



# Hydropower in a fully electrified society – opportunities and barriers

Knut Kroepelien – CEO  
Hydropower summit, Trondheim, 4.2.2020



An aerial photograph of a Norwegian fjord. The landscape is characterized by steep, green cliffs and a body of water. The water is a deep blue, and the surrounding land is covered in lush green vegetation. A small, sandy beach is visible on the left side of the fjord. The overall scene is a beautiful representation of the Norwegian natural environment.

Our vision:

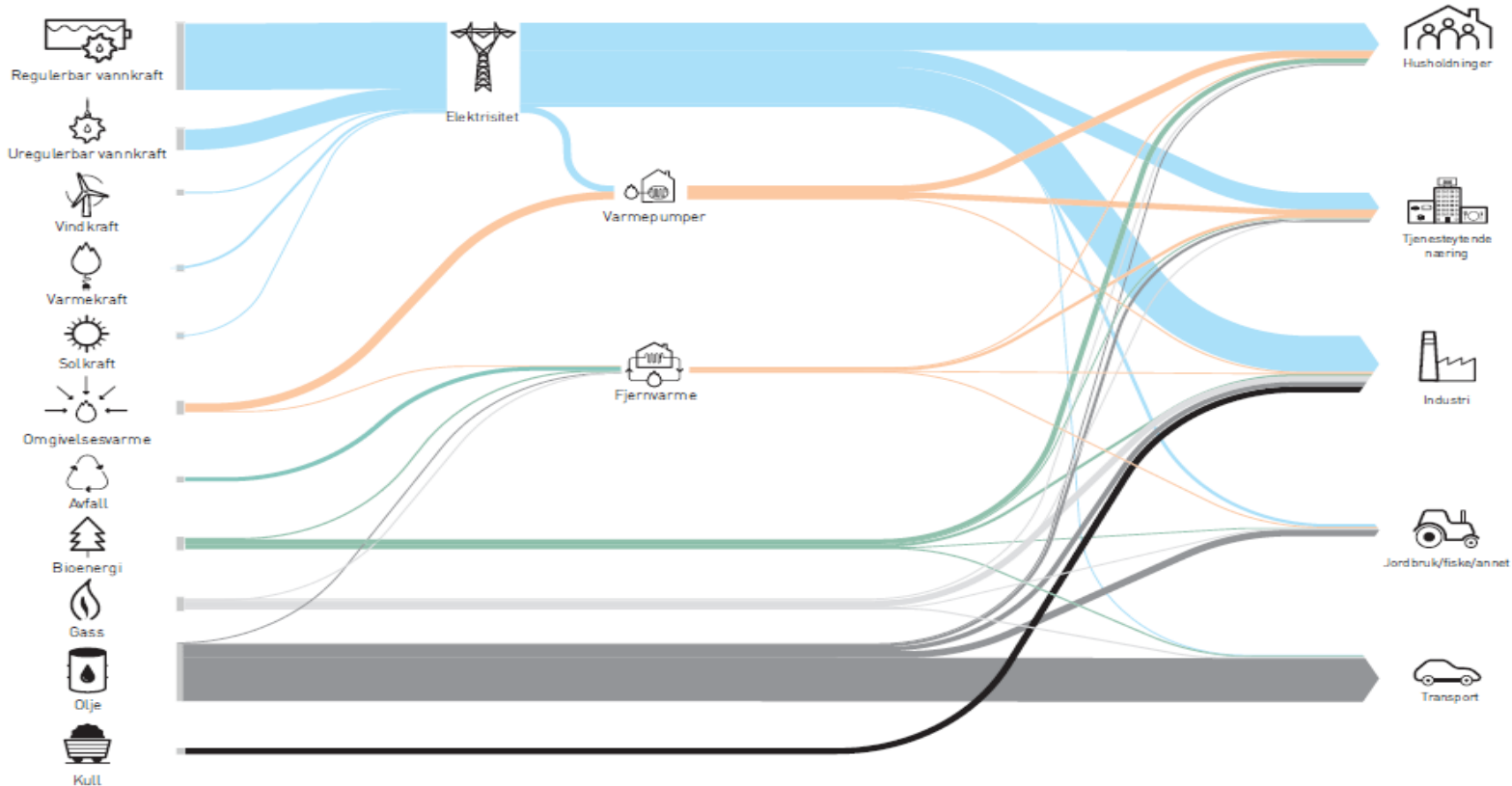
«Norway shall take a leading position as the first  
**renewable and all-electric** society in the world»

# Energisystemet i Norge

## PRODUKSJON

## DISTRIBUSJON

## FORBRUK



Figur 2.1 Illustrasjon av Energisystemet i Fastlands-Norge.

