



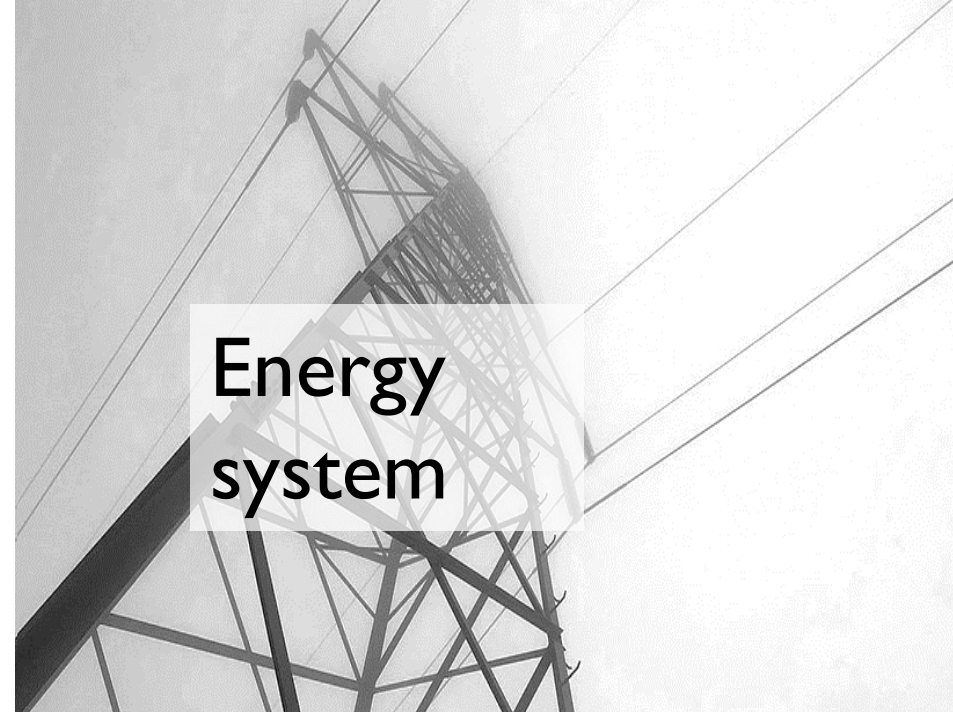
NVE

TIMES OF TRANSITION

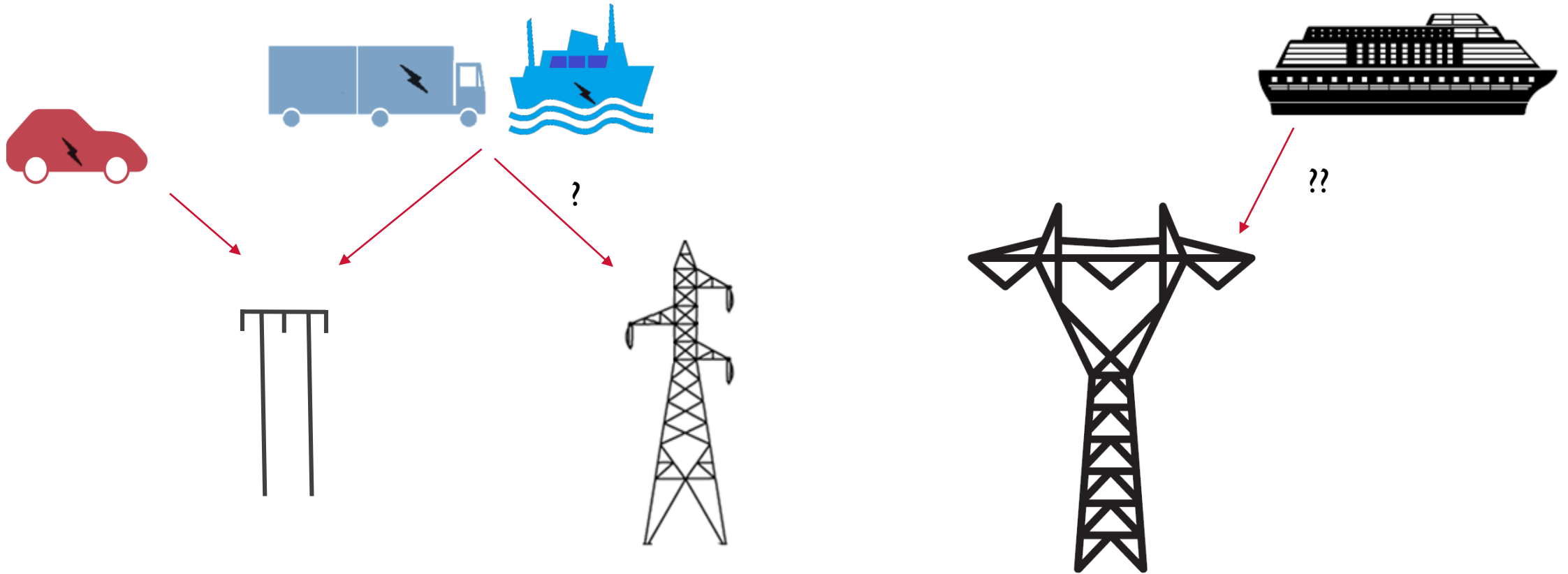
Hydropwer's Role in the New Energy System

