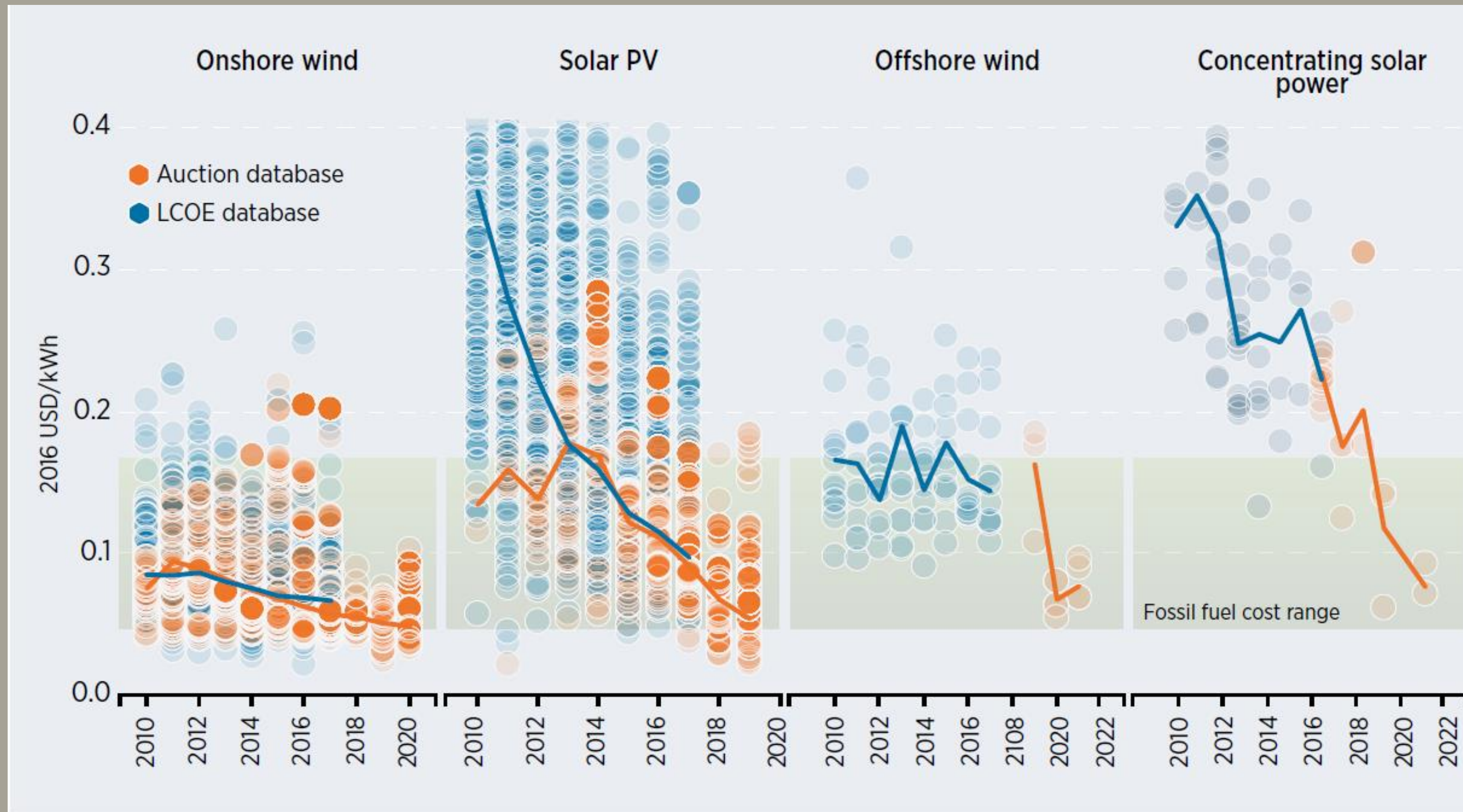


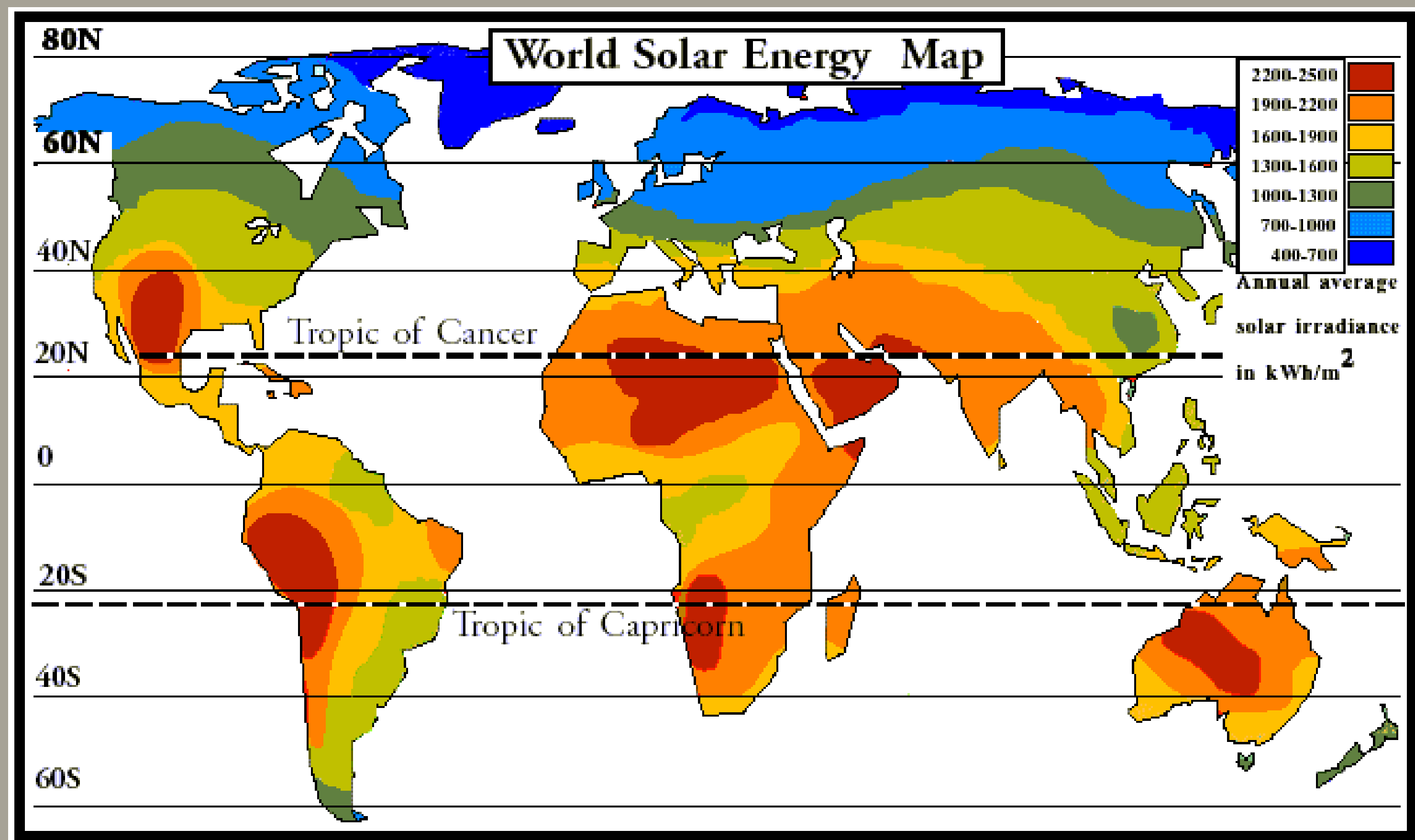
Levelized Cost of Electricity



Source: IRENA Renewable Cost Database and Auctions Database.

