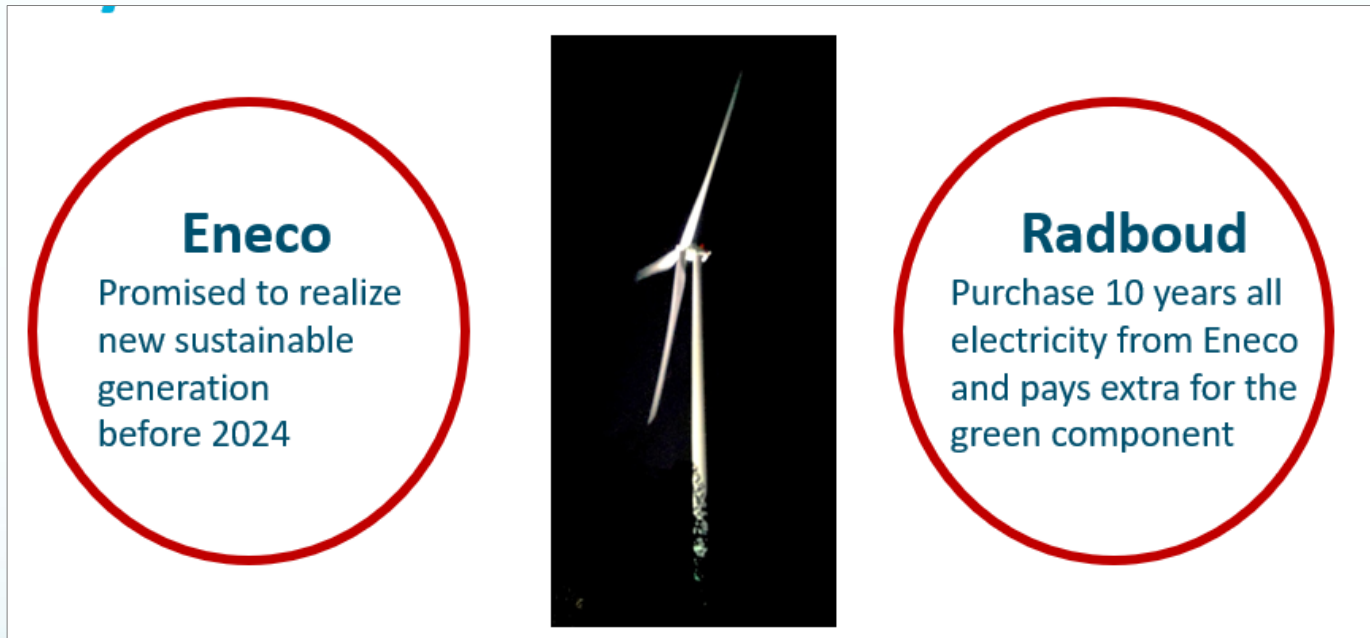
- Presumed portfolio sustainable generation to be realized before 2024
- Possibility to invest in small project in neighborhood
- Hour matching pilot

Prices

- Surcharges on market prices and green electricity allowances



10 years contract Radboud and Eneco

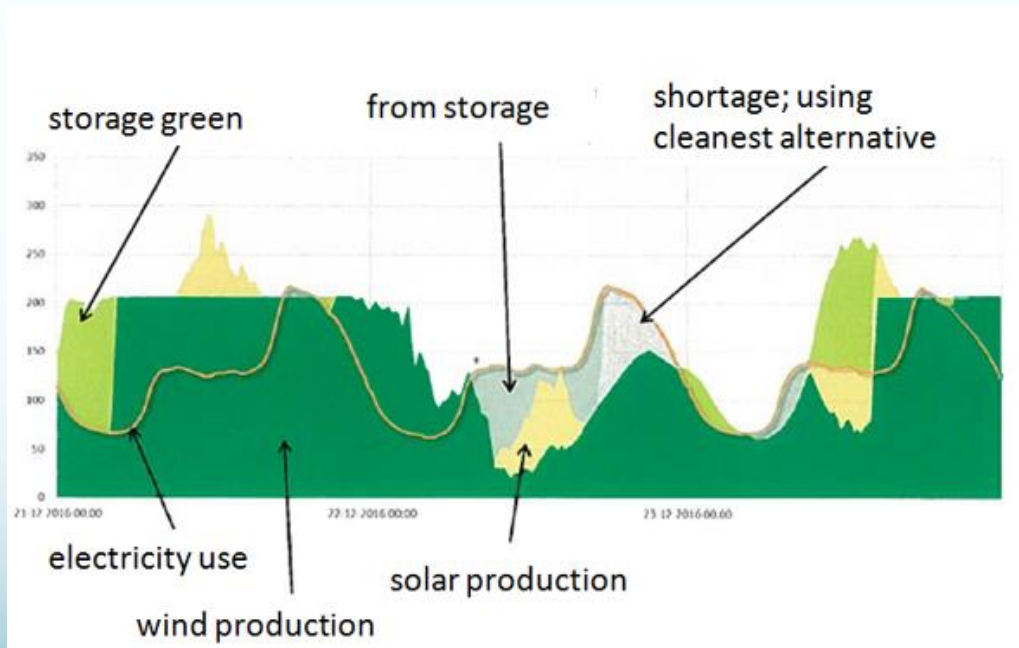


- Radboud: 50% green electricity in 2022 100% green in 2024
- Eneco: better business case through guaranteed sale of green electricity



Hour matching part of the agreement

Research to optimize portfolio of generation, storage and demand side management



Aim to complete one or more pilot project



Economic value

- Radboud fixes the electricity price in 10% slices of the year volume, on market price 1-3 year ahead
- Additional cost of green electricity € 240.000 /year
4.5-6.5% of the all-in electricity prices,
which depends on market price
- CO₂ reduction of 27.000 ton CO₂
(based on the present Netherland fuel generation)
- 30% reduction of our present CO₂ footprint
including scope 3

**Our win is not financial, it is our contribution to
CO₂ reduction**



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