Anne Vera Skrivarhaug
Director

Energy Departement
NVE



The Power System is Changing Fast – *new customers*



New large consumers

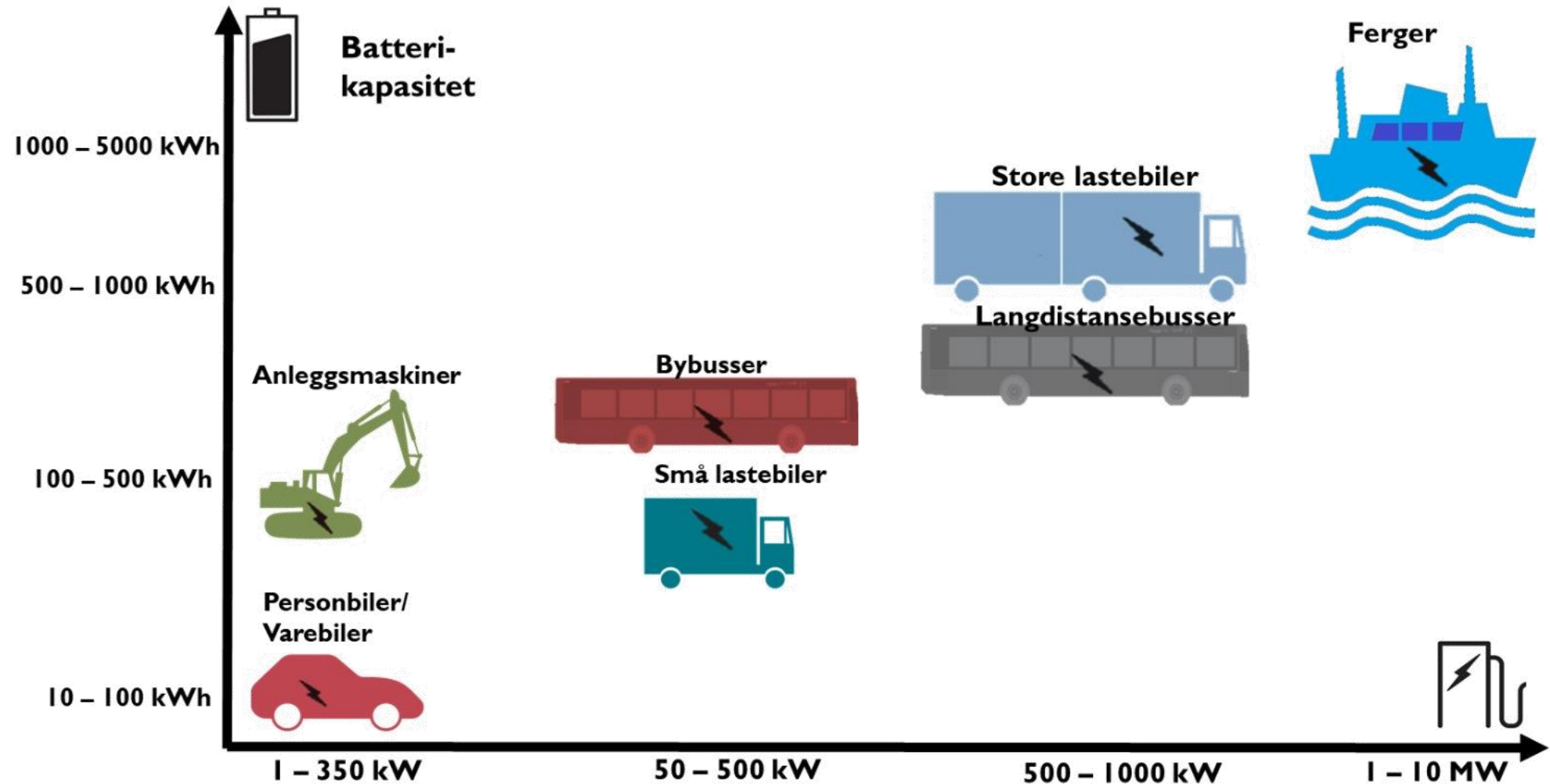
Data centers

Hydrogen production

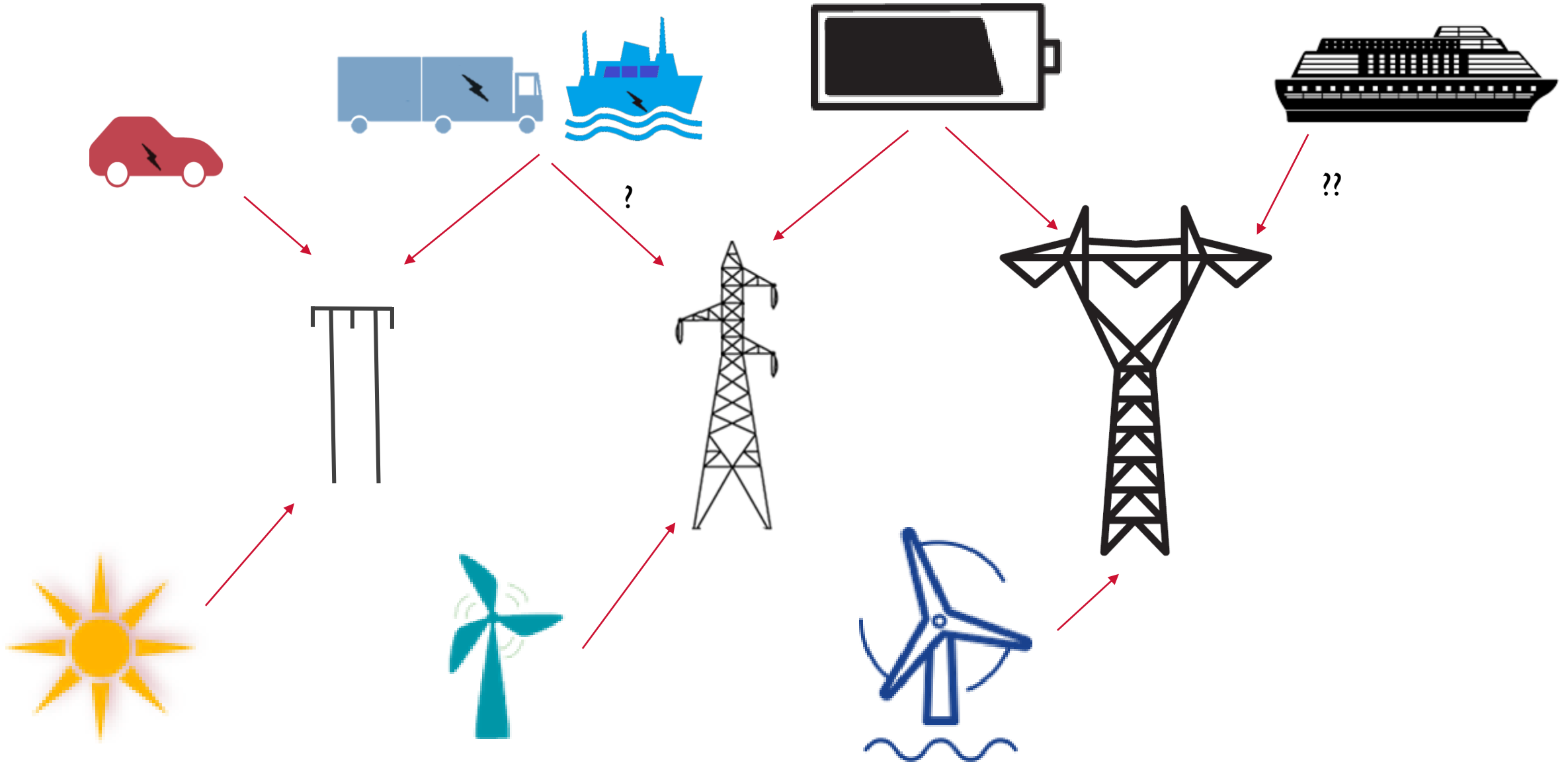