Electricity, Water, Hydrogen, Heat; The circular energy system



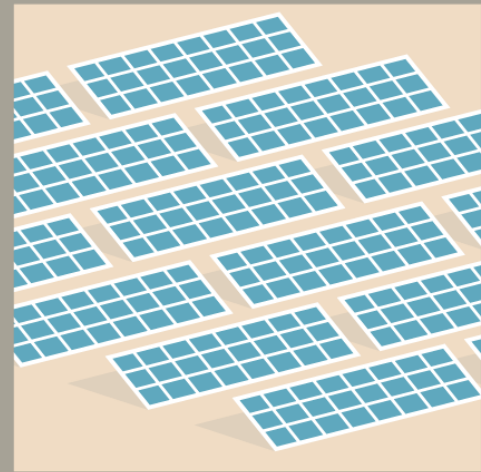


Electricity, Water, Hydrogen, Heat; The circular energy system



Surface needed to produce all the world's energy

556 EJ = 155.000 TWh



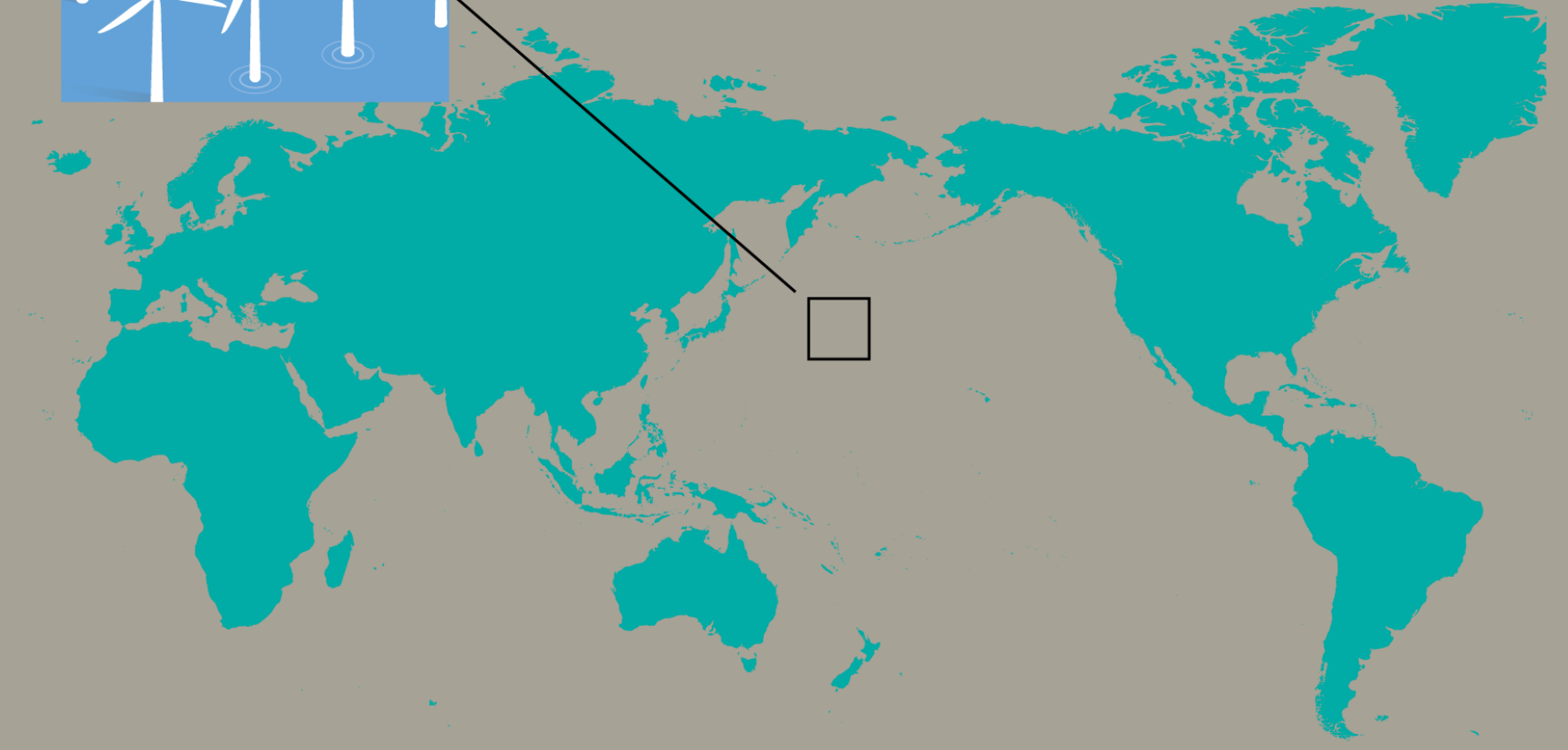
10% SOLAR AUSTRALIA



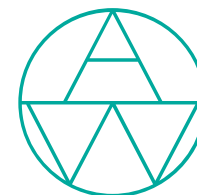
OR



1.5% WIND PACIFIC OCEAN

