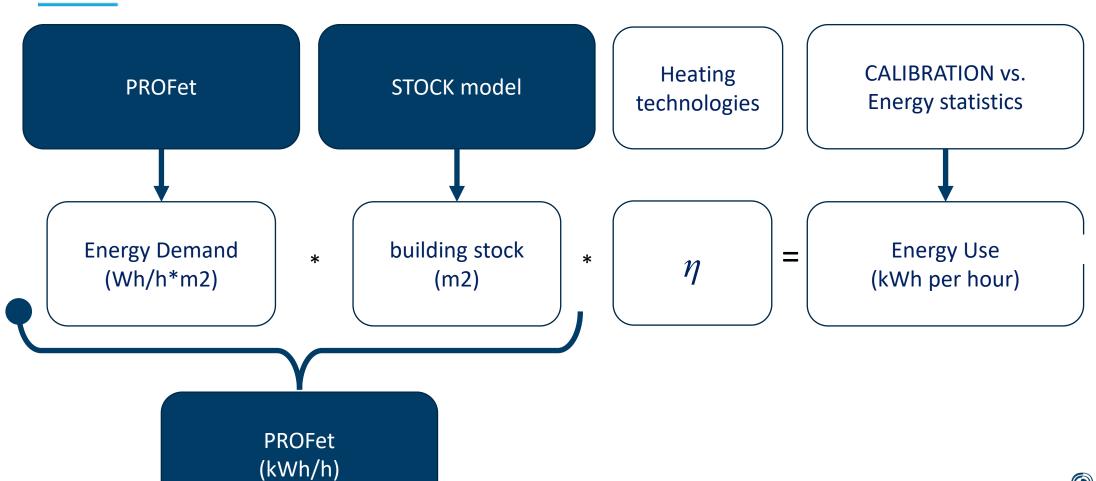
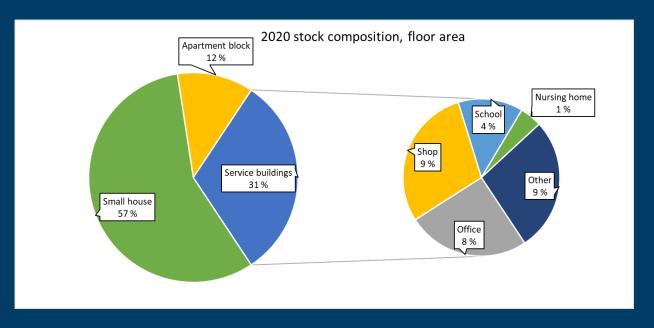


### Methodology

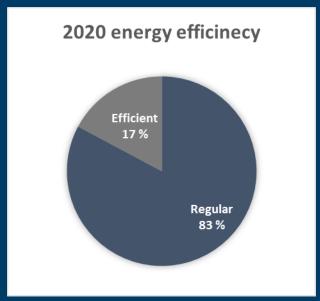




## Building stock

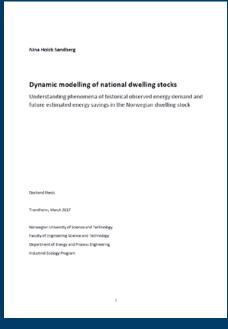


- 2020: 386 million m2
- Small house, apartment block, service buildings
- 2020-2050
  - New: efficient or very efficient
  - Renovated: regular or efficient
  - Unchanged: regular



