

Renewable Energy Beyond 2020

June 7th - 8th, 2010  
Trondheim, Norway

# Renewable Energy Research Conference



More information, abstract submission and registration:  
[www.sffe.no/conference/](http://www.sffe.no/conference/)

**The Center for Renewable Energy** welcomes you to an international research conference on renewable energy technologies. The conference aims at gathering researchers and developers from the renewable energy sector as well as governmental organizations and NGOs.

The conference will consist of plenary sessions, panel discussion and scientific parallel sessions.

The conference will provide an extensive update on ongoing research for various renewable energy technologies, as well as views and visions on the future.

**The conference has scientific parallel sessions within:**

- Wind power
- Solar cells
- Hydropower
- Bioenergy
- Hydrogen, electricity and biofuels for transport
- Ocean power
- Zero emission buildings
- Social studies of renewable energy

**Registration fee:**

Before 19th of April: 2500 NOK

After 19th of April: 3500 NOK

**Deadline for abstract submission:**

1st of March 2010



The conference will take place in the natural science building at the Norwegian University of Science and Technology (NTNU) in Trondheim, Norway. Trondheim lies close to the Polar circle and in June it never gets dark. More information about the city at [www.trondheim.com](http://www.trondheim.com)

**Keynote speakers plenary sessions:**

- Keith Melton, President, European Renewable Energy Research Centres Agency (EUREC)
- Hans Larsen, Head of Department in Systems Analysis, Risø DTU
- Fritjof Unander, Director of Energy and Petroleum Research, Norwegian Research Council
- Alf Bjørseth, Scatec, (to be confirmed)

**Chairman:**

Prof. Johan Hustad, Pro-Rector for Innovation and External Relations at NTNU

**Organizing committee:**

Ole Gunnar Dahlhaug (NTNU)  
Matthias Haase (SINTEF)  
Ånund Killingtveit (NTNU)  
Turid Worren Reenaas (NTNU)  
Marianne Ryghaug (NTNU)  
Øyvind Skreiberg (SINTEF)  
Ann Mari Svensson (SINTEF)  
Tor Anders Nygaard (IFE)  
Bernd Wittgens (SINTEF)  
Tor Haakon Bakken (SINTEF)  
Christer Skotland (SFFE)  
Trygve Mongstad (SFFE)

## Parallel session on

# Solar cells



The parallel on solar cells intends to gather researchers in research institutes, universities and the solar cell industry, who work on solar cell materials and technologies. News from research activities will be presented and discussed. The parallel will be a meeting place where the researchers can get to know each other and share their interests in solar cells research. A broad range of topics will be covered, as listed below.

### Topics covered:

- Silicon feedstock
- Silicon crystallization
- Silicon wafering
- Solar cell processing and testing
- Characterization of solar cell materials
- New solar cell technologies and materials
- Light harvesting

### Abstract submission:

[martin.bellmann@material.ntnu.no](mailto:martin.bellmann@material.ntnu.no)

## Parallel session on

# Zero emission buildings



The parallel of The Research Centre on Zero Emission Buildings, ZEB will present the latest developments in research, innovation and implementation within the field of energy efficient zero emission buildings. The goal is to gather researchers from all over the world who are interested in eliminating greenhouse gas emissions caused by buildings, for a lively exchange of ideas, challenges and solutions.

### Topics covered:

- Advanced materials technologies
- Climate-adapted low-energy envelope technologies
- Energy supply systems and services
- Energy efficient use and operation
- Concepts and strategies for zero emission buildings

### Abstract submission:

[matthias.haase@sintef.no](mailto:matthias.haase@sintef.no)

## Parallel session on

# Social studies of renewable energy



The parallel intends to assemble the international scientific community working on questions related to renewable energy from a social scientific and humanities perspective. The aim is to attract a multi-disciplinary body of researchers and PhD-students working within this field for a stimulating discussion on a broad range of topics.

### Topics covered:

- Public engagement with renewable energy
- The renewable energy innovation system
- Energy policy: Governance, commercialization and industrial development
- Energy markets and energy actors
- The cultural dynamics of renewable energy technologies

### Abstract submission:

[tomas.skjolsvold@ntnu.no](mailto:tomas.skjolsvold@ntnu.no)

## Parallel session on Biofuels, hydrogen and electricity for transportation



CO<sub>2</sub>-emissions from transportation are considerable and contribute to climate change, therefore sustainable options for transportation are needed to replace liquid fossil fuels. The conference will focus on production and utilization of biofuels and hydrogen as an energy carrier for transportation, electric transport, including issues related to electric propulsion, as well as charging stations and grids.