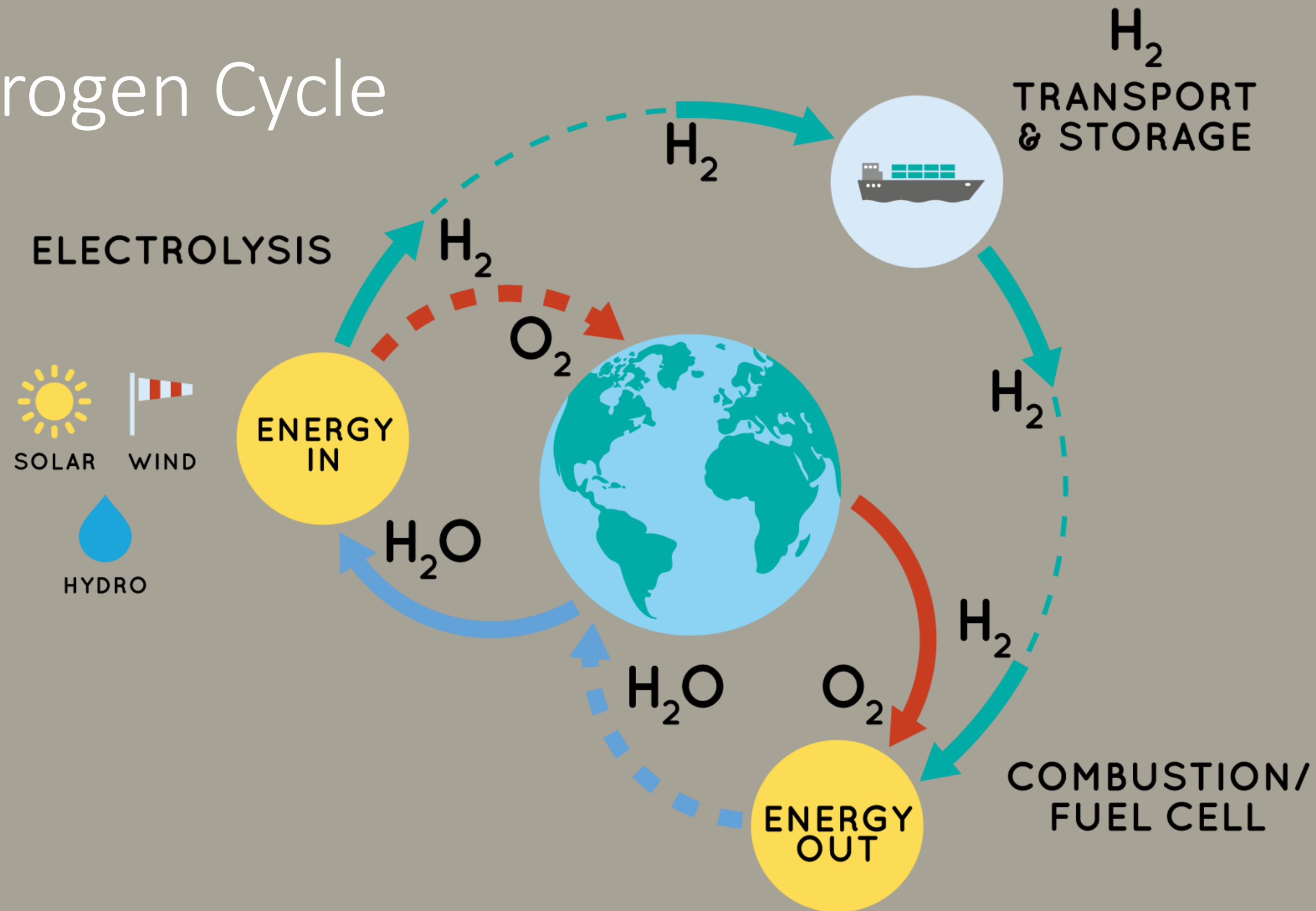


Electricity, Water, Hydrogen, Heat; The circular energy system



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The Hydrogen Cycle

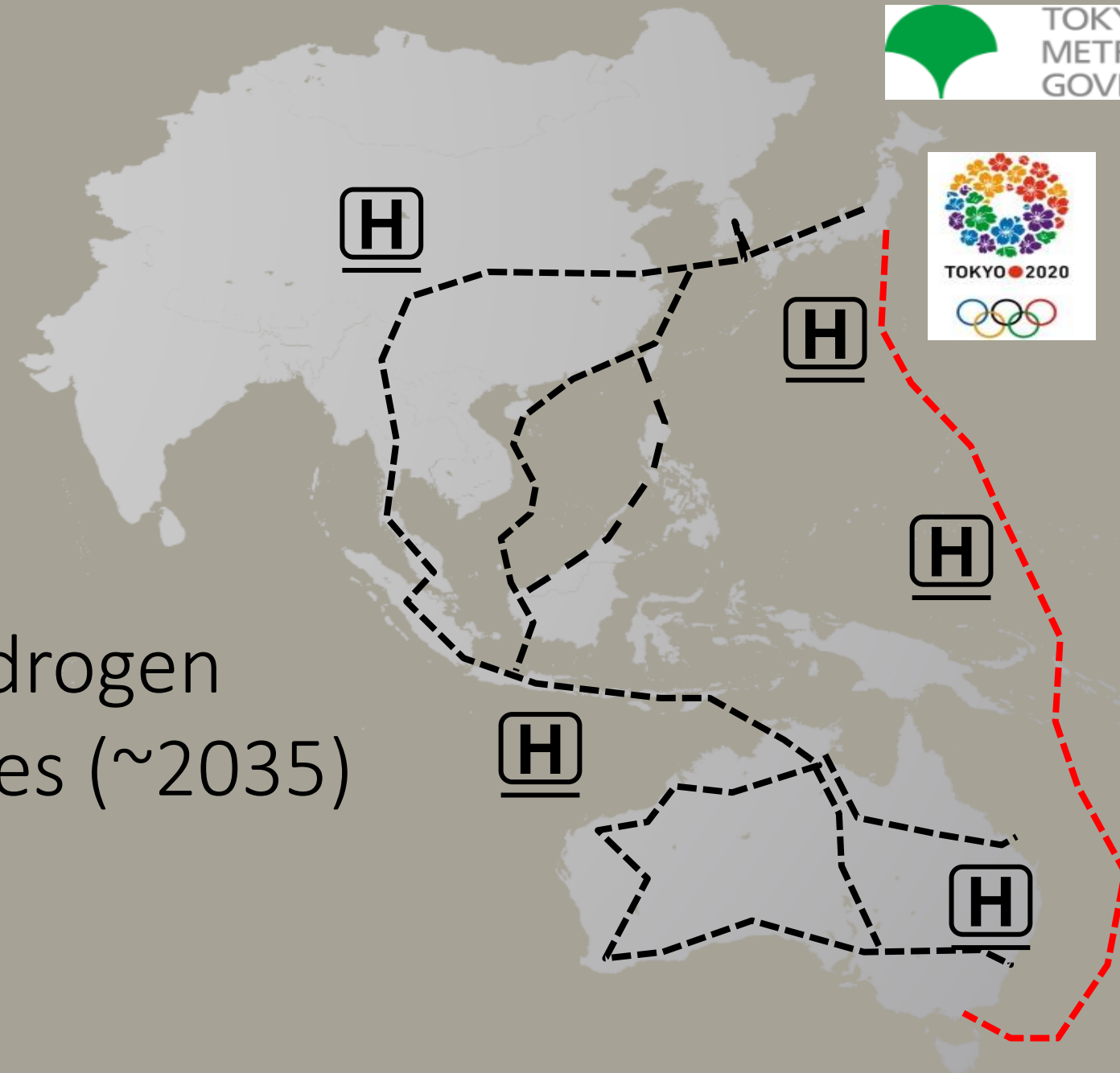


Electricity, Water, Hydrogen, Heat; The circular energy system

Tokyo Olympic Games 2020



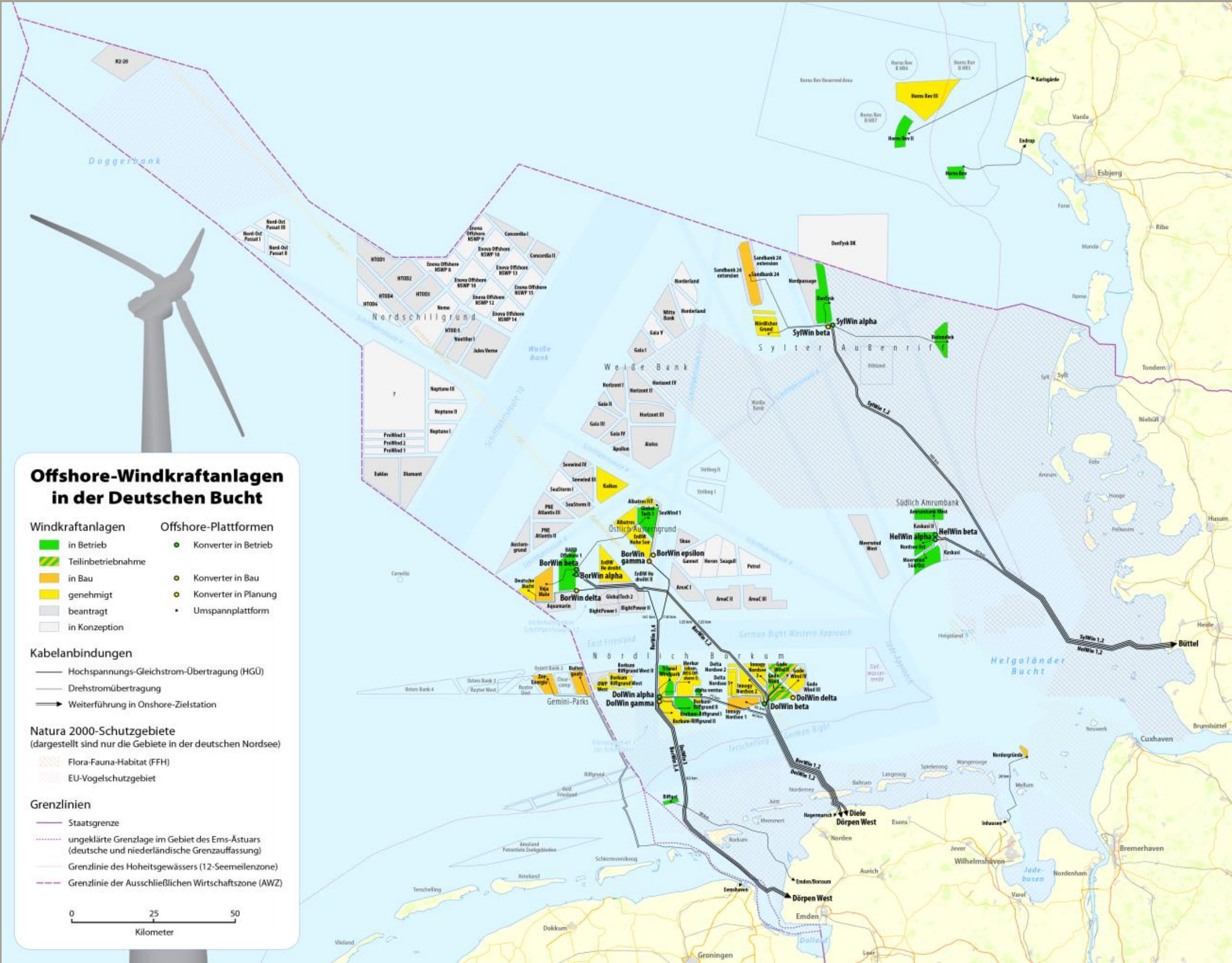
Hydrogen
Pipelines (~2035)



