### New business models in the energy sector

Pål Brun, Nordic Sustainable Ventures, 24. Mai 2016

#### **Example of business model innovation:**

Decentralised solar with third-party financing and zero-money down



Perentage of solar installs with third party ownersip

Source: APS, New Jersey Clean Energy Program, BPU, Goldman Sachs Global Investment Research.





Administrerende direktør Andreas Thorheim i Otovo. Foto: Per Ståle Bugjerde

### Solcelle-gründere fikk 800 henvendelser på fem dager

En rekke profilerte investorer bruker nå tilsammen syv millioner kroner på å kjøpe seg inn i Otovo - to uker etter oppstart.





### Why don't you have solar panels on your roof?







## The energy company of the future – distributed – digital – disruptive



- Signs up for solar subscription contract
- Puts roof at disposal
- Enjoys clean energy at a fixed low price

- Plans, installs and owns solar panels on roof
- · Services and maintains
- Upsells battery, smart home, app, and additional services

- Provides the necessary top-up power (winter/night)
- · Sells to homes with digital meters
- Offers new, smart, simple price plans

# So the job is to simplify and sell solar while cutting operations and finance cost



### Is it worth it? Yes, Nordic & Baltic power market is valuable and about to change

#### Target market (dark area)

70 million population 110.000.000.000 usd/yr. 50% renewable energy

→50.000.000 usd/yr. Clean energy opportunity





Big change in power system

Centralized value chain with grid supplement

Analog monthly one way metering New power model



Distributed power with grid supplement

Digital real time two way metering

# The region has plentiful solar resources, yet almost no solar panels



Sun power is on par with Germany (kWh/kWp)

#### Solar penetration (Watts/capita)



# That is about to change now, as solar reaches competitiveness with grid



- Big grid investments ahead
- · Cost of digitalization
- More international trade cancels out low Nordic price
- Decommissioning of plants
- · Increased taxes and tariffs

- Global fall in module
  prices
- Local steep reductions in soft costs

## Aim: To build the energy company of the future