



**NCE ENERGY AND EMISSIONS TRADING HALDEN**  
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The global economy demands more energy, while the globe demands lower emissions. Fifty percent of global emissions stem from energy production. Achieving the ambitious goal of creating a sustainable environment through low carbon solutions requires big changes in energy systems. The Norwegian Centre of Expertise (NCE) Energy and Emissions Trading Halden helps energy companies to prepare their future for green growth.

**The World's Energy System is at a Crossroads**

The energy industry is facing rapid and radical changes to business conditions, market designs and policy instruments. These changes pose significant challenges for the energy industry, such as trading new instruments; understanding the interdependence of different energy and non-energy commodities and instruments; and changes in working processes, methods and tools. The key to managing these changes and challenges and achieving world-class performance is world-class competence.

**Long Experience & Unique Expertise**

Academia, energy trading industries and public authorities have all joined forces to create a network based upon solving these challenges by establishing a highly specialized international centre for R&D and education. In 1991 the Halden cluster developed the world's first system for a competitive energy trading market. In 2005, this same cluster delivered the first system for emissions trading. For this work, in 2008 the NCE Energy and Emissions Trading Halden was awarded the Norwegian prize for "Green IT".

New energy and IT-related businesses with clients worldwide have been established as spinoffs from the R&D activities associated with the Institute for Energy Technology and the OECD Halden Reactor Project. At the intersection between energy, engineering, IT and finance, the cluster of energy and technology-related businesses located in Halden has established solid international acceptance of its unique expertise.

**Preparing for the Future through Green Growth**

NCE Energy and Emissions Trading Halden provides its partners with the opportunity to develop critical competence in energy

and emissions trading. It is now establishing unique Masters and PhD studies and creating a scenario and simulation centre where partners can test out new products, new strategies and market designs. Partners and the partners' extended network are invited to participate in research projects to discover innovative solutions and gain first access to new knowledge.

NCE Energy and Emissions Trading Halden partners play an active role in shaping the rules which govern the energy industry. Companies preparing their future for green growth are invited by the Norwegian Centre of Expertise in Halden to consider joining this industry leading partnership in energy and emissions trading.