Electricity, Water, Hydrogen, Heat; The circular energy system



Offshore Wind Development Germany

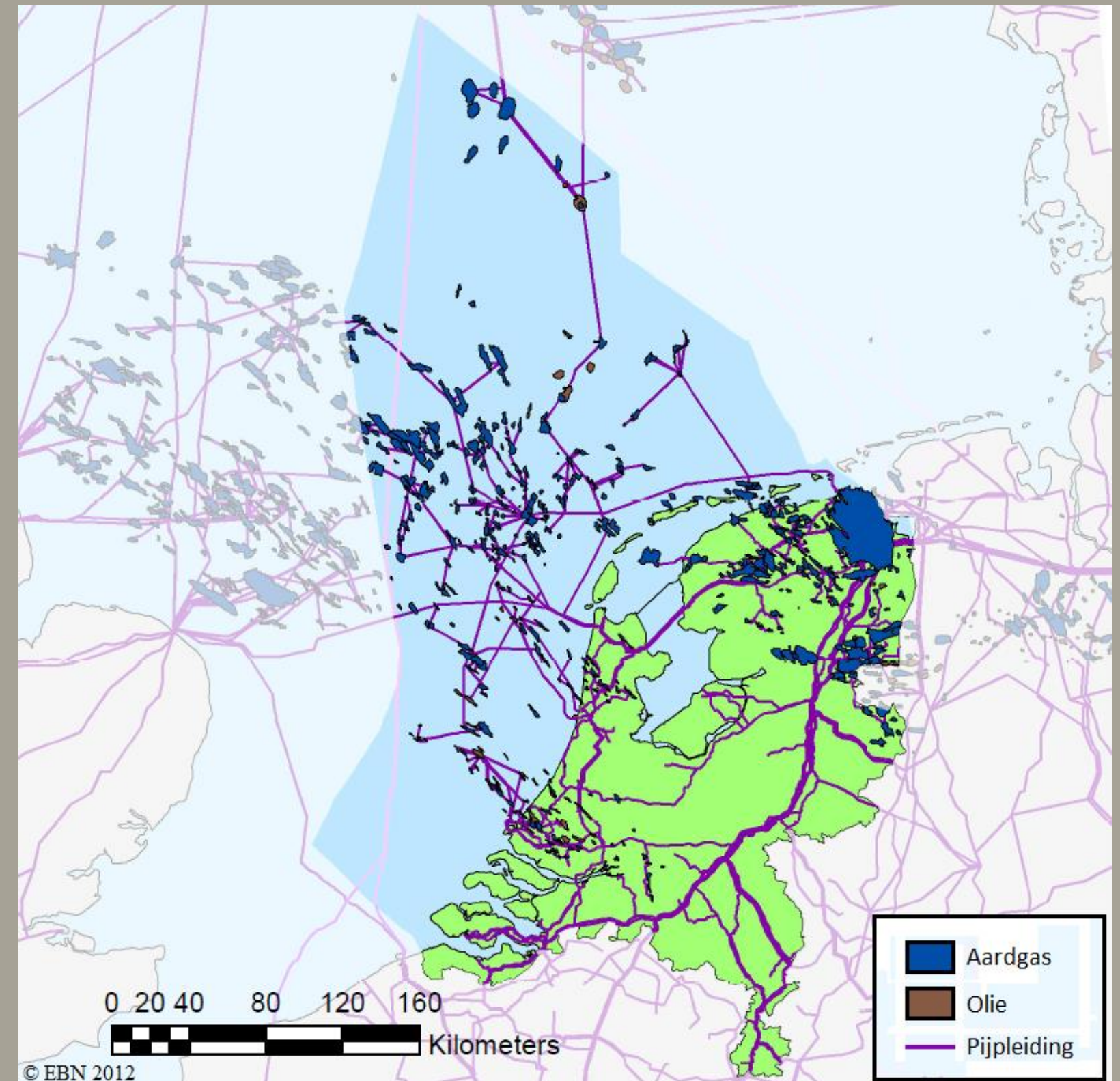


Electricity, Water, Hydrogen, Heat; The circular energy system



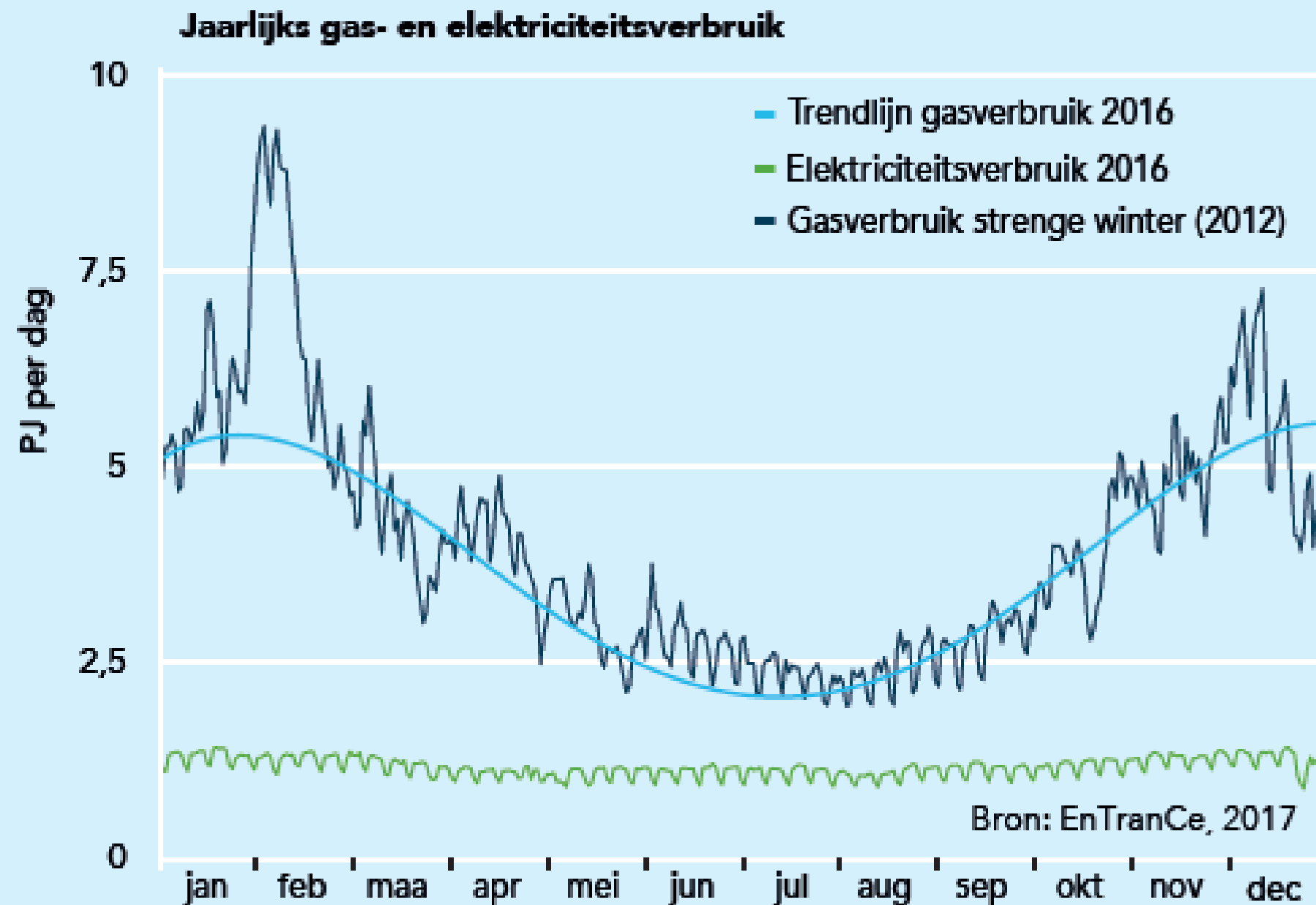
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Electricity and Gas Transport Grid the Netherlands



