

The logo for NORCE, featuring the letters 'NORCE' in a white, sans-serif font. The letter 'O' is replaced by a circular arrangement of small white dots.

NORCE

A photograph of an offshore wind farm at dusk or dawn. The sky is a deep blue, and the water is dark. A long line of white wind turbines extends from the left towards the right, receding into the distance. The turbines are illuminated from below, creating a reflection on the water's surface.

# Hydrogen underground storage: A step towards net-zero

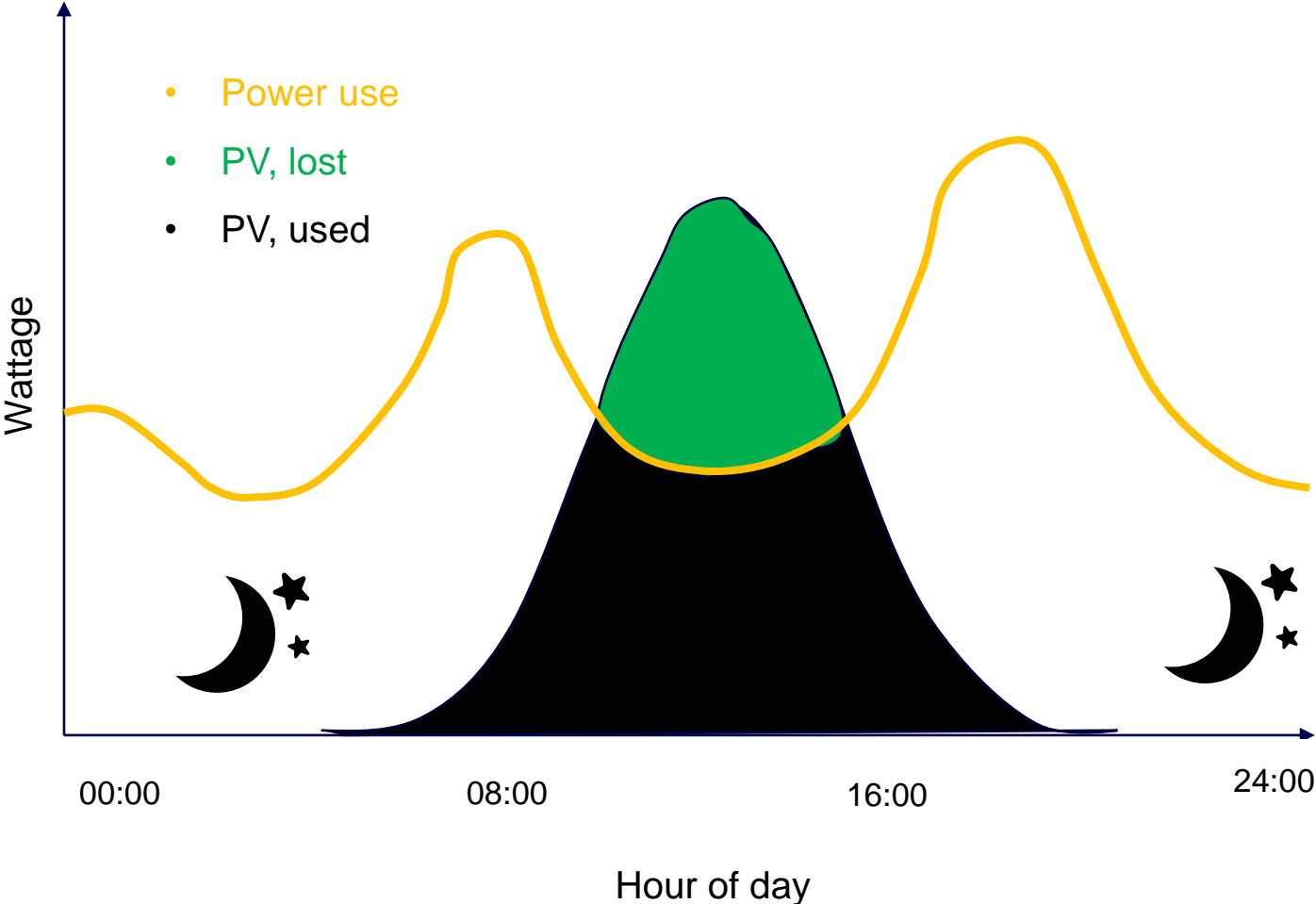
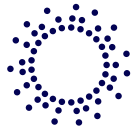
Ketil Djurhuus

