

ENCOURAGE

Embedded iNtelligent COntrols for bUIldings with Renewable generAtion and storaGE

PROJECT description

The ENCOURAGE project aims to develop embedded intelligence and integration technologies that will directly optimise energy use in buildings and enable active participation in the future smart grid environment.

RELEVANCE to call

Answering the Call 2010, ENCOURAGE contributes to improved energy efficiency in buildings as well as improved comfort and security. A platform reference architecture for an intelligent building gateway will be developed.

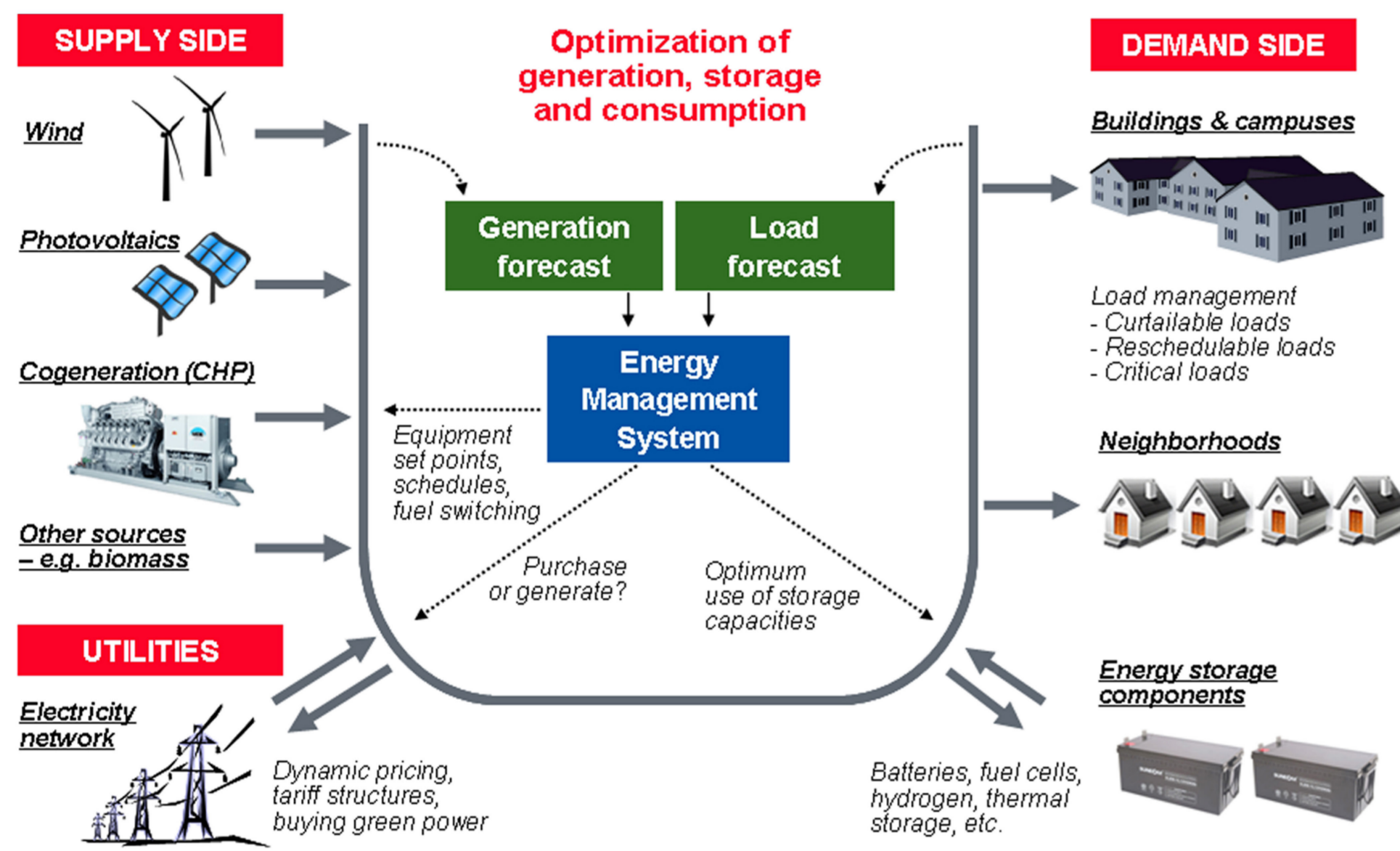
MARKET innovation

Results from the ENCOURAGE project will enable innovative products and services within building automation, energy storage devices, dynamic energy pricing and energy metering.

TECHNICAL innovation

ENCOURAGE develops

- > New supervisory control strategies that will be able to coordinate larger subsystems (Heating, Ventilation and Air Conditioning (HVAC), lighting, renewable energy generation, thermal storage, etc) and orchestrate operation of the numerous devices in such systems.
- > An intelligent gateway with embedded logic supporting inter-building energy exchange.
- > Novel virtual sub-metering technologies and event-based middleware applications that will support advanced monitoring and diagnostics concepts.



PROJECT COORDINATOR Arne Skou	START June 2011
INSTITUTION Aalborg University	DURATION 36 months
EMAIL ask@cs.aau.dk	TOTAL INVESTMENT € 6.3M
WEBSITE http://encourage-project.eu	PARTICIPATING ORGANISATIONS 11
	NUMBER OF COUNTRIES 5