Electricity, Water, Hydrogen, Heat; The circular energy system

Gas and electricity consumption in the Netherlands



Solar power production in Germany

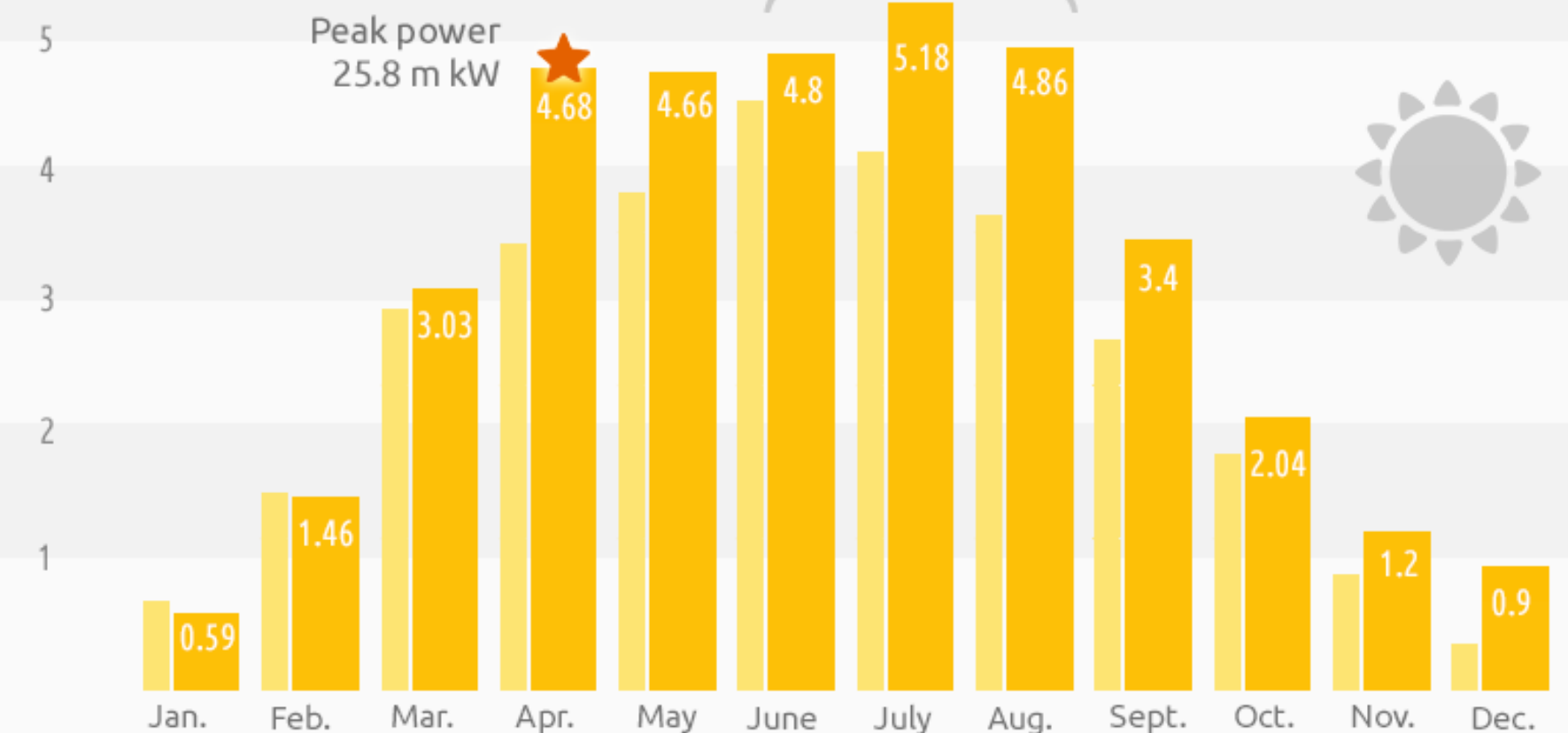
SOLAR POWER GENERATION IN GERMANY 2015

Solar energy sets a new all-time summer record and beats peak power output

⚡ 36.8 bn kWh in 2015

⚡ 34.9 bn kWh in 2014

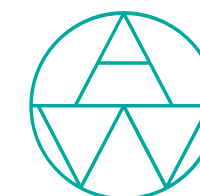
★ Summer record
14.1 bn kWh



Source 2014, 2015: Fraunhofer ISE, EEX

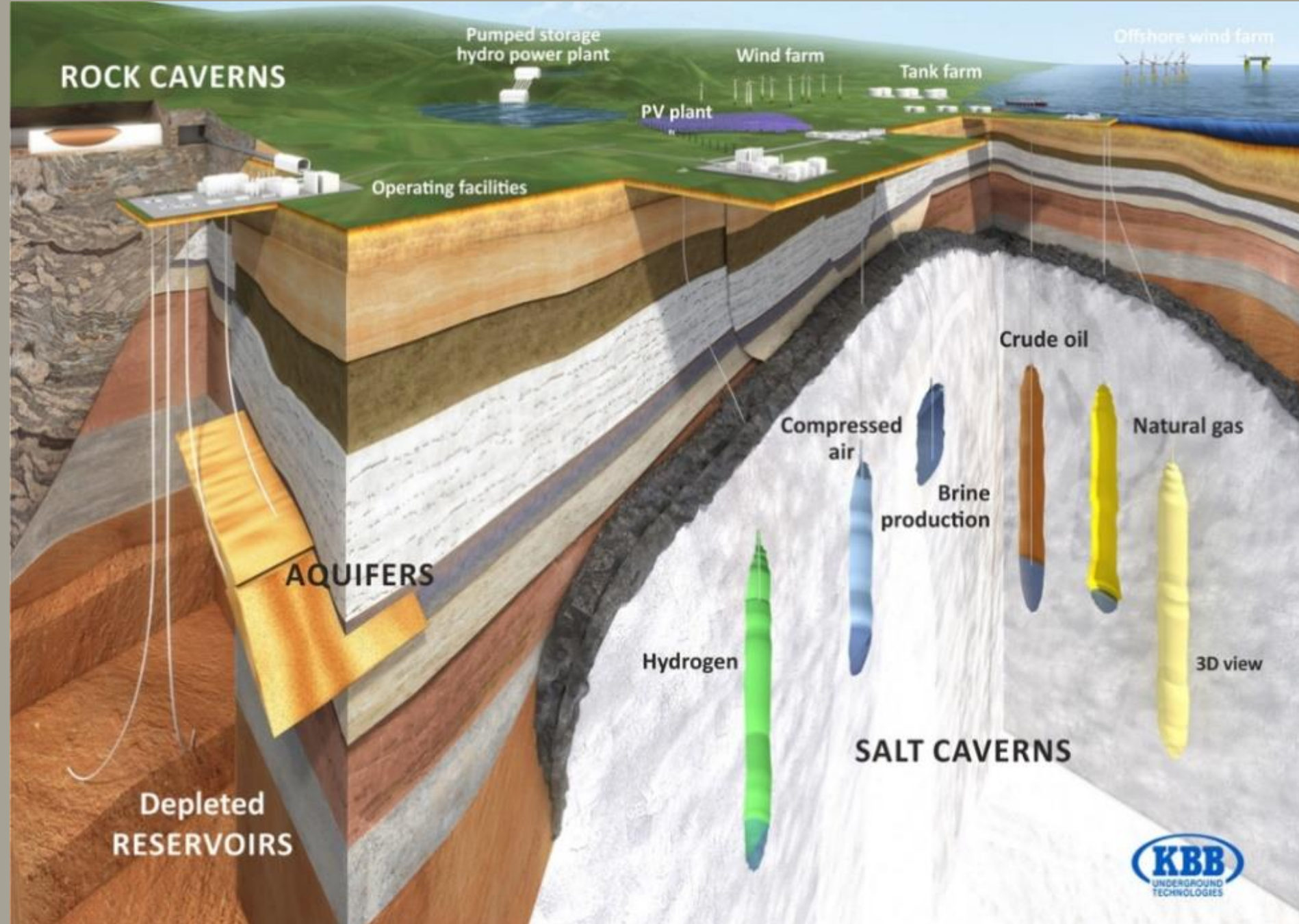
CC BY ND STROM-REPORT.DE

Electricity, Water, Hydrogen, Heat; The circular energy system



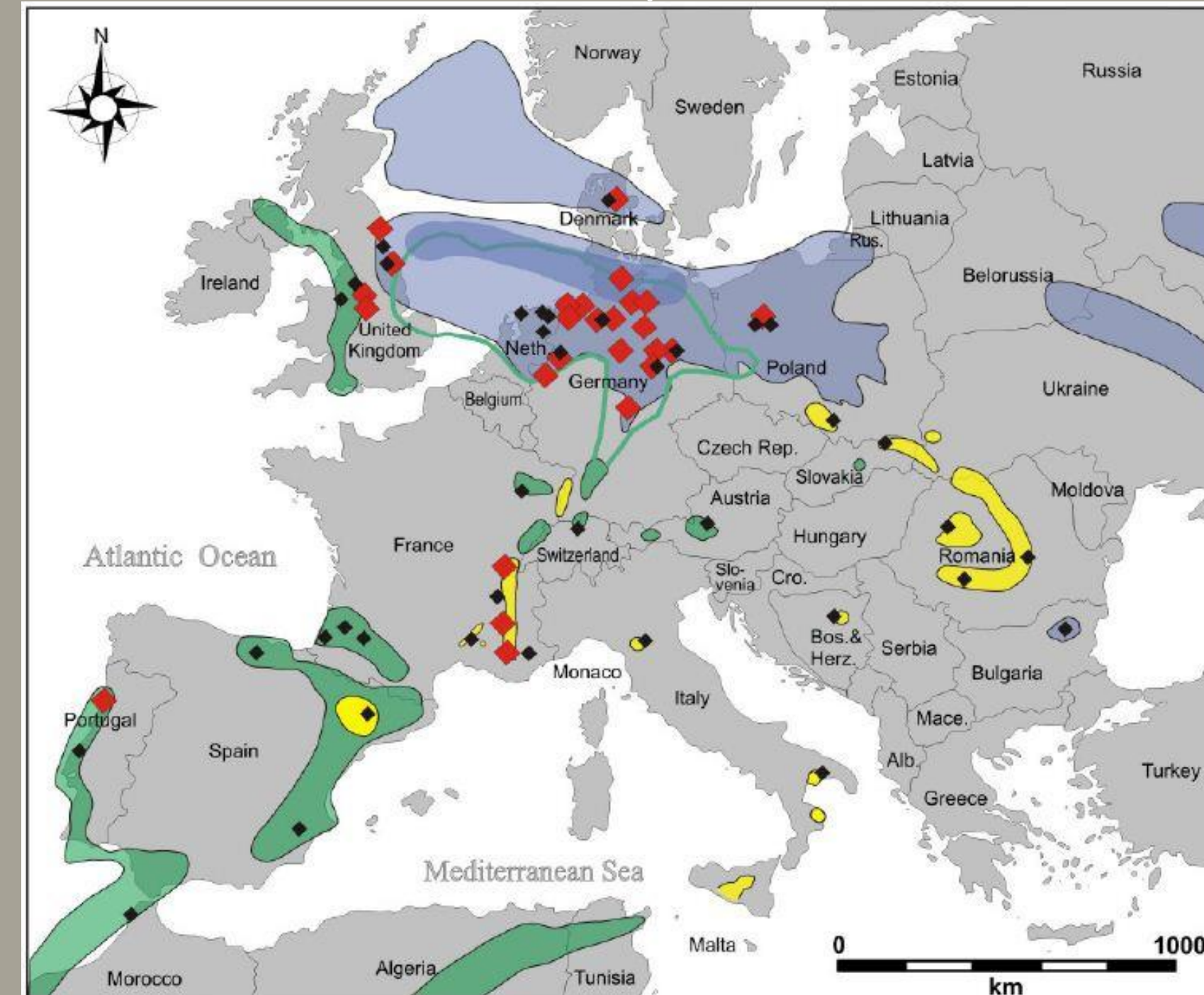
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Hydrogen storage in salt caverns



1 salt cavern can contain 6,000 ton hydrogen
Equivalent of 17 million home batteries (14 kWh)

