INNOVATION NORWAY

Nordic-Chinese Energy and Climate Day

25 June 2010

We give local ideas global opportunities

Nordic Chinese Energy & Climate Day

June 25 2010

- About Innovation Norway
- Innovation Norway in China
- Norwegian Energy and Environment Consortium – NEEC
- The Energy Management Program in China
- Norwegian R&D Collaboration

Photo: Siv Nærø/ Innovation Norway

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Photo: Siv Nærø/ Innovation Norway

We contribute to

- Innovation in Norwegian trade and industry
- Making Norwegian businesses competitive domestically and internationally
- Promoting the reputation of Norwegian businesses

Photo: Siv Nærø/ Innovation Norway

A public door opener

- The gateway for businesses to public funds
- Owned by the Ministry of Trade and Industry and the 19 county municipalities of Norway

An international organization

OFFICES IN EVERY COUNTY

OFFICES IN MORE THAN 30 COUNTRIES

From local ideas to global opportunities

One Focus

Trigger sustainable innovations

© iStockphoto/Andrejs Zemdega

Infrastructure and capital

REC (Renewable Energy Corporation) has clients and factories all over the world.

Innovation Norway has contributed with capital and building the infrastructure around the company.

Photo: Damian Heinisch

Corporate Social Responsibility

The future winners in business are those who are able to combine global, social and environmental challenges with profitable growth

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- We give local ideas global opportunities

Innovation Norway in China

- 2 locations in China - Beijing and Shanghai.

- Innovation Norway in China is part of the Norwegian Embassy and Consulate General, representing the Commercial Section.

Advisor in a difficult global landscape

Tasks

Innovation
Internationalization
Marketing
Rural business growth

Services

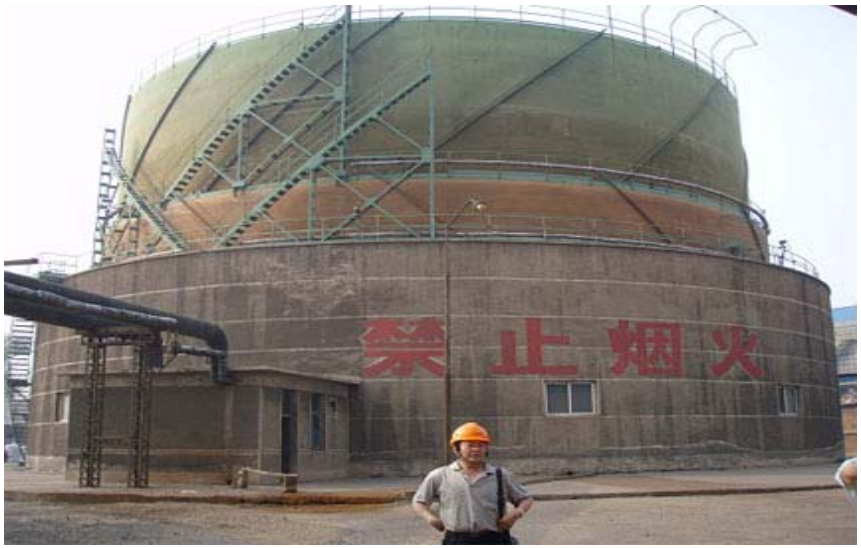
- Financing
- Advisory services
- Competence
- Networks
- Branding/marketing

We create a sustainable business environment for our children

Energy & Environment Sector

Innovation Norway in China has two key programmes for this sector:

- Norwegian Energy and Environment Consortium –NEEC
- Energy Management Program



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NORWEGIAN ENERGY AND ENVIRONMENT CONSORTIUM (NEEC)

NEEC – Background

- NEEC was initiated in 2005 by Innovation Norway Beijing and members of the Norwegian business community in China

- NEEC is organized as a multi-client project in Innovation Norway

NEEC's focus areas

- Energy Efficiency and Management in Industry and Buildings

- Water and Waste Water Treatment Technology

- Renewables

- Project Financing

NEEC membership

NEEC invites all individual companies, agencies and institutions, as well as established networks and partnerships to become members of the consortium.

NEEC does not seek to abolish sound competition, but rather to increase the competitive edge for the Norwegian energy and environmental industries in the global marketplace through collaboration.

