

Studier og
beslutningsstøtte som
fremmer et nytt og
bærekraftig
energisystem



Centre for Sustainable Energy Studies

www.censes.no

What is CenSES?

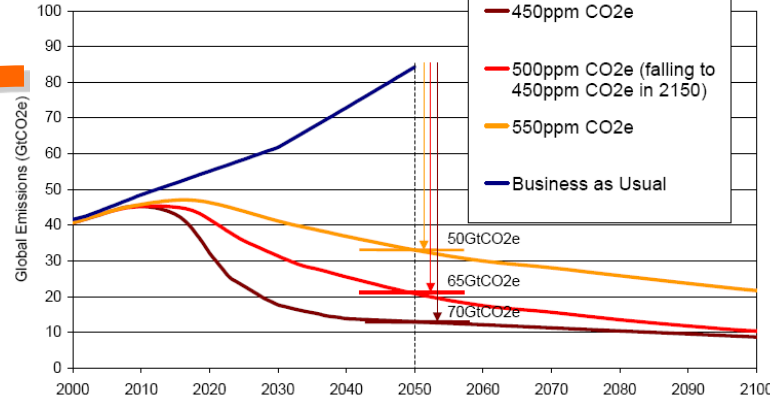
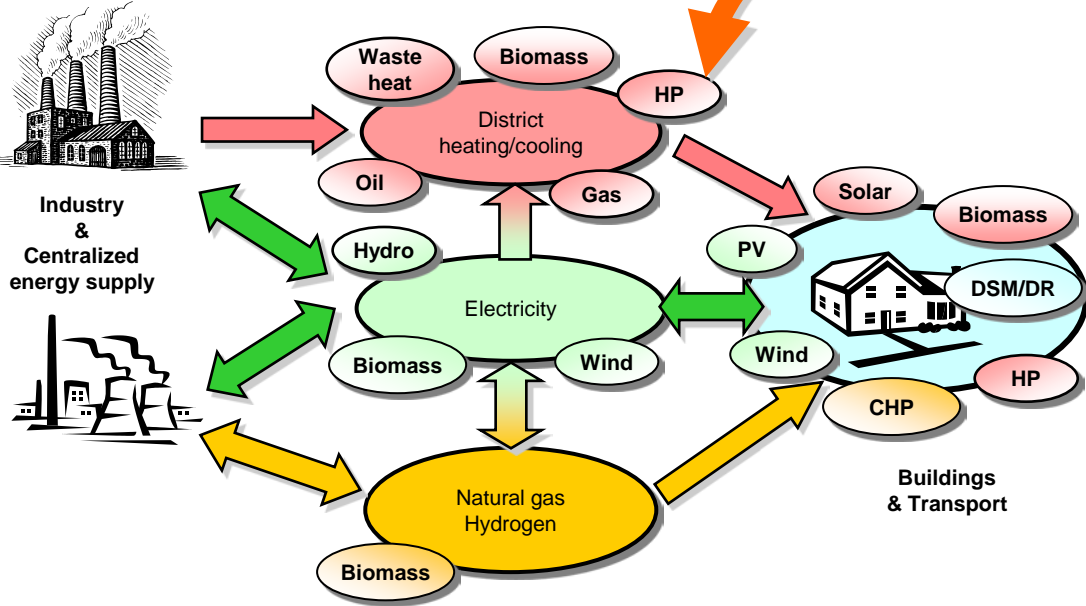
- Research centre focusing on improving the decision fundament for policy makers, companies and users based on and interdisciplinary studies of the energy system and energy strategy
- Built on strong research communities in Bergen, Oslo, Kjeller, Sogndal and Trondheim
- Competence within energy economy, sociology, industrial ecology, energy systems analyses, political science, industrial ecology, innovation studies, technology- and science studies.
- Over 60 professors and researchers work on projects attached to CenSES.
- CenSES seek close co-ordination and co-operation with the existing Norwegian Centers for environment-friendly energy

CenSES activities

CenSES will contribute to reflection and debate on the development of the future energy system and the low- emission society

- Research projects with support from the national research council, EU, public administration and commercial partners
- Particular focus on innovative activities with respect to dialogue with and dissemination to industrial and user partners.
- In 2010 we establish a PhD school on energy studies. (29 new students in 2009 and 2010)
- We plan to establish a strategic think tank including leaders from academia, government and industry.
- A yearly national conference organised in cooperation with the centre's partners.
- Workshops and seminar series

Global challenges Regional solutions



- Energy security of supply
- National emission obligations in accordance with international agreements
- Reduction of local and global environmental effect
- Development and export of environmentally friendly products, technology, and energy on a commercial basis

Examples of related research projects and topics

Innovation and internationalization

- Growth and internationalization processes in large energy companies
- Environmental friendly energy and international business opportunities
- Environmental issues, governance and energy production in the Arctic region
- PhD thesis on the interaction between public policy decisions and actual firm strategies and internationalization processes
- PhD thesis on energy companies entering new markets
- Maritime sector: CSR, environmental challenges and new opportunities in the context of innovation

Knowledge, learning, public acceptance

- Preparing for a rainy day? Configuring climate science for future society Climate knowledge on the road. Scientific knowledge, transdisciplinarity and the performance of expertise
- Coping with the threat of climate change: technological strategies and cultural responses
- Not in my nature? The controversies and politics of environmentalism and public planning in localization of wind farms
- Constructions of environmental planning processes – comparisons between localization of wind farms in Norway, Denmark and Scotland
- Developing energy policy
- Renewable strategies? Implementing and commercialising new renewable energy
- Development of export-oriented new and renewable industries in China and Norway
- Building markets, shaping policy? The role of economics in energy policy and energy use
- Paradoxes of design: ‘aesthetication’ as a barrier to sustainable development.
- E car: a strategy for electrification of road transport in Norway (+ EU)
- Scrutinizing the impact of ccs communication on the general and local public
- Policy for and from the hydrogen technology

Economic modelling and system optimization

- LinkS: Linking global and regional energy strategies : Utilizing local advantages when responding to international agreements and policy
- Ramona: Security of supply in the Norwegian natural gas value chain: Robust infrastructure development and operations
- Norways: Investing in a hydrogen infrastructure for the transport sector: How, where and when
- VENOGA: portfolio optimization for StatoilHydro
- IDON: Management of uncertainty in long term infrastructure investments (with MIT and StatoilHydro)
- Purelec: Real option analysis to study policy uncertainty
- Elcarbonrisk: Forecasting energy prices and carbon prices.
- Lab for computational economics and optimization: High performance Computing cluster (1200 processors)