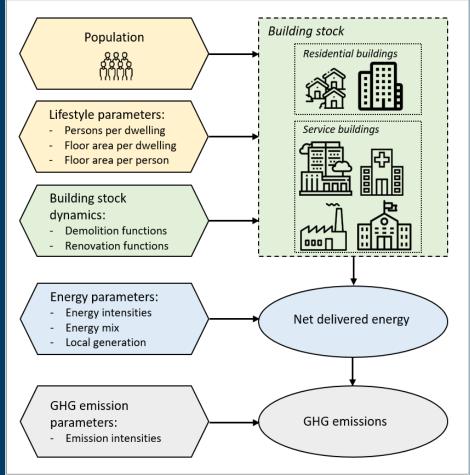


## Building stock model: RE-BUILDS









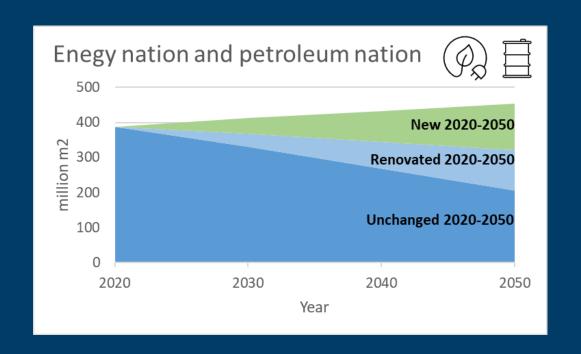


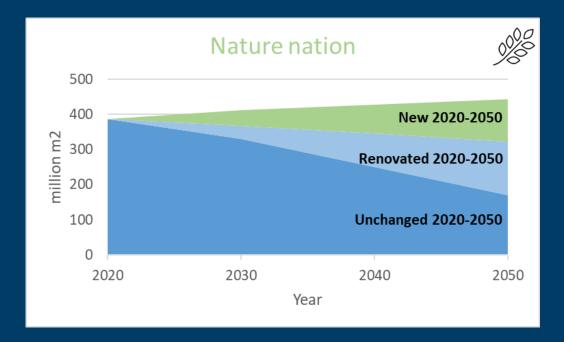
## Building stock Storyline assumptions 2020-2050

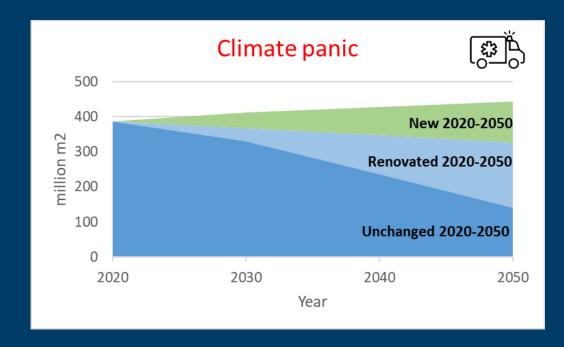
Storyline assumptions	Energy nation		Petroleum nation		Nature nation		Climate panic	
	2020-2029	2030-2050	2020-2029	2030-2050	2020-2029	2030-2050	2020-2029	2030-2050
Share of new being Efficient	100.0 %	0.0 %	100.0 %	100.0 %	50.0 %	0.0 %	100.0 %	0.0 %
Share of new being Very efficient	0.0 %	100.0 %	0.0 %	0.0 %	50.0 %	100.0 %	0.0 %	100.0 %
Share of renovated being Regular after renovation	80.0 %	<b>67.0</b> %	80.0%	80.0 %	50.0 %	50.0 %	80.0%	0.0 %
Share of renovated being Efficient after renovation	20.0 %	33.0 %	20.0 %	20.0 %	50.0 %	50.0 %	20.0 %	100.0 %
Renovation rate, service buildings	1.3 %	1.5 %	1.3 %	1.5 %	1.3 %	2.1 %	1.3 %	2.6 %
Renovation rate with energy-efficienty rate, service building	0.3 %	0.5 %	0.3 %	0.3 %	0.7 %	1.0 %	0.3 %	2.6%
Demolition rate, service buildings	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	0.4 %
Construction rate, service buildings	1.1 %	0.9 %	1.1 %	0.9 %	1.1 %	0.9 %	1.1 %	0.8 %
Renovation rate, dwelling stock	0.9 %	0.9 %	0.9 %	0.9 %	0.9 %	1.5 %	0.9 %	2.0 %
Renovation with energy efficiency rate, dwelling stock	0.2 %	0.3 %	0.2 %	0.2 %	0.5 %	0.8 %	0.2 %	2.0 %
Demolition rate, dwelling stock	0.6 %	0.7 %	0.6 %	0.7 %	0.6 %	0.7 %	0.6 %	0.7 %
Construction rate, dwelling stock	1.4 %	1.4 %	1.4 %	1.4 %	1.4 %	1.4 %	1.4 %	1.4 %
Average floor area per person, dwelling stock (m2)	50.7	52.1	50.7	52.1	50.6	51.2	50.7	51.4