Battery factories

Offshore electrification

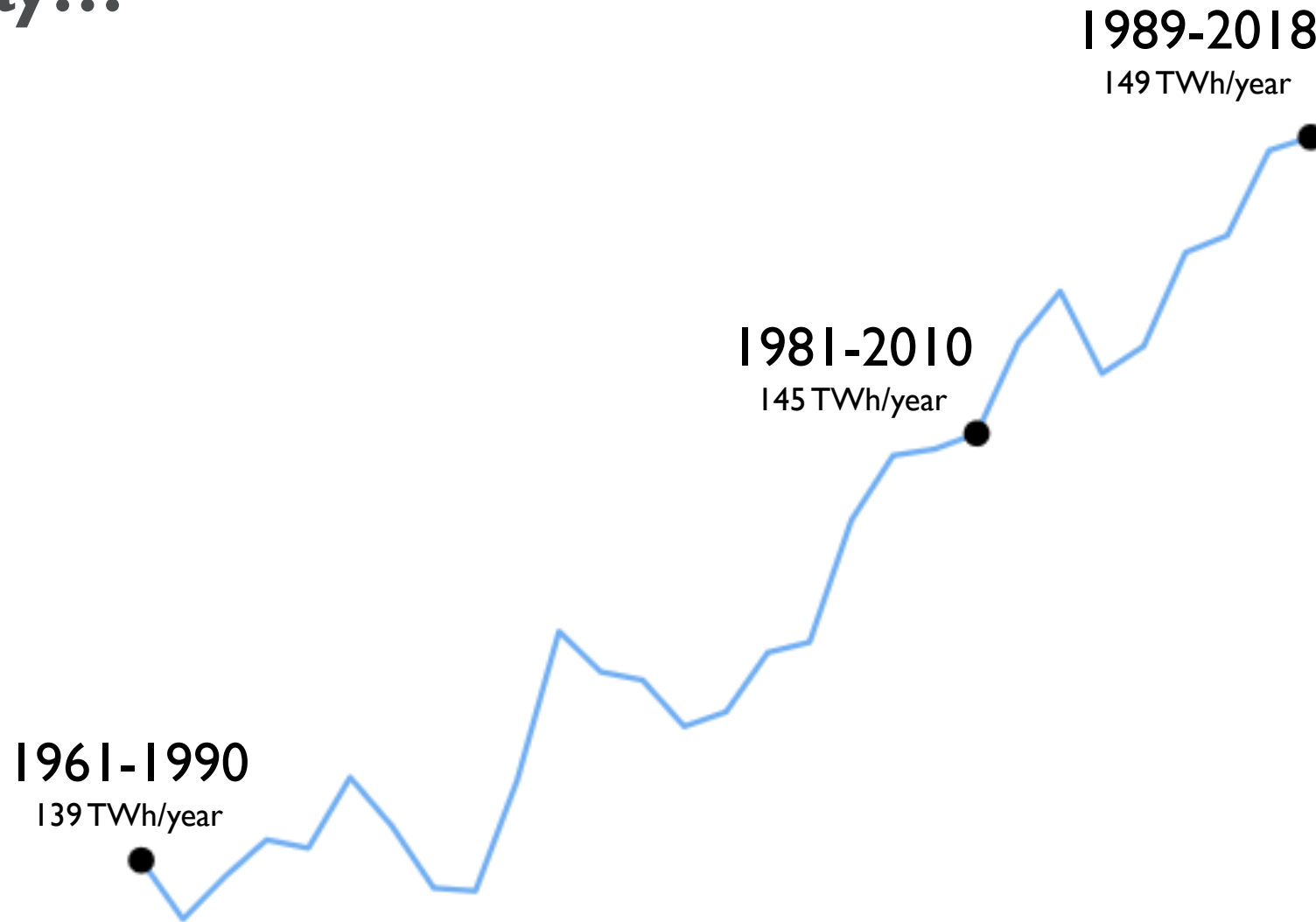
New Consumers challenge the system's capacity