Salt formations and caverns in Europe



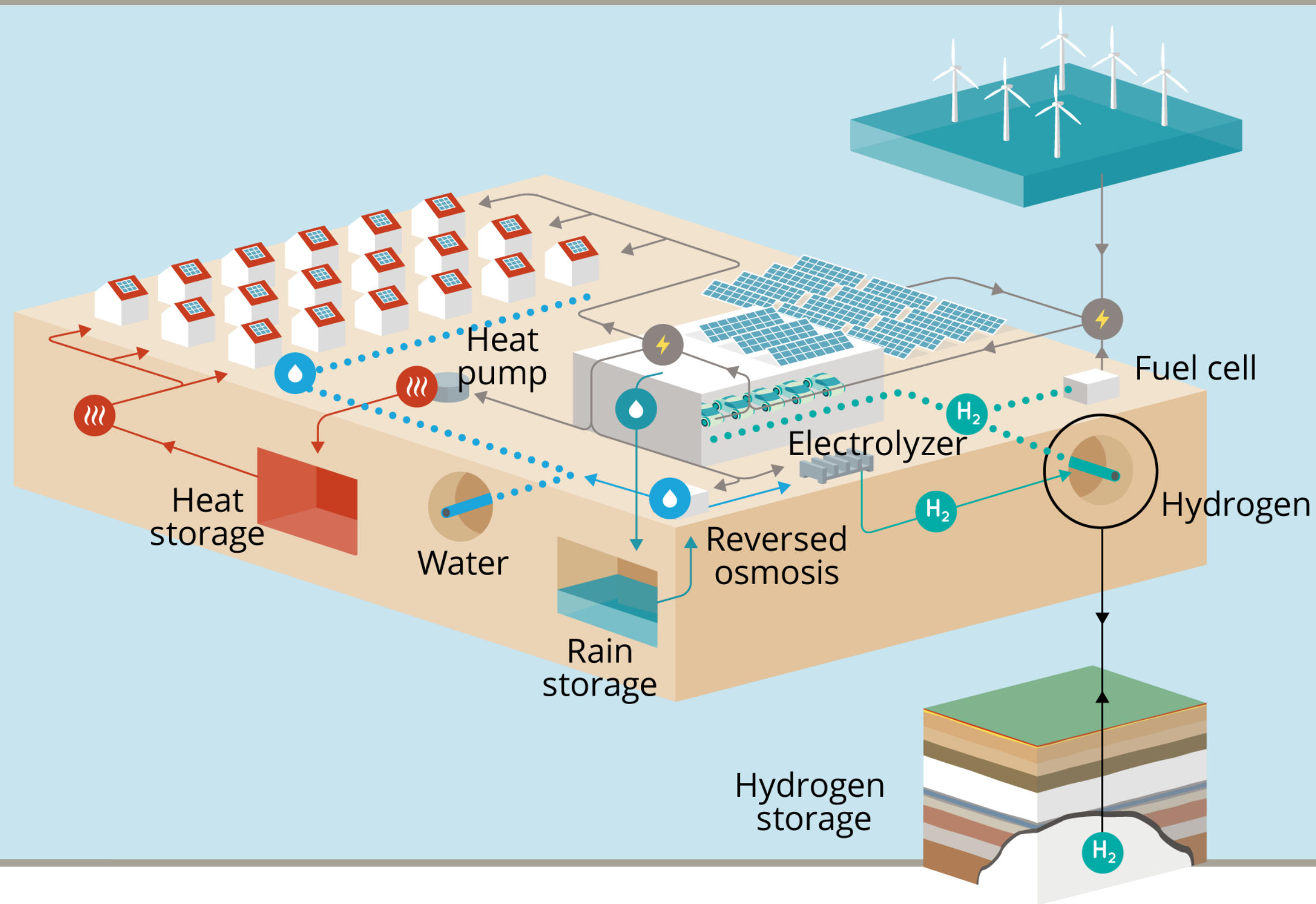
Red colored caverns in use for natural gas storage

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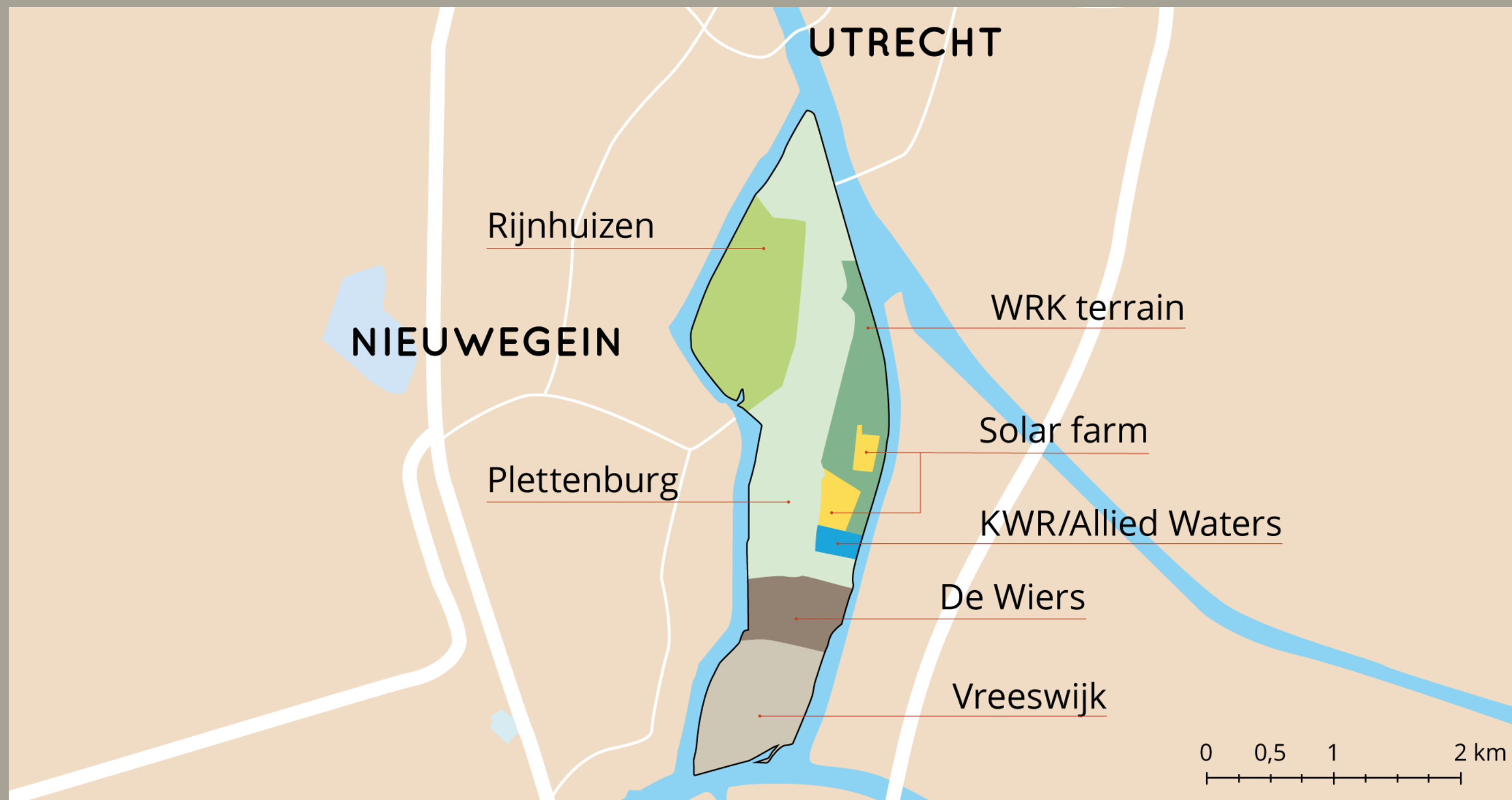
Solar power to the people in the city