# Building stock development 2020-2050

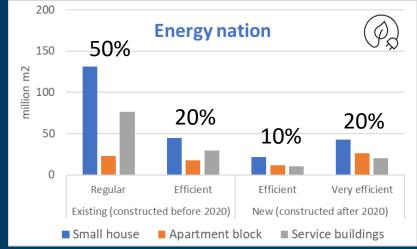


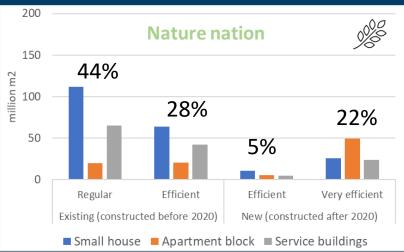


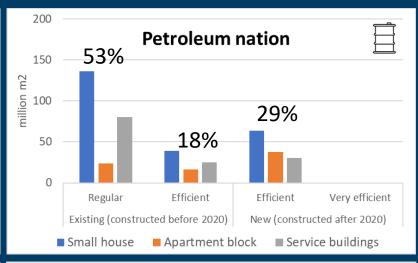


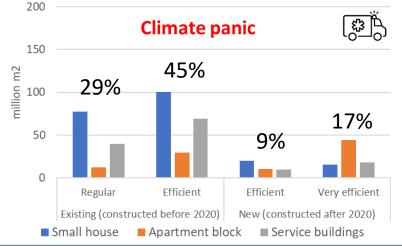
## Energy efficiency (m<sup>2</sup>)