The Power System is Changing Fast – *new production*



More Inflow Increases Hydropower Production in Norway...





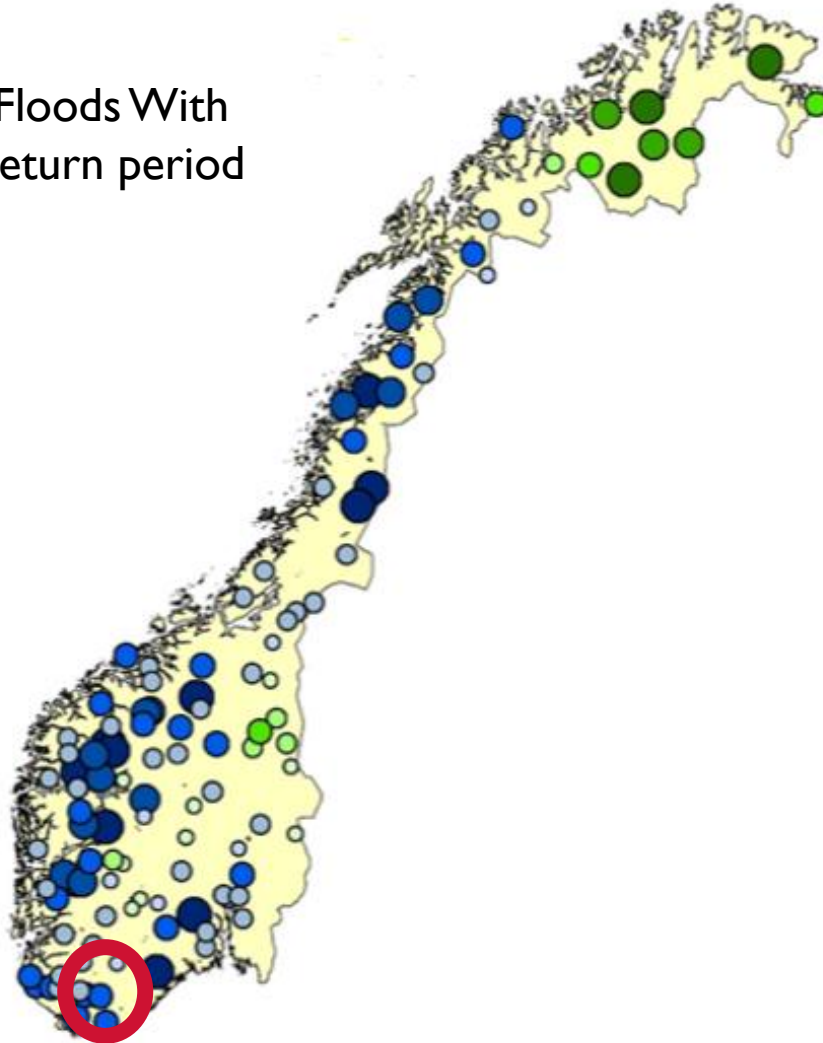
... but also Give more Frequent and Severe Flood Incidents