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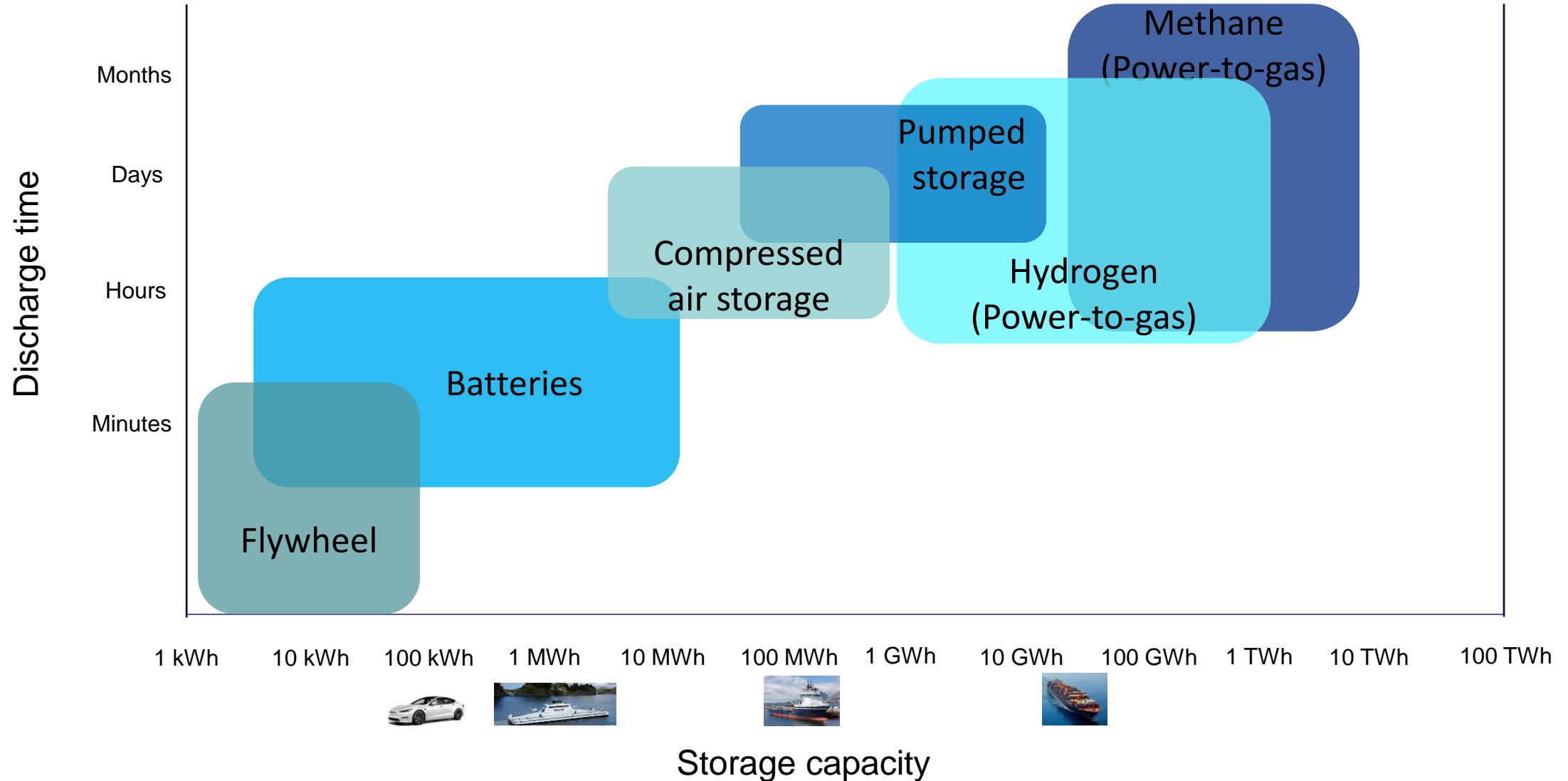
LeaderShip, 31.10.23

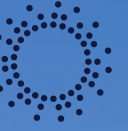
# Why do we need storage of energy?