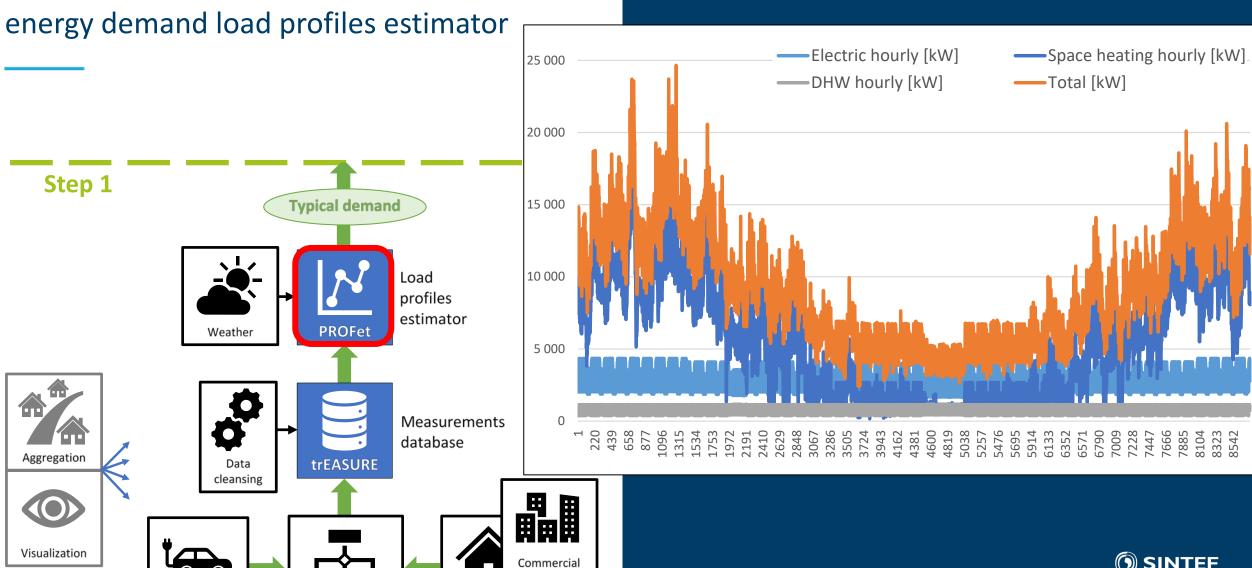


### **PROFet**

Electric Vehicle

Measurements

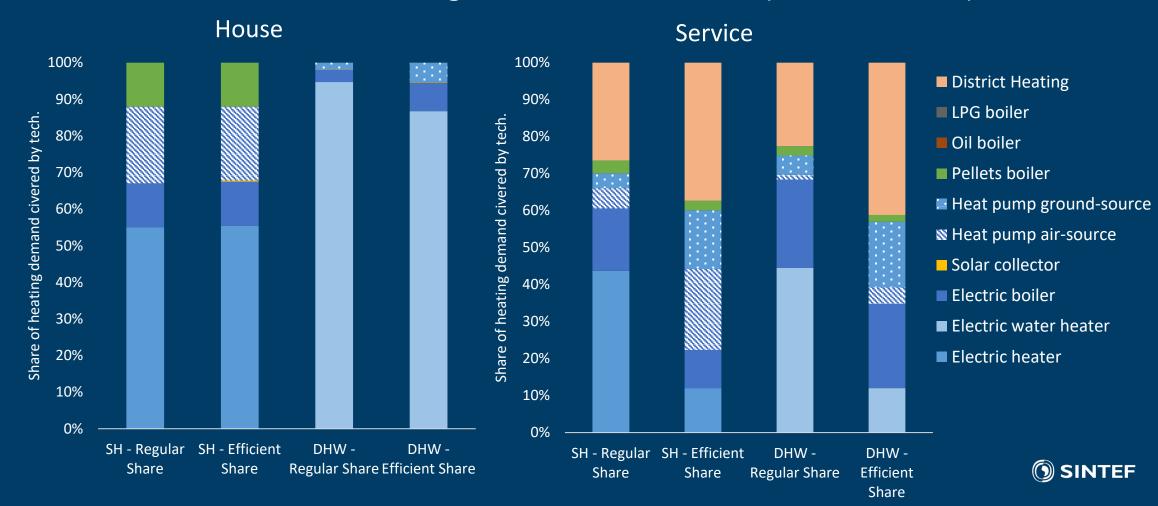
Residential



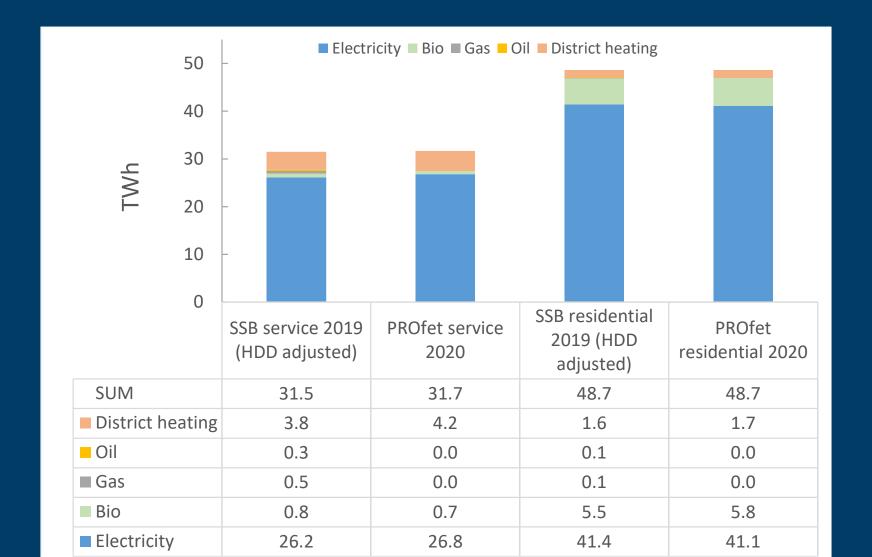


## Heating technologies 2020

• Sources: Based on "Potensial og Barrierestudien 2021" (SINTEF, ENOVA)