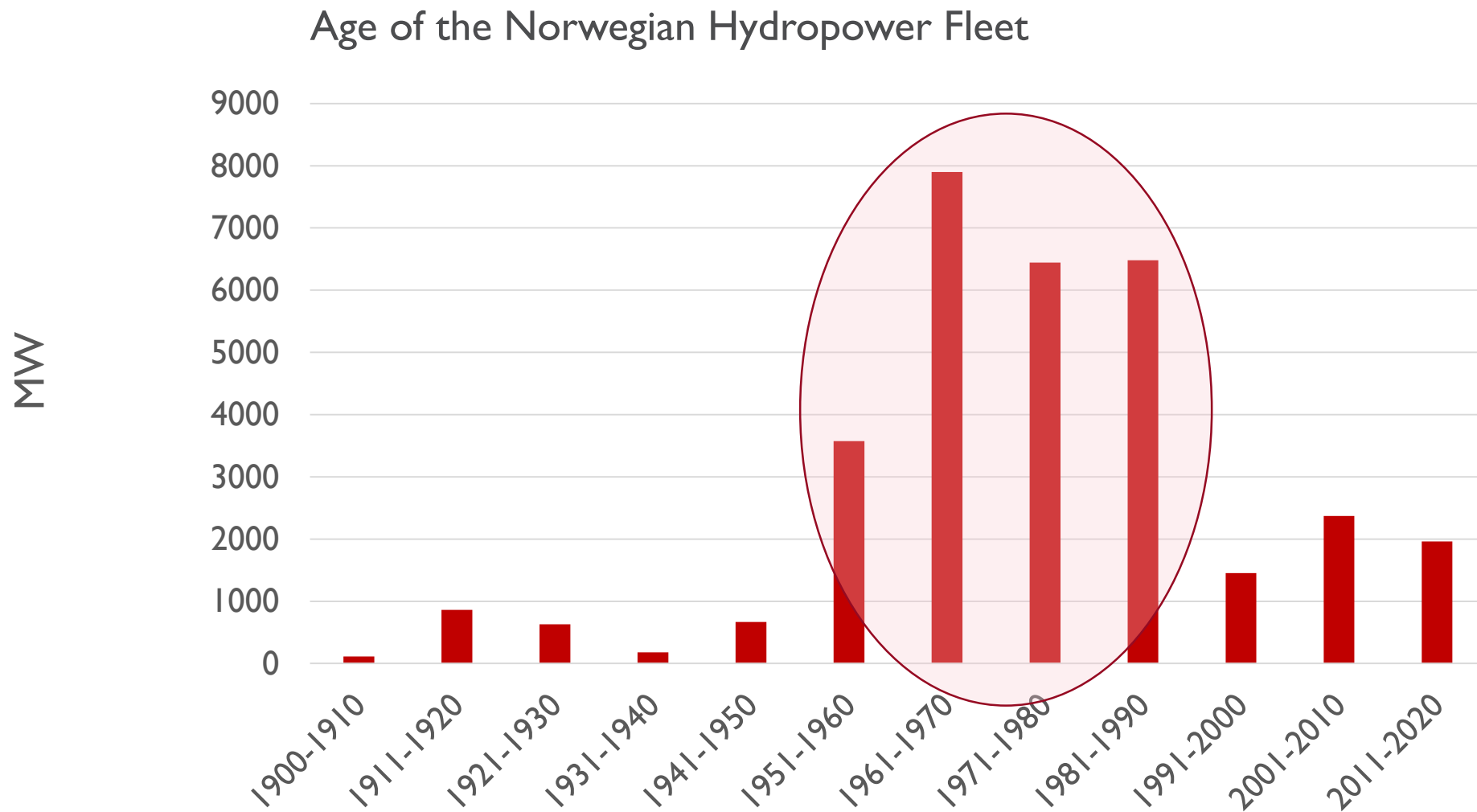
... but also Give more Frequent and Severe Flood Incidents

Change in Floods With
200 Years return period





Time for new Conditions and new Investments in Existing Hydropower





Innovative Hydropower Technology



How can the Research Community Contribute?

Innovative Hydropower Technology

Market Design & Investment Decisions

How can the Research Community Contribute?

Innovative Hydropower
Technology

Market Design &
Investment Decisions

The Value of
Hydropower Services

How can the Research Community Contribute?

**Innovative
Hydropower
Technology**

**Market Design &
Investment
Decisions**

**Better
Modelling
Tools**

**The Value of
Hydropower
Services**

339	51	3	1
362	61	3	2
707	3	5	4
688	4	0	3
265	6	1	5
19	83	8	5
12	59	393	

Thank you for your attention