# Fourth IEF-EU Energy Day

18 February 2020, Riyadh

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

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# COP15 2009 - COP25 2019

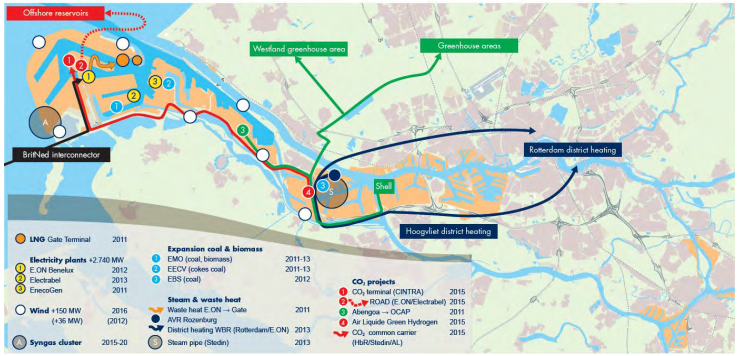




# Netherlands – energy sector transformations

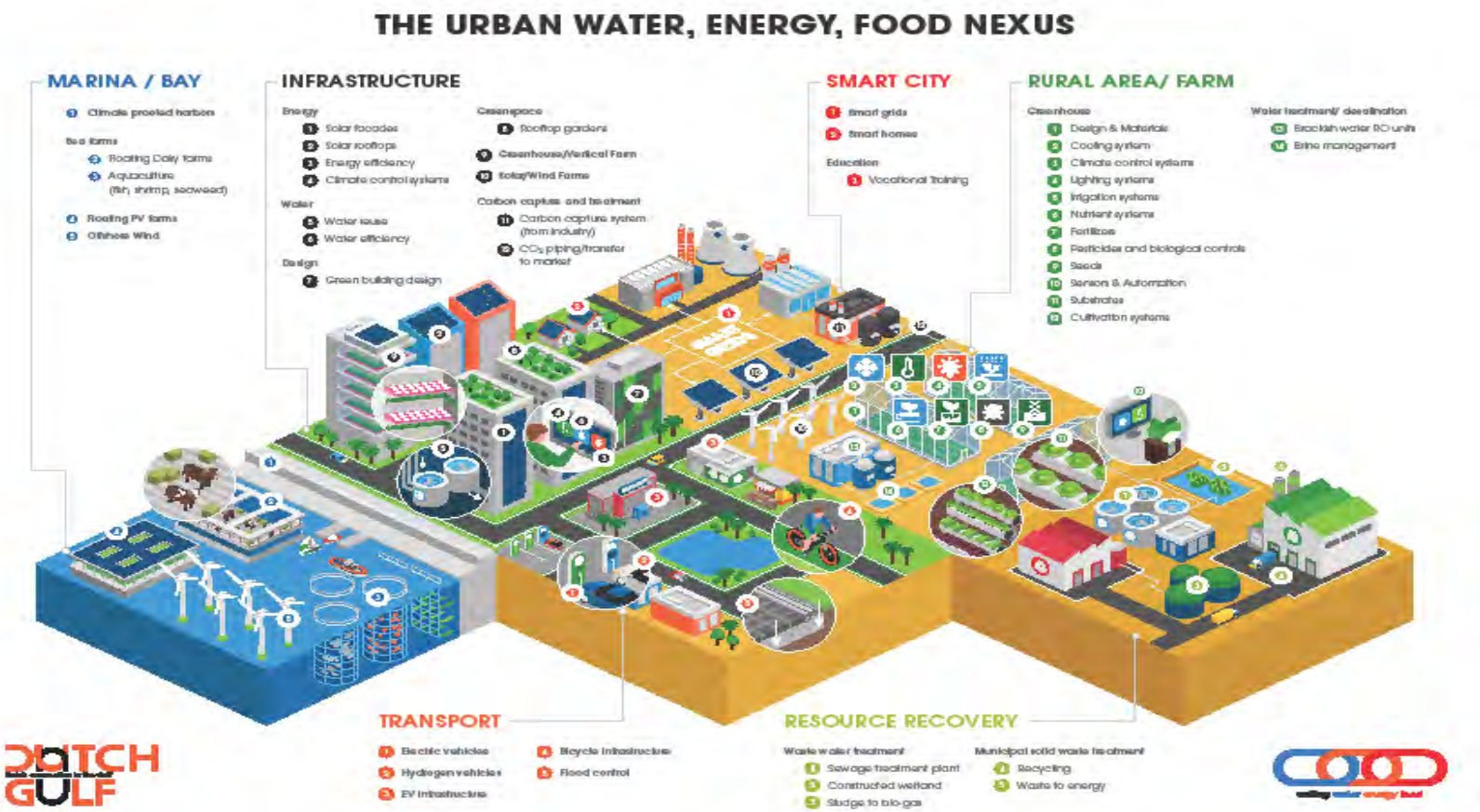



Rotterdam Energy Port



# 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

# Business Development - Kenya, Lake Turkana Wind Power 2006-2019

Dutch entrepreneur in Kenya,
Willem Dolleman

Dutch Government support,
knowledge,
finance

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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# Sleipnir – Heerema Marine Contractors


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