# Opportunities and barriers

1. Energy demand
2. Flexibility demand
3. Customer demand

1. Technology
2. Public acceptance
3. Taxes





**Batteries replace exhaust pipes**





**Aquaculture going electric**



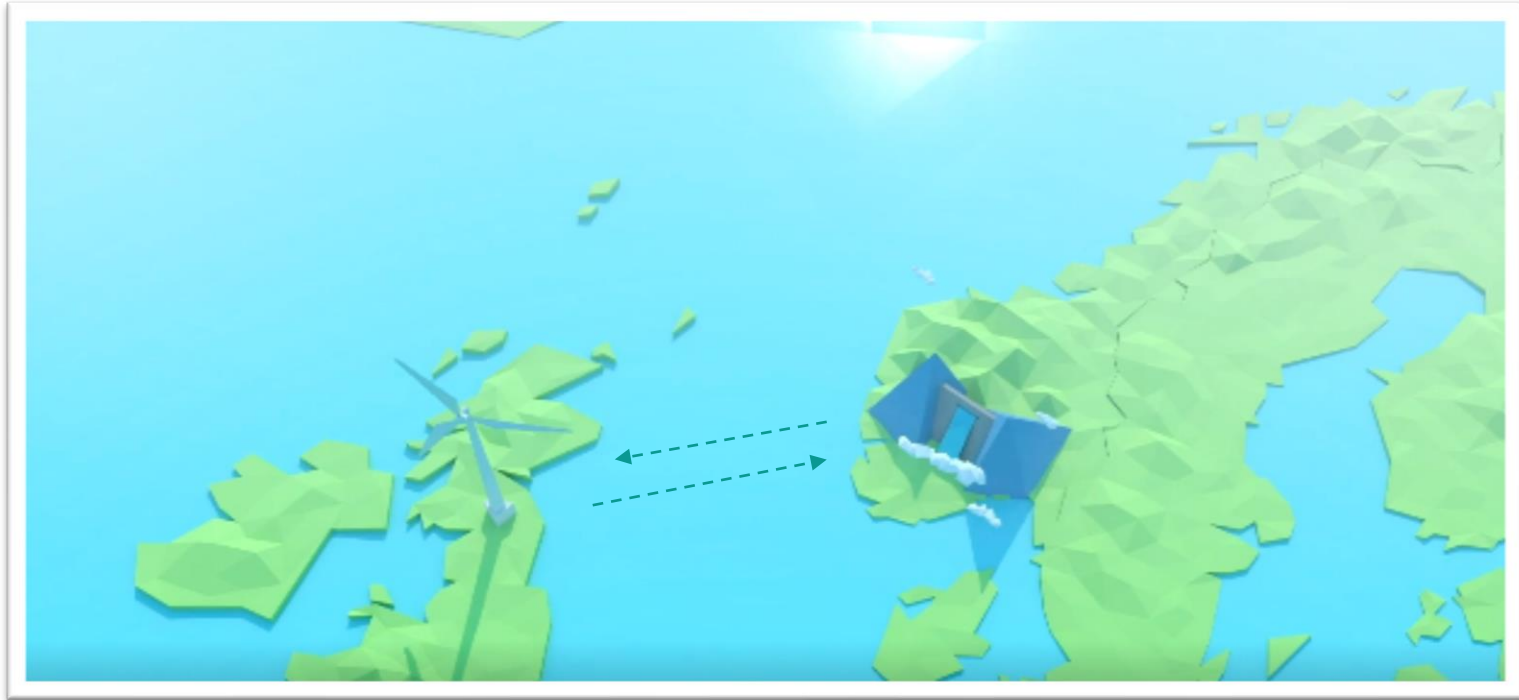


Hydro Karmøy



**New industrial opportunities**

# A race for flexibility – physical and market



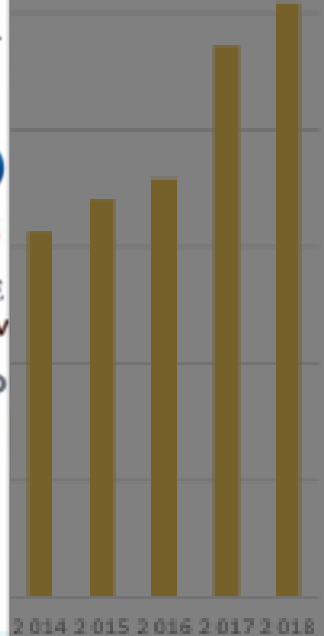


# Customer value

600 000 000

FORBRUK  
OPPRINN  
GARANTI

SECUR  
HNO338  
SECUR  
HNO338



Graphic: Secour

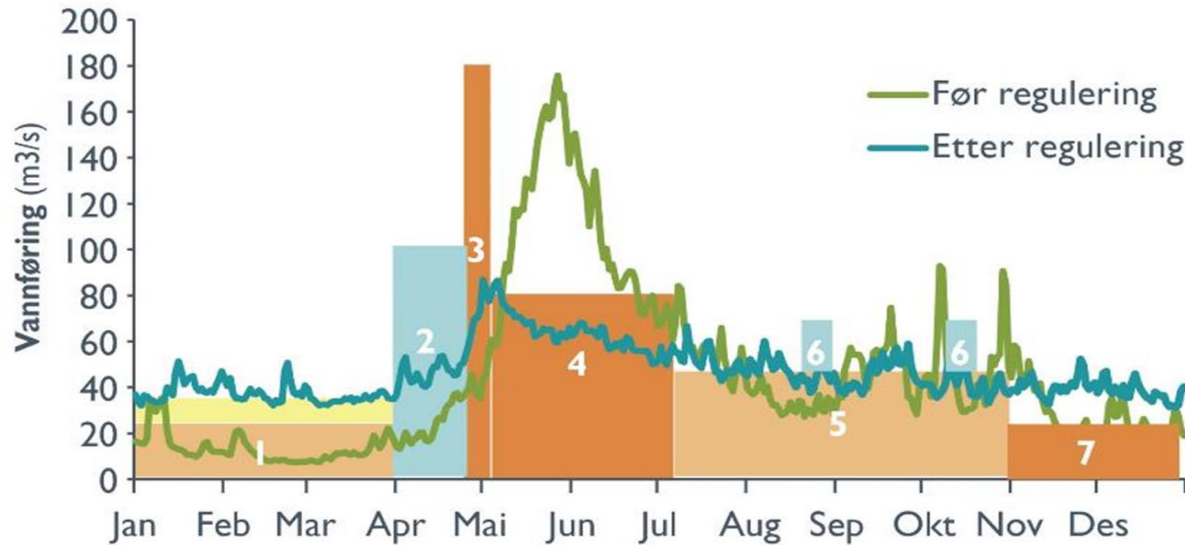
