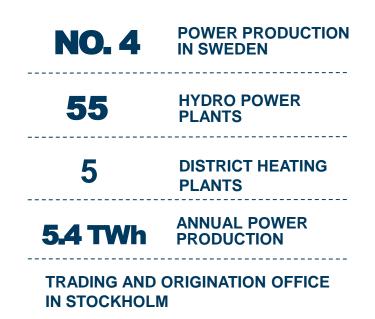
# NORDIC HYDROPOWER – A RECHARGEABLE BATTERY FOR EUROPE?

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## **STATKRAFT IN SWEDEN**







## **STRATEGY**



#### Flexible generation and market operations

•Hydropower and gas-fired power in North West Europe (incl. France), and small-scale hydro in Norway

•Energy management and market operations



#### International hydropower

Hydropower development in Turkey and AlbaniaSN Power in South America and Asia



#### Wind power

•Onshore wind power in Norway and Sweden, consolidate UK portfolio

•Offshore wind power in UK, incl. Dogger Bank to concession



#### **District heating**





#### **Regional companies**

## **STATKRAFT'S WIND POWER PLANS**

#### -> NORWAY

- In operation: 245 MW
- Under development: ~2500 MW (Statkraft Agder Energi Vind)

#### -> THE UK

- In operation: 23 MW
- Under construction: 317 MW (50%)
- Under development: ~9000 MW (25%) (Industrial partnership)

#### -> SWEDEN

- Under construction: 10 MW
- Under development: ~1700 MW (Industrial partnership)

### STRONG GROWTH IN FLUCTUATING ENERGY SOURCES...

	2009	2020
Wind	76.000 MW	180 – 230.000 MW
PV	16.000 MW	150.000 MW

Germany	2009	2020
Wind	26.000 MW	46.000 MW
PV	10.000 MW	52.000 MW



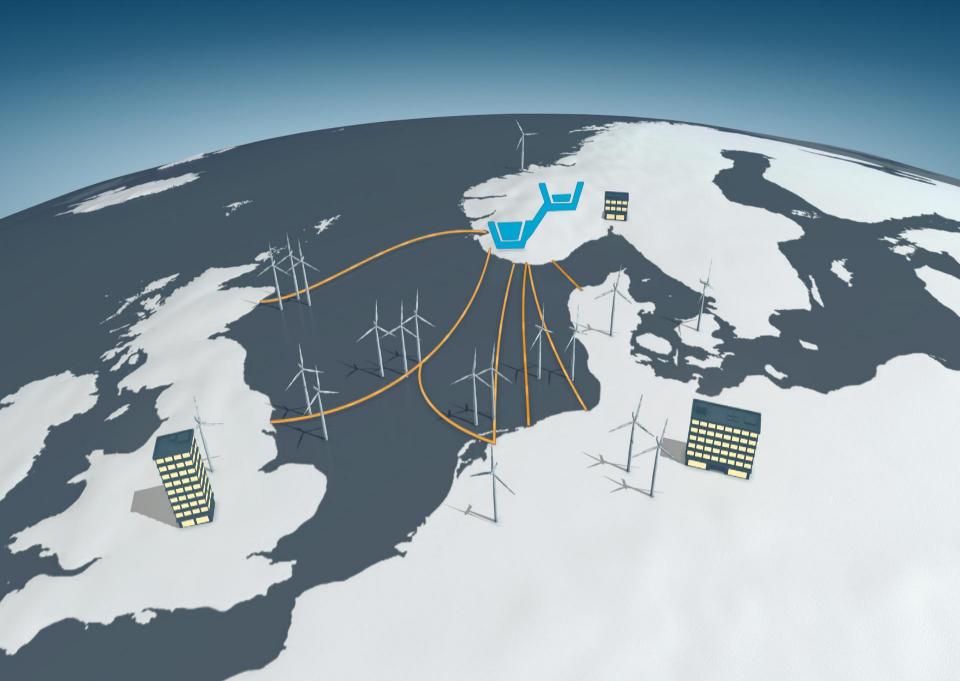
Sources: EurObservEr,;European Commission EREC; EWEA, EPIA

## ...THAT NEEDS BALANCING

#### WIND POWER PRODUCTION, GERMANY, OCT 2009



# NORDIC HYDROPOWER ARECHARGEABLE BAILERY FOR EUROPE?



## **SUMMING UP**

- Balancing large scale integration of fluctuating wind and solar power will be a major challenge in Europe
- Further development of flexible hydropower could be a part of the solution
- To succeed, public acceptance in the Nordic Region and Europe is crucial..
- ..and sufficient development of interconnections must be facilitated