NEEC'S AIM

To promote Norwegian energy and environment technology in China and further Norway-China cooperation in this field

We also want to contribute to the development of new technologies in collaboration with Chinese clients, and adapted to the current environment and energy challenges in China

NEEC has more than 30 members and contributing partners

INNOVATION NORWAY

NTNU
Det skapende universitet

Clean Water Norway

AF ENERGY

FRAMTECH

ENSI® Energy Saving International AS

GreenStream

Malthe Winje

Prediktor

powel

METALLKRAFT

SINTEF

Green Business Norway

Cooperation partners and contributors:

FRIDTJOF NANSENS INSTITUTT
FRIDTJOF NANSEN INSTITUTE

Global Water Partnership

Elkem

NÆRINGS- OG HANDELSDEPARTEMENTET

MILJØVERNDEPARTEMENTET

WWF®

NHO
NÆRINGSLIVETS HOVEDORGANISASJON

What information and which services does NEEC offer?

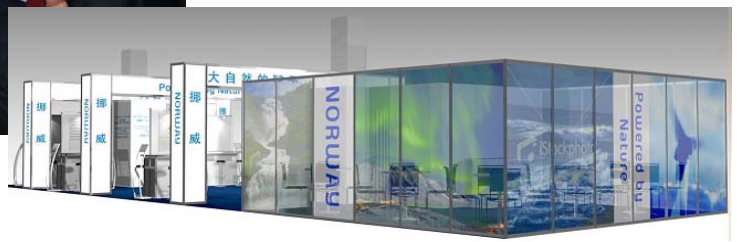
1. Regular NEEC activities including seminars, workshops, networking events, newsletters, reports and more

2. Financing possibilities

3. Information and promotion of project opportunities in China

4. Industry and company news

5. Chinese contact points



INNOVATION NORWAY 中文

NORWEGIAN ENERGY & ENVIRONMENT CONSORTIUM

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NEEC events

Sino-Norwegian Seminar on Sustainable Environment and Energy Management; Opportunities and Challenges

On the United Nations World Environment Day Friday June 5th, Innovation Norway in Beijing together with The Royal Norwegian Embassy, The Norway EXPO 2010 team and China Enterprise Confederation (CEC), held a very successful seminar to mark the

News

Clean-tech VC investments overtake IT and biotech

Venture capital (VC) investments in clean-technology companies climbed to $1.59 billion over the last three months, as national stimulus packages brought some confidence back to the sector, according to the Cleantech Group and Deloitte. "The billions in government funding being allocated globally in clean-tech have begun emboldening private capital, which has in turn helped propel clean-tech to the leading venture investment sector, now eclipsing biotech and IT," said Dallas Kachan, managing director of the Cleantech Group.

Read more

Buildings offer emission-cutting projects that pay for themselves

The world is on the verge of seeing building efficiency in the same way that it sees building safety codes -as the default choice, not a pricey burden, according to the chairman of a major energy efficiency company. A new economic analysis has found vast energy savings in the world's building sector, with 80 percent of the cost of efficiency improvements recouped within 20 years.

Read more

Member ID

Password

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Air Quality - Sept. 28

Cities	Major Pollutant	Level
Beijing	particulate matter	II
Shanghai	particulate matter	II
Guangzhou	particulate matter	II
Chongqing	particulate matter	II
Xi'an	particulate matter	II

Events in China

WMC- Water & Membrane China 2009, Oct. 14-16, Beijing

Read more

Shanghai International Petroleum Petrochemical Exhibition (SIPPE), Oct. 14-16, Shanghai

Read more

PNPE - China International Petroleum, Natural Gas and Petrochemical Technology and Equipment Expo, 14-16 Oct., Tianjin

Read more

www.neec.no

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Photo: Siv Nærø/ Innovation Norway

Energy Management Program

Supported by Norad and Innovation Norway until 2012

Aim is to contribute to a cleaner environment through reducing greenhouse gas emissions

Targets:

