

National demonstration project μ CHP based on Danish fuel cell stacks





- Is the third largest energy company in Denmark
- Approx. 250.000 installations
- Approx. 650 employees
- Approx. 20.000 km power network
- Sale: 3,1 mia. kWh in 2006
- Net turnover 1,9 billion. kr. in 2006



4 central goals

energi

- Reduction of the transmission system scale with 220 mil. D. kr. a year
- Completion of the cable laying at the end of 2009
- Access to broadband for everyone within 10 years (2015)
- Support to regional development projects with approx. 30 mil. D. kr. a year

+ 250.000 distant reading of meters in may 2008



Support to regional development projects

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SYD ENERGI supports regional development projects with approx 30 mil. D. kr. a year.

- The following projects are being supported
 - Development of energi saving areas
 - Energi research and development of alternative energi sources
 - Development of electronic / digital communication
 - Nature projects etc. in our supplier area



Danish Micro Combined Heat & Power

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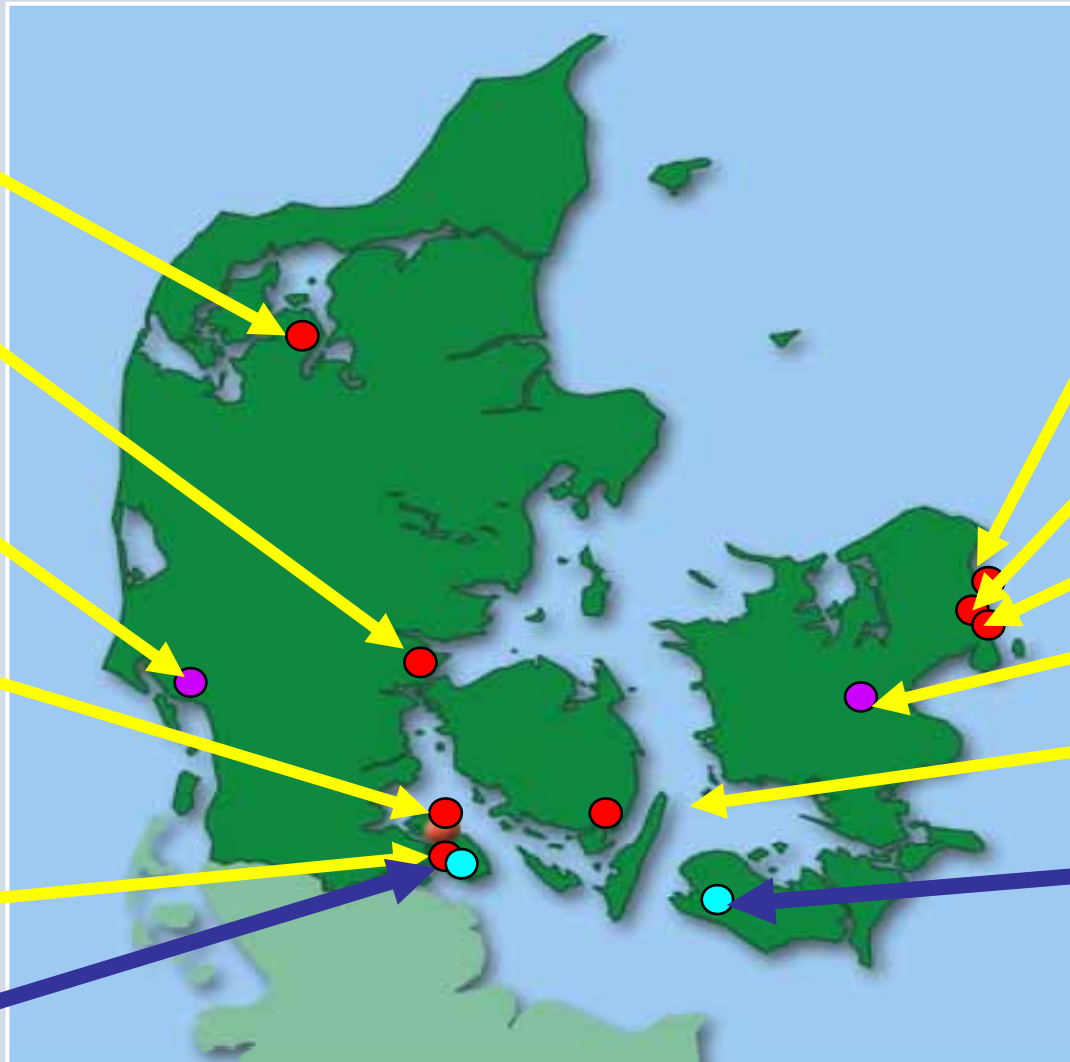