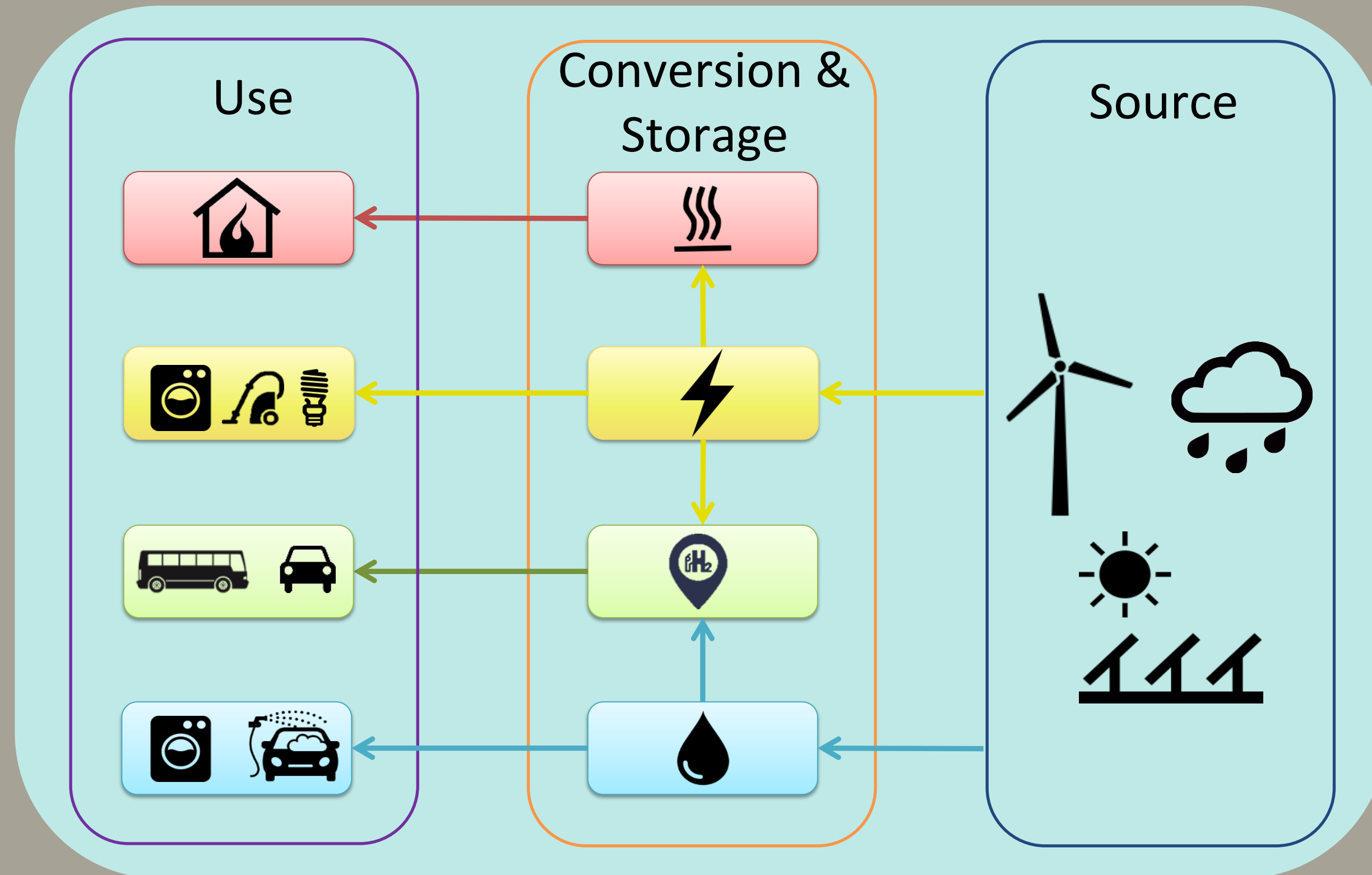
Electricity, Water, Hydrogen, Heat; The circular energy system