# How do we store energy?





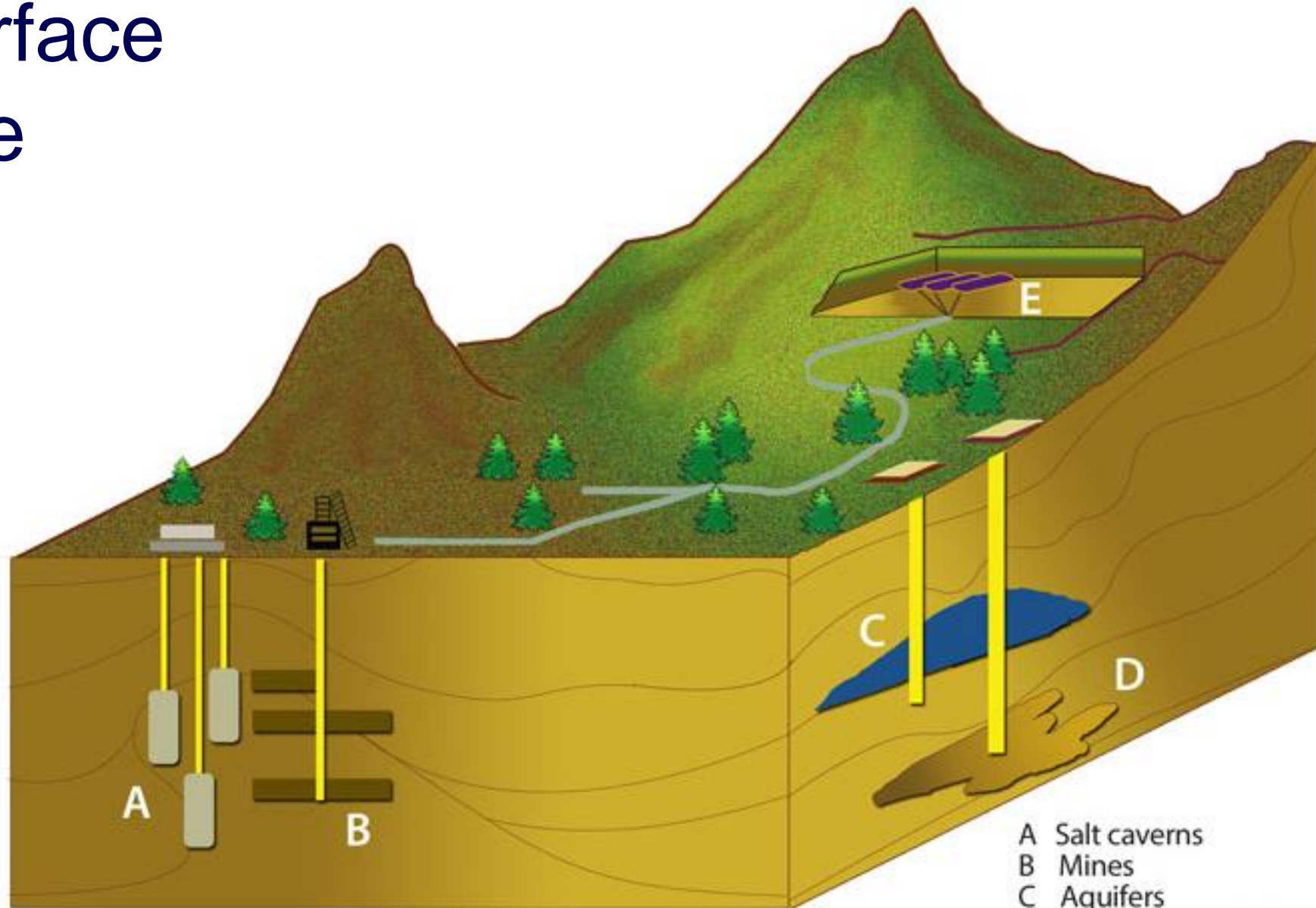
H<sub>2</sub>

Hydrogen H<sub>2</sub>

H<sub>2</sub> HYDROGEN POWER  
CLEAN ENERGY OF THE FUTURE

H<sub>2</sub> HYDROGEN POWER  
CLEAN ENERGY OF THE FUTURE

# Subsurface storage



- A Salt caverns
- B Mines
- C Aquifers
- D Depleted reservoirs
- E Hard-rock caverns