# Technology R&D

- Hydrocen
- RDS Hydro

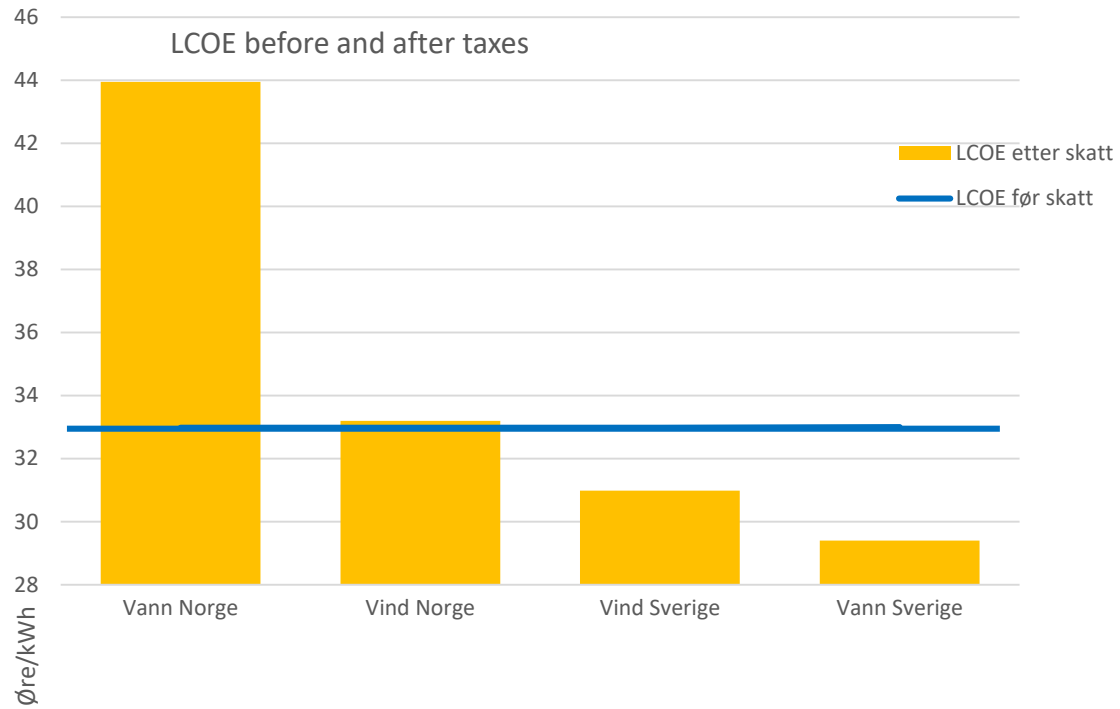




# Acceptance – environmental design



# Taxation





A scenic view of a Norwegian fjord at sunset. The water is calm, reflecting the warm orange and pink hues of the sky. In the foreground, several red wooden houses with white trim are built on a rocky, elevated shore. The background features steep, rugged mountains under a cloudy sky. The text "Norway – made for hydropower" is overlaid in white, sans-serif font across the middle of the image.

# Norway – made for hydropower