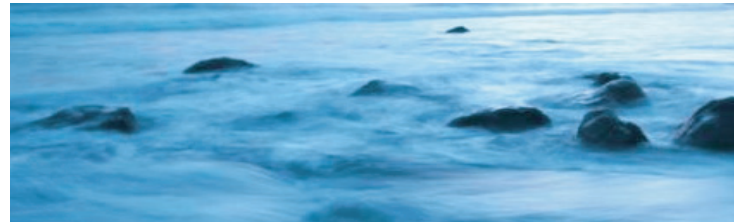
### Topics covered:

- Production of biofuels, biogas and coproducts from biomass
- Production and utilization of hydrogen
- Electric transport, including battery technology and power supply
- Environmental aspects of transportation

### Abstract submission:

[ann.m.svensson@sintef.no](mailto:ann.m.svensson@sintef.no)

## Parallel session on Ocean energy



The parallel on Ocean Energy intends to gather researchers in Norway, Scandinavia and Europe who work towards developing technologies for harvesting tidal, wave and osmotic energy. The goal is to create a meeting place where the researchers can discuss and share research results and interests.

### Topics covered:

- Technology and equipment related to:
- Tidal Energy
  - Wave Energy
  - Pressure retarded osmosis
  - Reverse Electrodialysis

### Abstract submission:

[ole.g.dahlhaug@ntnu.no](mailto:ole.g.dahlhaug@ntnu.no)

## Parallel session on Hydropower



Hydropower is a mature technology, but still there is a need for more research both for developing better technological solutions, to study environmental impacts and mitigation measures, and focusing on climate change and its impact on hydropower. The parallel on hydropower intends to gather researchers, PhD-students and persons working in the hydropower industry in Norway and internationally.

### Topics covered:

- Environmental and social effects
- Equipment and technology
- Water management and climate change issues
- Scenarios for power system development in Europe
- Hydropower support to other renewables

### Abstract submission:

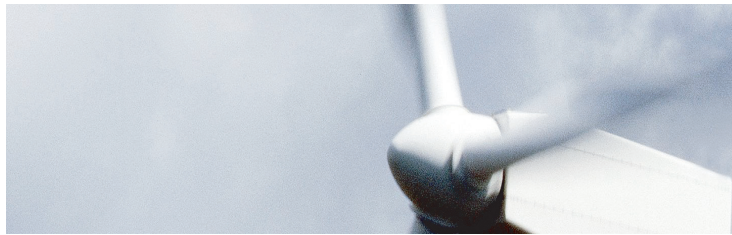
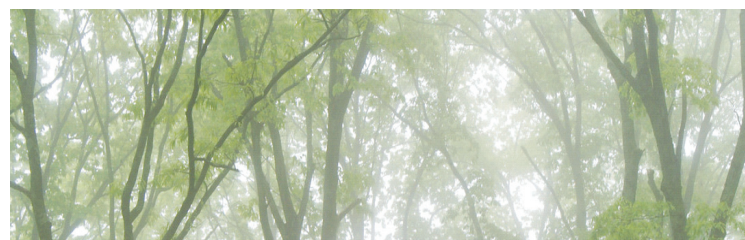
[aanund.killingtveit@ntnu.no](mailto:aanund.killingtveit@ntnu.no)

Parallel session on

# Bioenergy

Parallel session on

# Wind energy



The parallel on bioenergy intends to gather all the researchers in Norway who work within bioenergy for heat, power and thermochemical biofuels production. The goal is to create a meeting place where the researchers can get to know each other and discuss and share their research interests.

**Topics covered:**

- Fuel supply
- Conversion mechanisms for heat and power applications
- Conversion technologies for heat and power applications
- Thermochemical conversion mechanisms and technologies for biofuels applications
- Environmental aspects

**Abstract submission:**

[oyvind.skreiberg@sintef.no](mailto:oyvind.skreiberg@sintef.no)

The parallel on wind energy intend to gather PhD students, researchers, scientists and engineers in Norway and abroad working on wind energy. The goal is to create a forum for discussion, exchange of ideas and generation of new ideas.

**Topics covered:**

- Wind resource and wind farm wakes, measurements and modelling
- Aerodynamics, structural dynamics, hydrodynamics and coupling issues
- New materials and structures
- New concepts and technologies
- Electrical grid issues

**Abstract submission:**

[tor.anders.nygaard@ife.no](mailto:tor.anders.nygaard@ife.no)