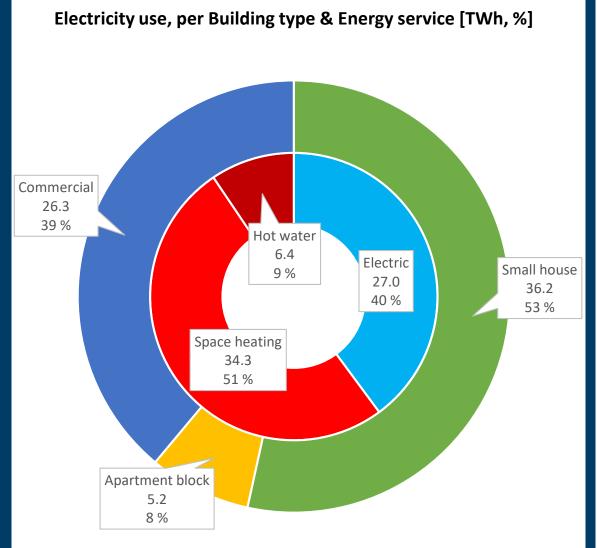


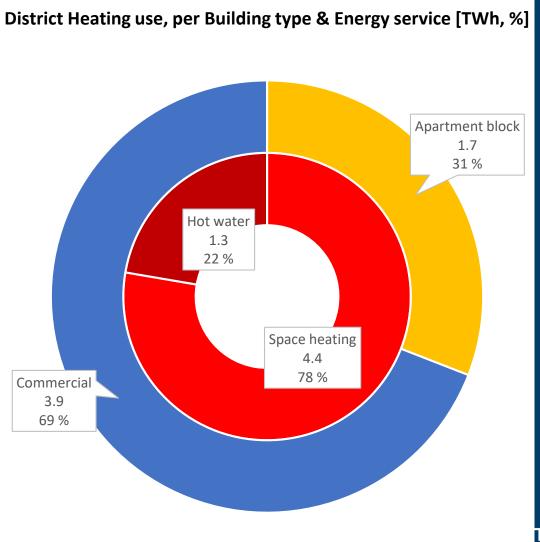
## Calibration Results in year 2020



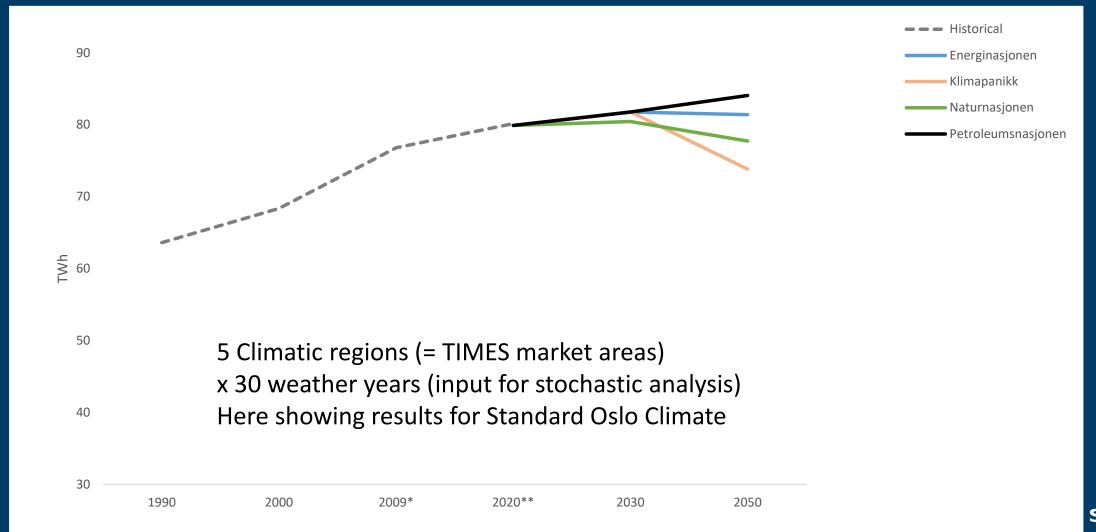


## Energy use in 2020

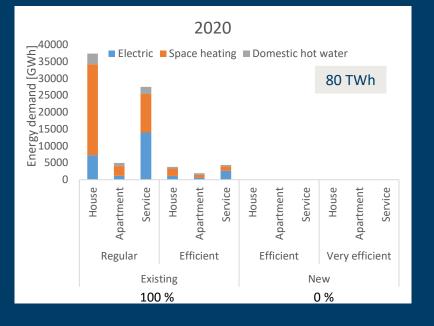


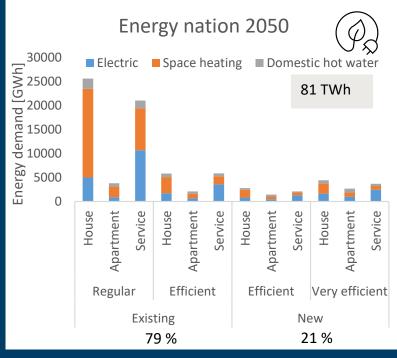


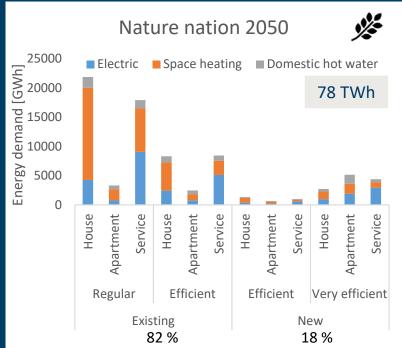
## Building stock Energy demand development in Storylines

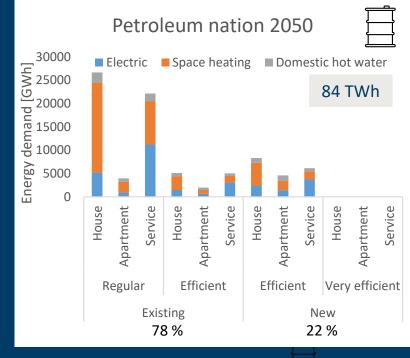


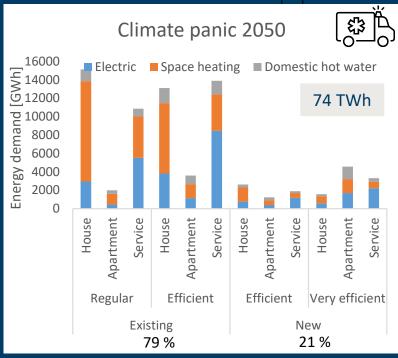
#### Total energy demand















Teknologi for et bedre samfunn