

ENERGY TECHNOLOGY PERSPECTIVES 2010:

ABUNDANT OPPORTUNITIES AND GREAT CHALLENGES

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Statkraft
PURE ENERGY



**INVESTMENTS OF USD 4 000 BN
IN RENEWABLE ENERGY NEEDED BY 2030**

**COMPANIES WILL NEED TO MOBILISE
MASSIVE AMOUNTS OF CAPITAL AND COMPETENCE**

PURE ENERGY TO THE WORLD

NR. **1** IN RENEWABLES IN EUROPE

90% RENEWABLE ENERGY

264 POWER STATIONS AND DISTRICT HEATING PLANTS

35% OF NORWEGIAN POWER PRODUCTION

3400 EMPLOYEES.. **...IN MORE THAN 20** COUNTRIES



FOCUSED GROWTH STRATEGY



Flexible European generation and market operations



International hydro power



Wind power



District heating



Regional companies

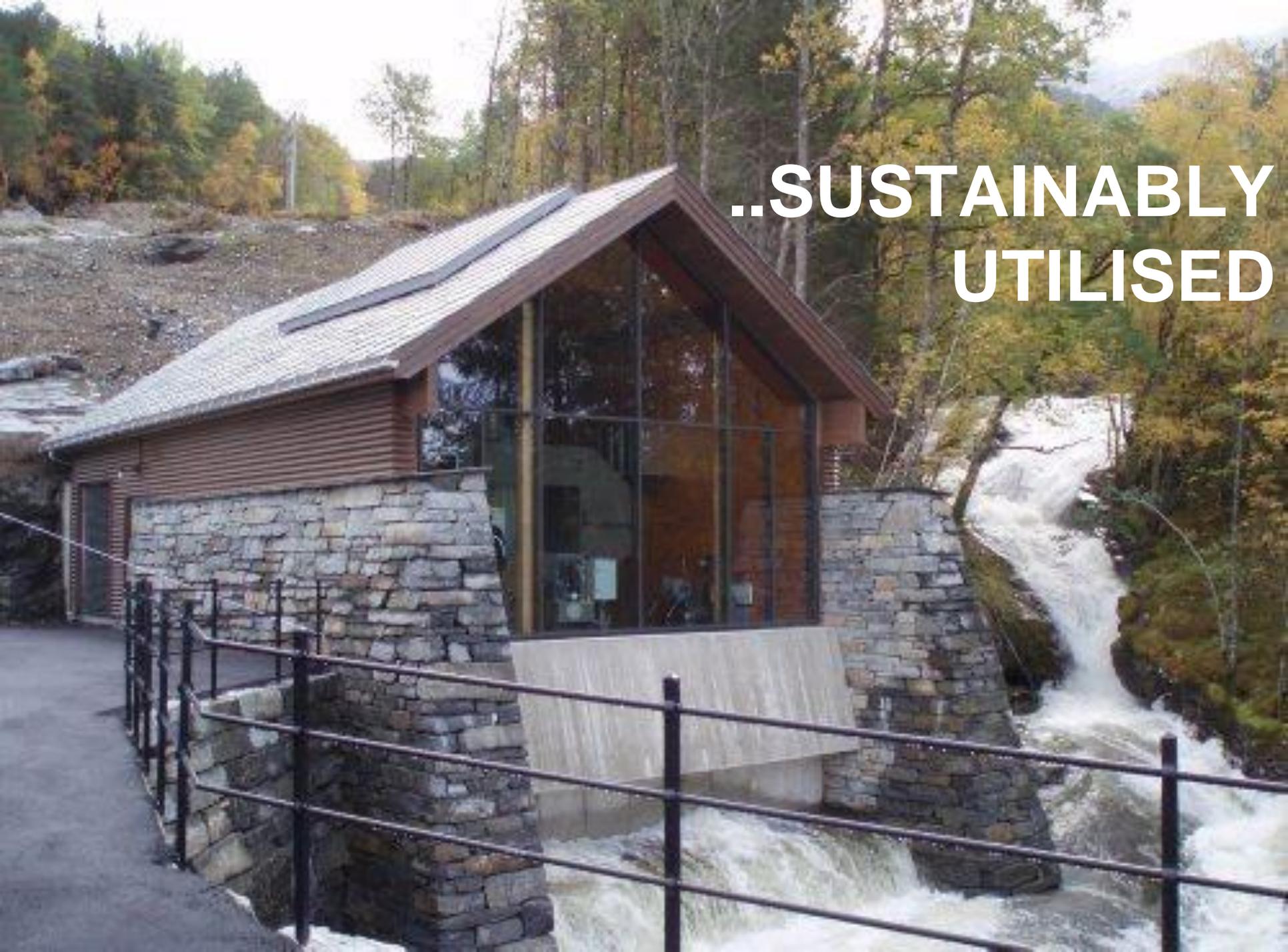
ABUNDANT RESOURCES

Hydropower potential

Hydropower today

60%

of current global
power supply

A modern building with a stone base and large glass windows, situated next to a waterfall in a forested area. The building has a gabled roof and is surrounded by trees with autumn foliage. A black metal railing is in the foreground, and a paved area is visible on the left. The text '..SUSTAINABLY UTILISED' is overlaid in white on the right side of the image.

**..SUSTAINABLY
UTILISED**



WIND POWER WILL BE A KEY DRIVER OF NEW CAPACITY:

- Available resource**
- Available technology**
- Strong growth**



NORWAY: BATTERY OF EUROPE

- Intermittent power needs balancing
- Storage technologies immature, except hydro reservoirs
- Need for more interconnectors and integrated markets

TECHNOLOGY DEVELOPMENT

- > Solar PV
- > Solar CSP
- > Tidal
- > Wave
- > Osmotic



World's first
osmotic power
prototype opened
in 2009

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- **Massive amounts of capital and competence needed**
 - **Abundant renewable resources available – but cost reductions needed in new renewables**
 - **Strong knowledge base in Norway to play key role in international development of renewables**