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Nordisk InnovationsCenter

innovate

Nordic CleanTech Networks

Opportunities for collaboration

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Nordic co-operation

- Since 1952: The Nordic Council
 - Cooperation between parliamentarians from Denmark, Finland, Iceland, Norway and Sweden
- Since 1971: The Nordic Council of Ministers
 - Intergovernmental collaboration between Denmark, Finland, Iceland, Norway and Sweden
 - 11 councils of ministers (Business, Energy & Regional Policy)
- Institutions (operational units)
 - Nordic Innovation Centre, NICE
 - Nordic Research Council, NordForsk
 - Nordic Energy Research, NEF



Nordic Innovation Centre, NICe

.... promoting an innovative, competitive and knowledge-intensive Nordic business sectors

- innovation leading to improved entrepreneurial capabilities and economic growth in the Nordic countries
- establishment of the Nordic region as a single market and a borderless region



■ Instruments

- ✓ Networks
- ✓ Focus area
- ✓ User driven innovation projects
- ✓ Commercialization projects

■ Geography

- Organisation

Market driven innovation - Adding value

Innovation is

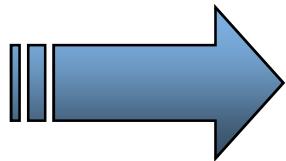
- A new product
 - A new process
 - A new organisational structure
- That creates commercial **success**
and/or other **value** to society

*Research or inventions can only become innovations
through interaction with commercial interests*

Why CleanTech?

- One of the fastest growing sector
- Strongholds in the Nordic countries
- Not been as successful in terms of exports
 - Weak expertise on trade issues
 - Fragmented sector
 - Reluctance in national markets to adopt new innovation
- Lack off venture capital

Role for NICE to play



- Cooperation platforms; networks & value chains
- Commercialization - cooptition
- Enlarge the home market

Focus area of Environmental Technology

NOWATEC, Nordic Water Technology Verification Network

Project leader: Christian Grøn, DHI Water & Environment, Denmark

- Establishment of test centres for water technologies
- Development and harmonizing of verification methods
- Enhancing Nordic countries as one market
- Early implementation can give competitive advantages



Nordic Environmental Technology solutions-NETS

Project leader: Lauri Hietaniemi, Green Net Finland, Finland

- Commercialization - coopetition
- Nordic national network of companies
- Commitment is required
- Good anchoring in other national/Nordic activities

Focus area of Environmental Technology



Lignin as raw material

Project leader: Katarina Gårdfeldt, Centre for Environment & Sustainability GMV, Chalmers and Göteborg University, Sweden

- Explore the possibilities to use various lignin structures as chemical precursor for certain chemical substances
- Platform between pulp & paper industry, researchers and chemistry



Commercializing green nano-technology in Nordic construction

Project leader: Maj Munch Andersen, Risø, Denmark

- Establish a Nordic platform for analyzing and promoting the industrial uptake of green nano technology in construction

Other activities

- **Energy Efficiency**
 - **Sustainable renovation - call open 15.-sept 08**
Tekes Fi, Formas SE, Swedish Energy Agency, EBST DK, RCN NO
 - **Demand controlled ventilation systems for energy efficiency**
Project leader: Per Fahlen, Chalmers University of Technology
 - **Integrert energiplanlegging av bygg (IEP)**
Project leader: Fritjof Salvesen, KanEnergi, Norway
- **Nordic Green Tech Companies Meets Californian Venture Capital**
- **BSR-InnoNet**
 - **Trans-national cluster pilot project; biotech with focus on environment**
Project leader: Ole Helmer Bjørlien, Arena Bioenergy Innland, Norway
olehelmer@gmail.no



NICe's future activities

- “Joint Research & Innovation initiative - Climate, Environment and Energy” - October 2008
 - Nanotechnology + Energy efficiency
 - Integration of renewable energy technology; Wind and biofuel
- Innovation
 - Management of innovation
 - Environmental Innovation
 - Innovation agencies/representative in Asia
- Commercialization, User driven Innovation
 - value chains, network



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There are ongoing or planned activities that companies or researchers can participate in

... stay tuned!

For further information

www.nordicinnovation.net