Partners in the project

energi



Sønderborg



TOPSOE FUEL CELL

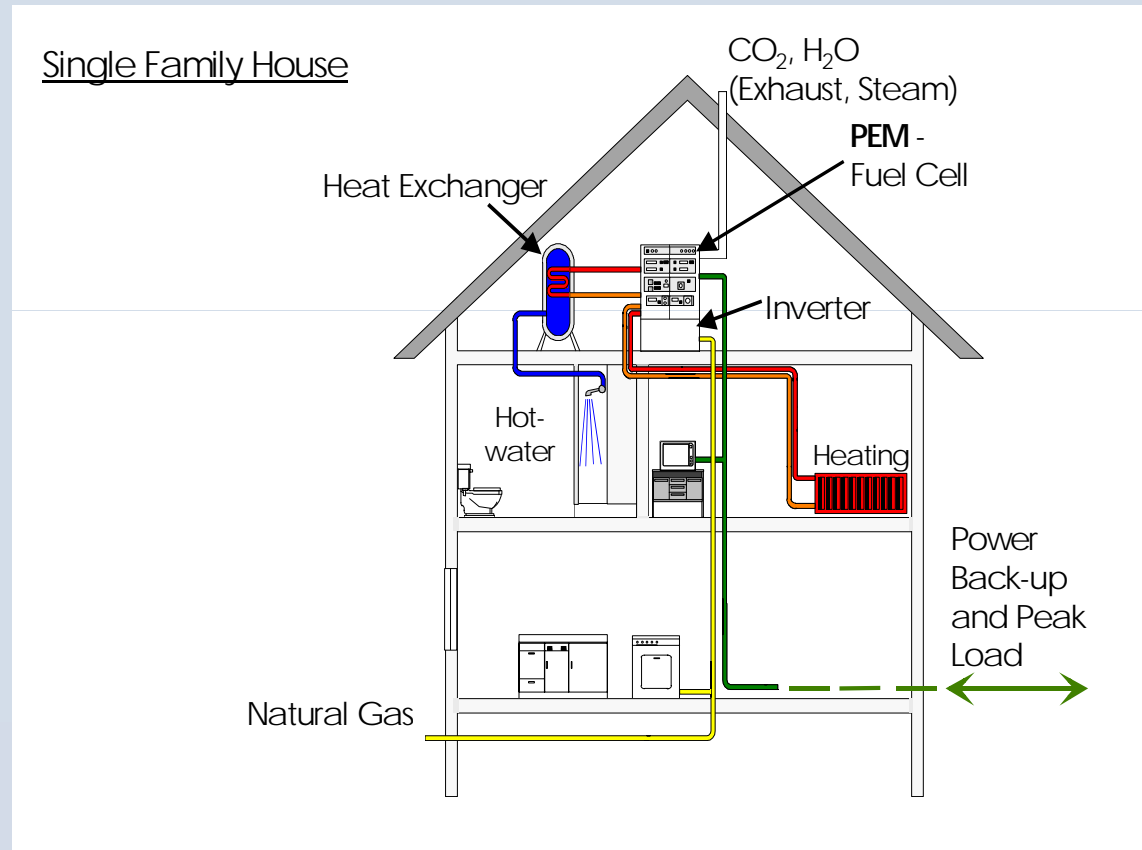


Lolland



Installation in single family house

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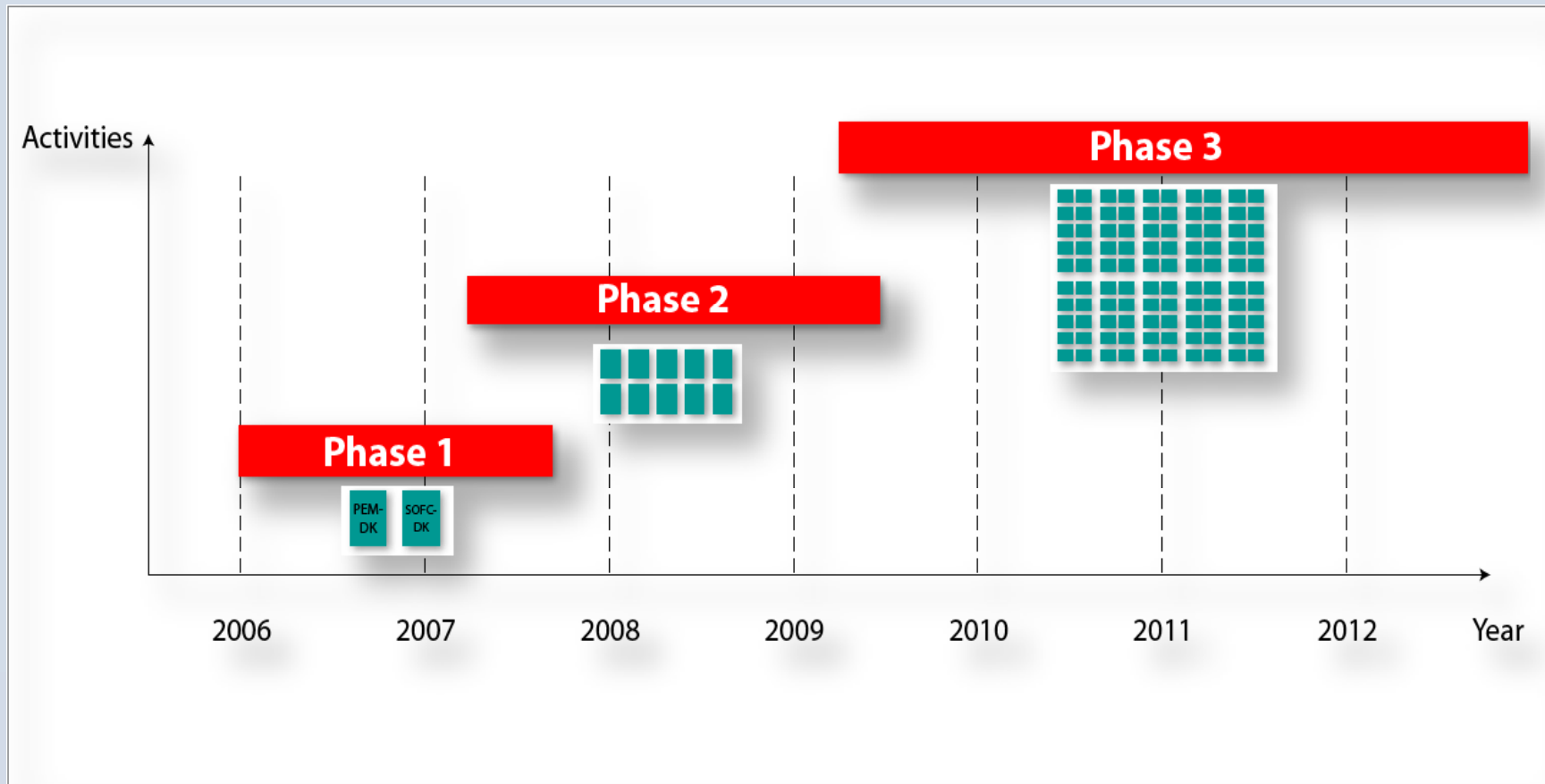
- Support from the ministry of climate and energy of 50 mil. D. kr.
- The consortiums own financial contribution of 100 mil. D. kr.
- The consortium considers to apply for further external financial support for the last of the projects three phases



