

## Goals and ambitions

#### Denmark adopts climate law to cut emissions 70% by 2030 Target Framework Area Published on 06/12/2019, 11:15pm New law binds Denmark to international climate process, including climate finance to developing countries EU: 2020 Greenhouse 20% targets reduction gas between 2005-2020 30% by 2020 Renewable energy (total consumption) 10% by 2020 Renewable energy (transport) 12. august 2020 Side 2

# Goals and ambitions

Denmark adopts climate law to cut					
emissions 70% by 2030					
Published on 06/12/2019, 11:15pm			Framework	Area	Target
New law binds Denmark to international climate process, including climate finance to developing countries					
Framework	Area	Target	EU: 2020 targets	Greenhouse gas	20% reduction between
EU: 2030 targets	Power plants/	43%			2005-2020
	oil/ gas – sector goal	reduction		Renewable energy (total consumption)	30% by 2020
	Buildings, agriculture, transport	30%			
				Renewable	10% by 2020
	Renewable energy	27% of total energy consumption		(transport)	
				12. augu	ust 2020 Side 3

#### Data is increasing demand...



#### ..And there is a significant potential for utilising data

Tools:

- District heating, HPs etc.
- Efficient and flexible energy use
- Balancing demand and supply
- Data and digitalisation



#### The role of the DEA

- The DEA is trying to
  - Develop and promote business-cases, methods and tools for utilising data to create a foundation for energy efficiency and flexible energy
  - Provide data in a high quality to consumers, suppliers and businesses
  - Make data accessible
  - Publish data regarding energy use



#### Preliminary findings -projects

DEA has provided financial support to a number of projects developing business-cases, methods etc.

- Volunteers save 4.2 mio. DKK through collaborations with energy consultants
- Significant potential for peak-shaving using building and consumption data
- Automatic tuning of building heating saves 10% in larger buildings
- Data driven indoor climate controls saves up to 15%
- Energy consumption awareness saves 15% electricity and 5% heating in kindergartens



### Energy atlas – the concept



Energistyrelsen



#### Preliminary findings – The legal framework

- DEA is investigating how to carry out the data collection (One register <-> multiple registers <-> other)
- DEA is investigating possibilites within existing legislation
- Data can be published in an Energy atlas (Within the rules of GDPR etc.)
  - Grid size yet to be determined
  - Data governance yet to be determined



#### **Preliminary findings** – The use-cases DEA has carried out interviews with municipalities and businesses

- Data driven analysis of existing buildings
- Intelligent buildings and operations
- Customer counselling
- Smart energy grid
- Benchmarking





12. august 2020 Side 11

#### What are the problems we aim to solve

- The challenge of collecting and using existing data
- The data quality has historically been insufficient for data driven solutions
- Data is registered in a variety of formats and standards
- Guidelines for data use in relation to GDPR







12. august 2020 Side 13



# Questions



Innovation Fund Denmark