Power to X project in Nieuwegein-Utrecht



Power to X project in Nieuwegein-Utrecht



Electricity, Water, Hydrogen, Heat; The circular energy system

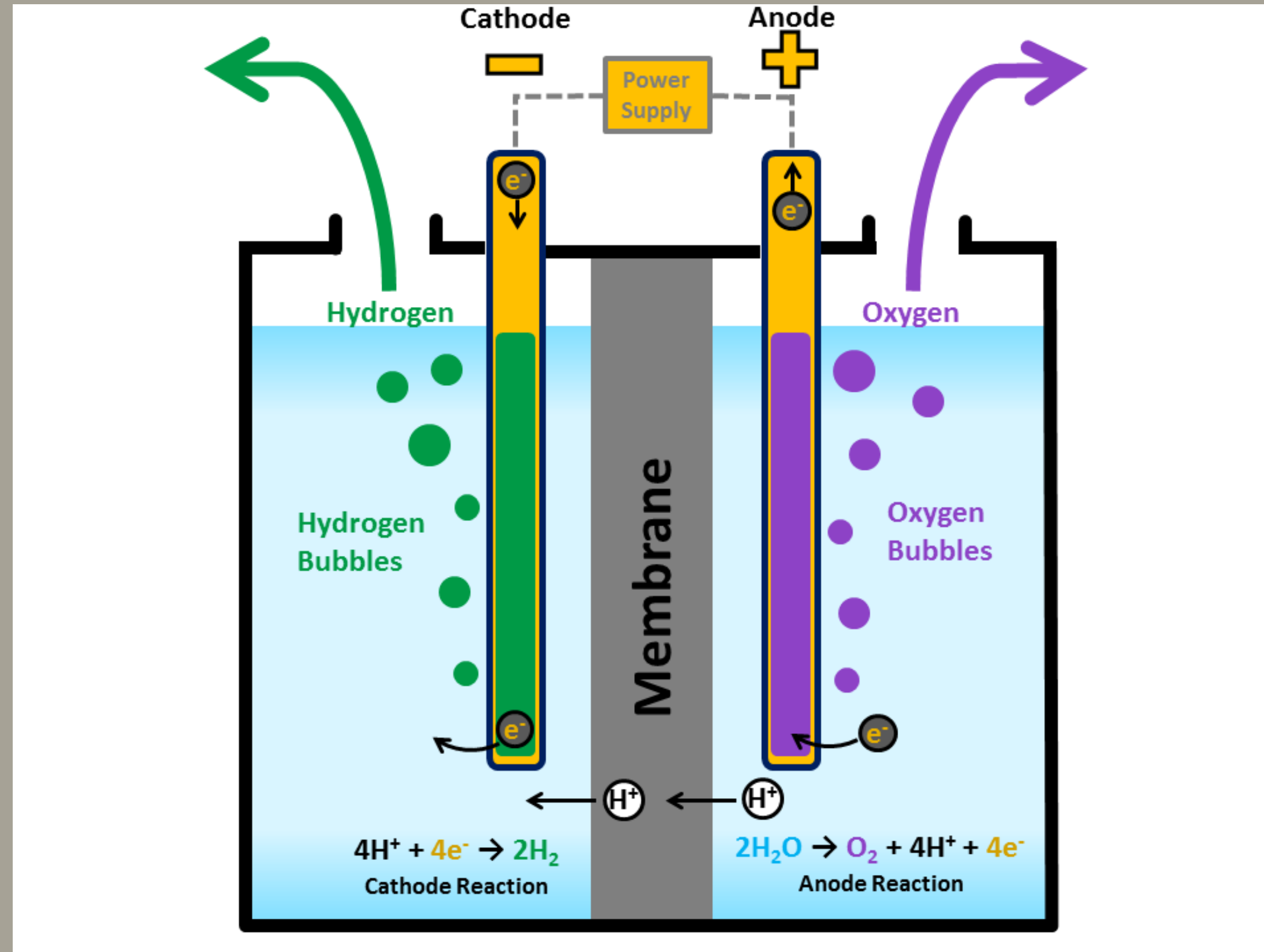
Solar Farm WRK Nieuwegein-Utrecht



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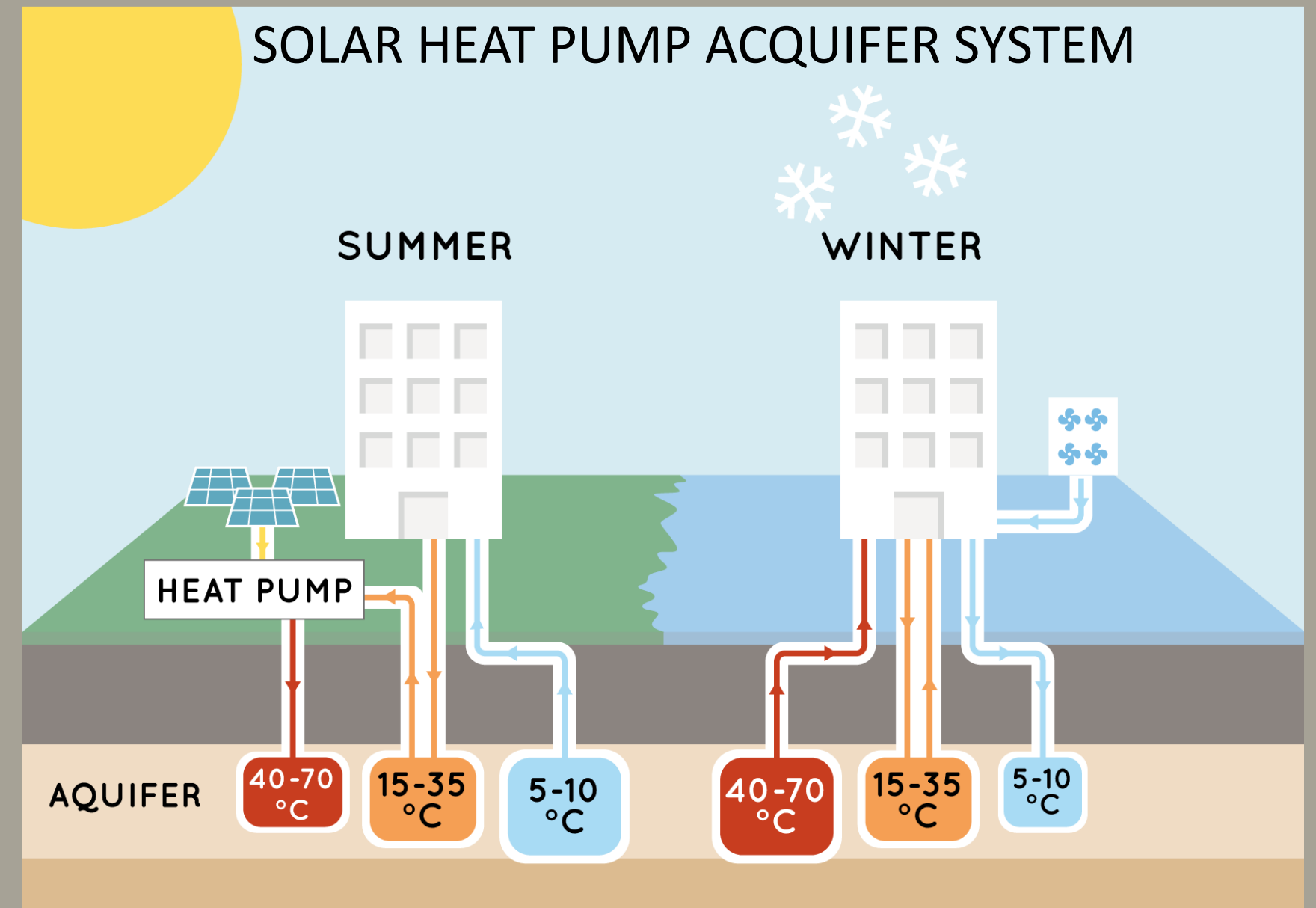
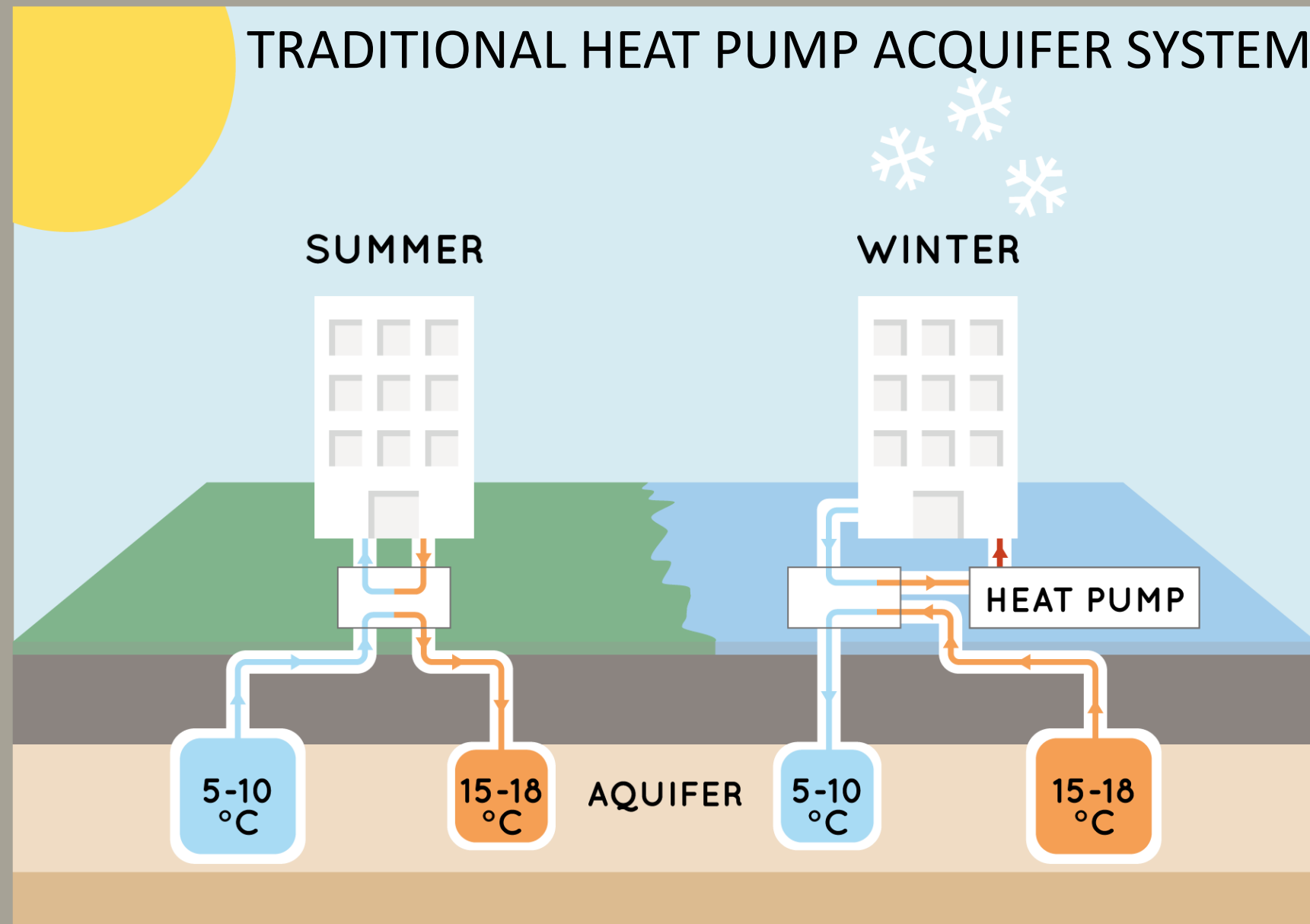
Hydrogen Production via Electrolysis



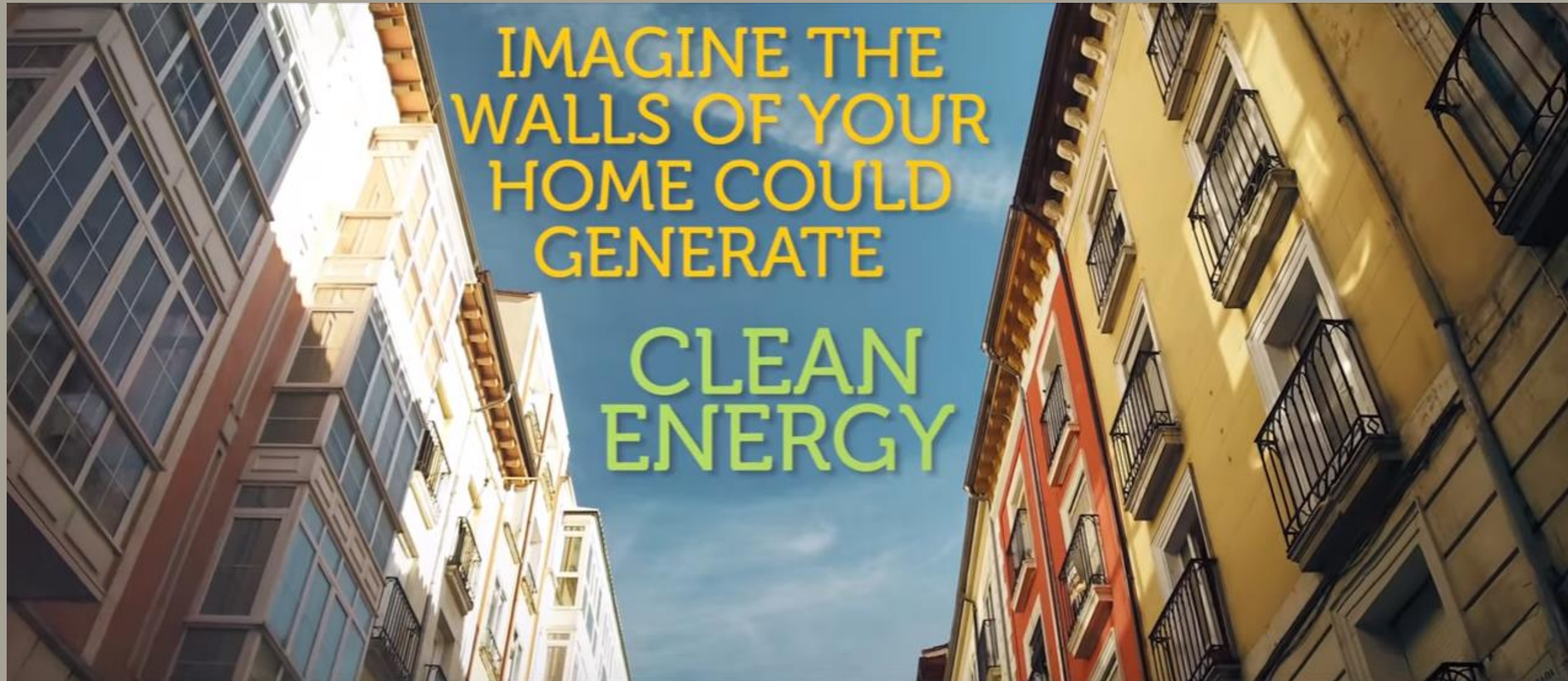
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Heat production via heat pump and storage in aquifers



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