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Regional trends in energy investments, trade and innovation for energy sector transformations

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Netherlands – energy sector transformations

Dutch gas exports after 60 yrs: X

Amsterdam Schiphol airport & sustainability: alternative fuels?

The Netherlands, feeding the world

Rotterdam Energy Port
Towards a hydrogen economy?
The nexus water, energy, food
Some examples in the region

**Solar:** (IRENA overview)
Port of Sohar Oman, partnership with Rotterdam

**Waste to energy:**
KSA, Witteveen & Bos

**Resource efficient food production:**
KSA Istidamah, Sabic & Wageningen University

**Energy efficiency, energy saving**
UAE retrofitting, examples Signify

**Off shore energy:**
Heerema Marine Contractors, LNG engines
The KES-70-billion (USD 694 million/EUR 59m) complex, comprising 365 units of the Vestas V52-850 kW turbines, will be able to generate enough power for about 330,000 local homes, accounting for 15% of Kenya’s total power production.
Thank you for your attention

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The Sleipnir is designed for worldwide offshore heavy lifting. It is equipped with two cranes of 10,000 metric tonnes lifting capacity each and a reinforced deck area of 220 meters in length and 102 meters in width, which make it the largest crane vessel in the world.

The dual cranes provide for heavy lifting capacity both to install and remove jackets and topsides. Furthermore, the cranes can be utilized for installation of foundations, moorings and structures in deep water.

The Sleipnir is self-propelled with a minimum service speed of 10 knots, with power generated by means of dual fuel engines – MGO & LNG. Station-keeping is by means of dynamic positioning (DP3) or mooring system.
Rotterdam Energy Port

Rotterdam Energy Port

- Offshore reservoirs
- BritNed interconnector
- Westland greenhouse area
- Greenhouse areas
- Hoogvliet district heating
- Rotterdam district heating

Electricity plants:
- E.ON Berkelux 2012
- Electrabel 2013
- EnecoGen 2011

Wind power:
- 150 MW 2016
- 50 MW 2011

Syngas cluster:
- 2015-20

Expansion coal & biomass:
- EMO (coal, biomass) 2011-13
- EECC (coal) 2011-13
- EBS (coal) 2012

Steam & waste heat:
- Waste heat E.ON → Gate 2011
- AVE Rezenburg
- District heating WBR (Rotterdam/E.ON) 2013
- Steam pipe (Stedion) 2013

CO₂ projects:
- CO₂ terminal (CINTRA) 2015
- ROAD (E.ON/Electrabel) 2015
- Abengoa → OGAP 2011
- Air Liquide Green Hydrogen 2018
- CO₂ common carrier (HUB/Stedion/AL) 2015