Foto: Silje Katrine Robertson



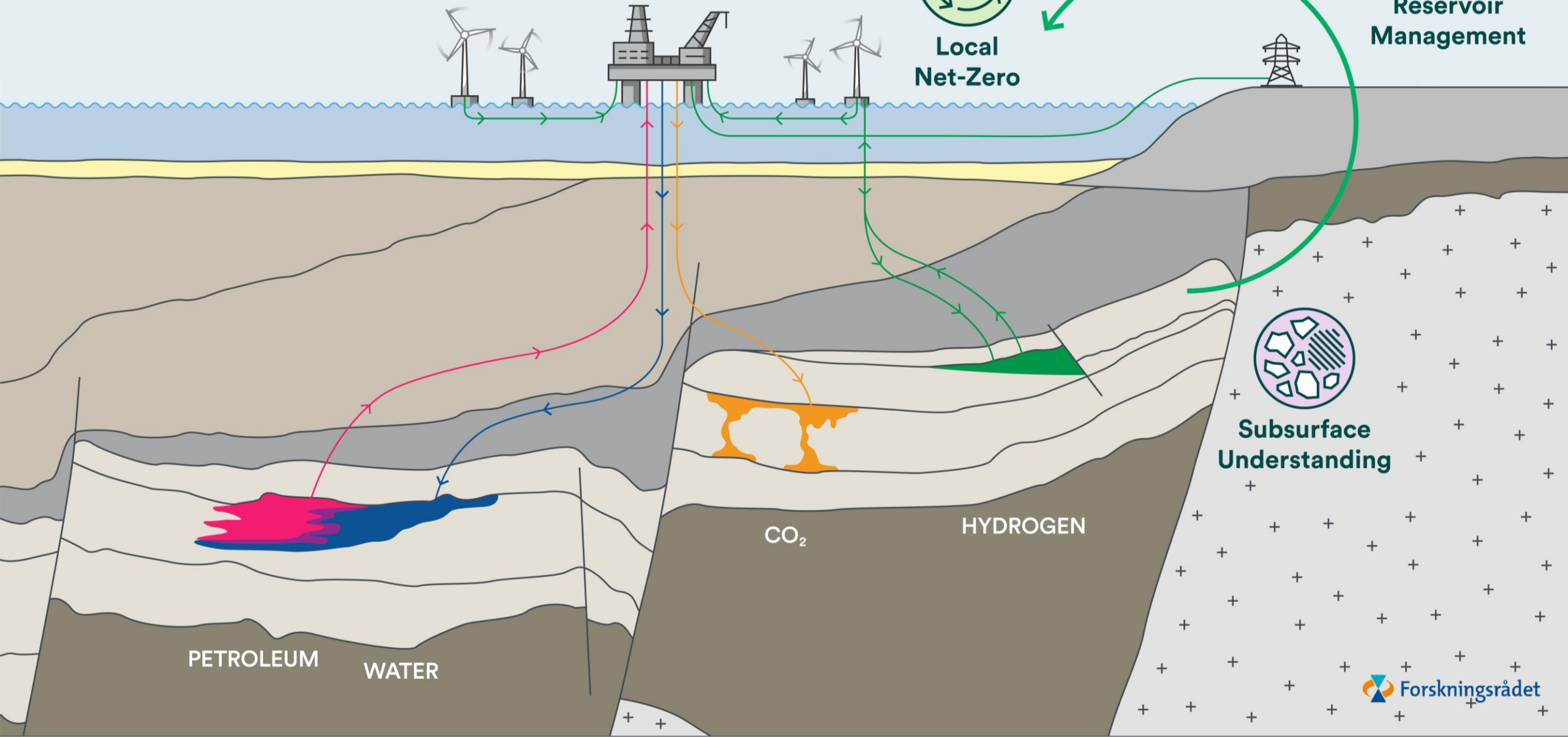
CSSR



Local  
Net-Zero



Reservoir  
Management



Subsurface  
Understanding

PETROLEUM

WATER

CO<sub>2</sub>

HYDROGEN





Hydrogen storage can be a driver  
for new offshore value chains.