- To increase the efficiency in the energy supply at home and abroad
- To reduce the CO₂ emission from residence
- To create growth in the danish energy industry

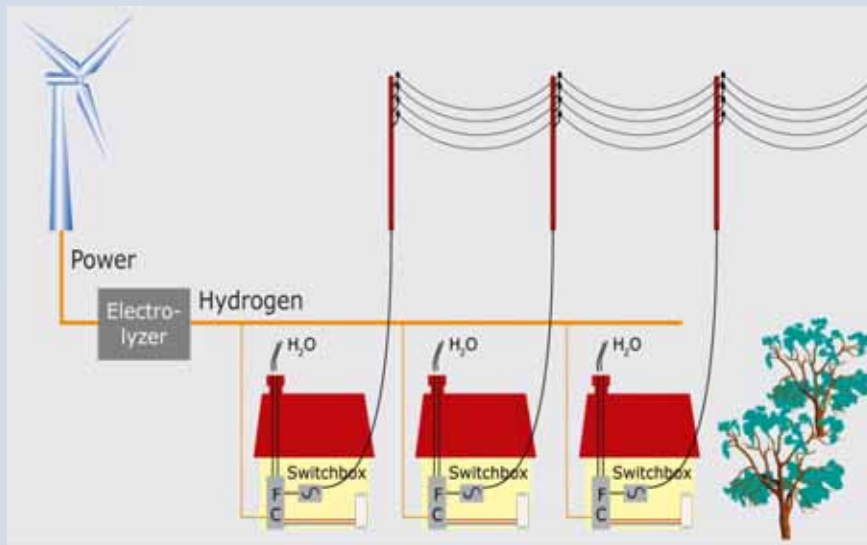


Demonstration phases



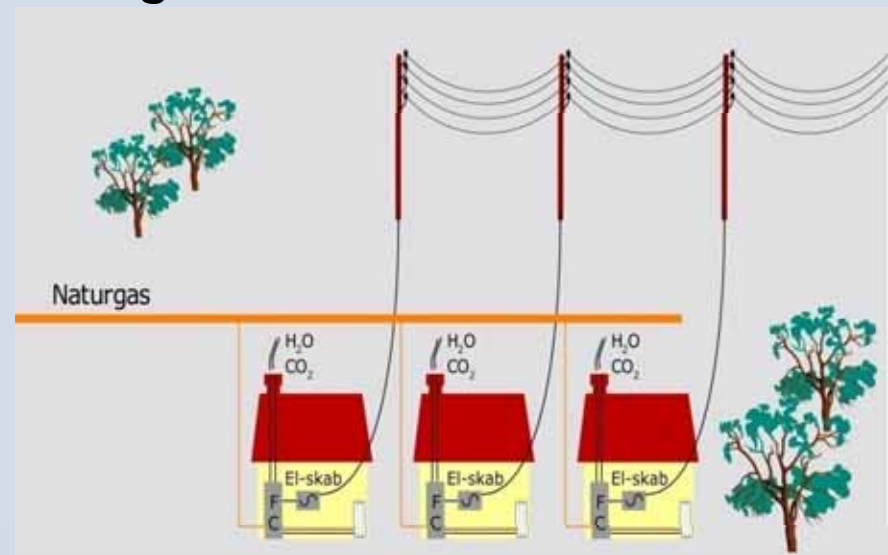
Lolland:

Micropowerplant based on hydrogen from wind produced power



Sønderborg:

Micropowerplant with reformer fuelled with natural gas



Why is SYD ENERGI participating in the project

- 30 mil. D. Kr. to support regional development projects
- Furtherance of new energy technology
- Test of micro power heat system at the end users
- Major concentration of windmills in our part of the country
- Potential new area of business



Selected installation location: HT PEM / SOFC

Bosses Blikkenslagerforretning: HT PEM



Als Bilindretning: HT PEM



Kellmanns VVS: HT PEM



Enervision: SOFC



- **Thank you for your attention!**



Questions?