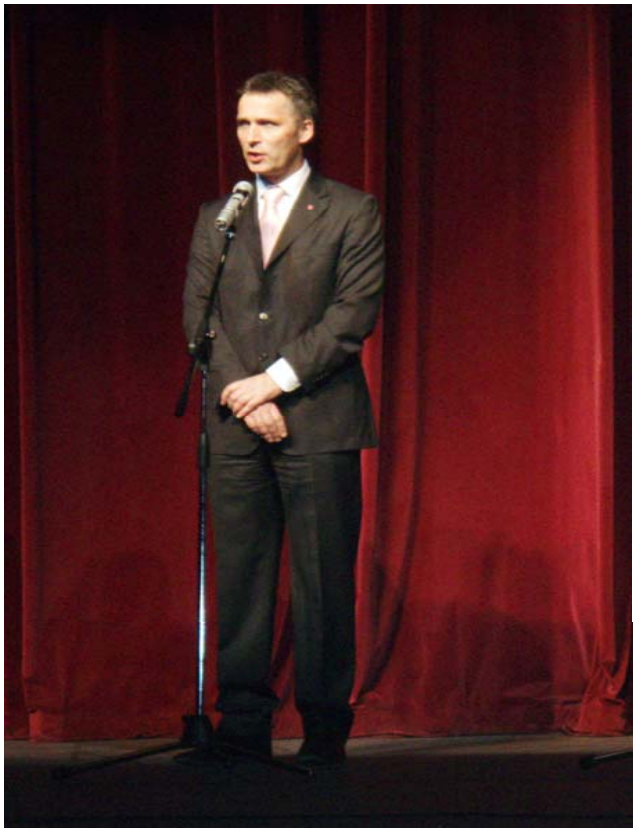
- Energy efficiency projects in Chinese heavy industries, construction and building industry
- Introduce where beneficial Norwegian technology and know-how
- Provide cost effective solutions

Opening of Program in 2007

Launch Seminar - Beijing, 2007。

- 250 participants. Opened by Prime Minister of Norway, Mr Jens Stoltenberg.

- 140 participants from the Chinese processing, steel/aluminium, paper industry and more

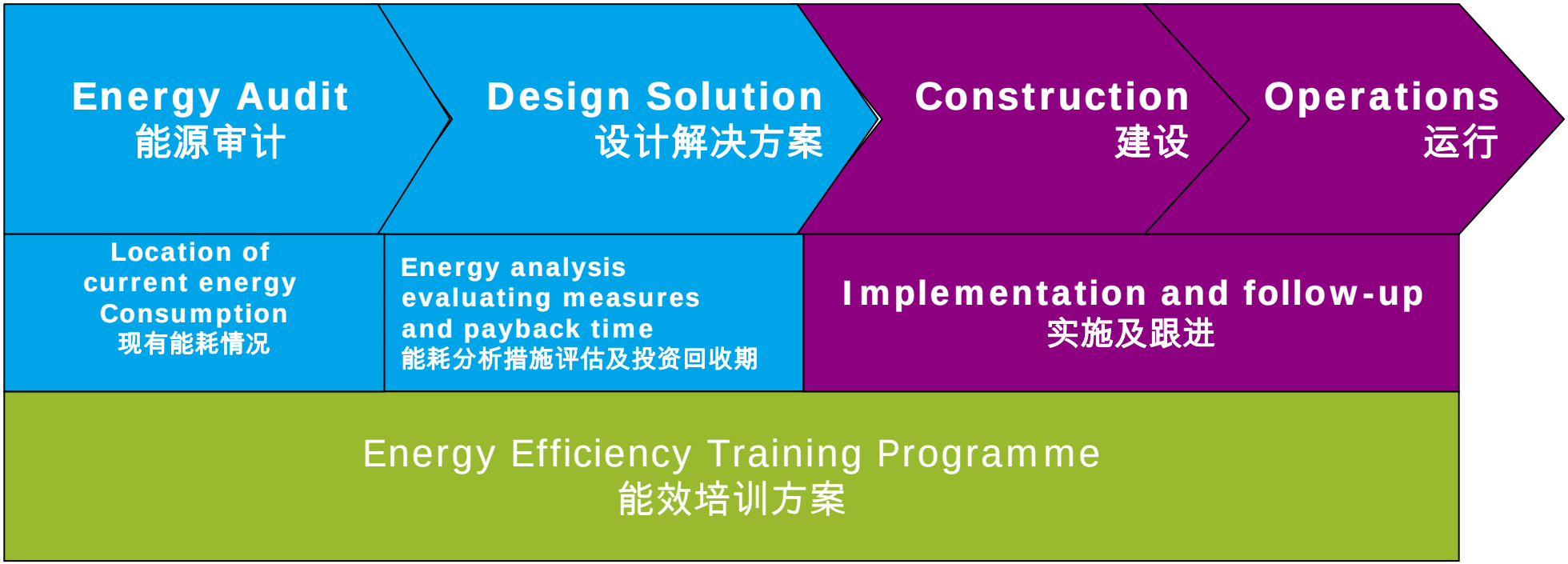


Benefits to participating Chinese companies

Participating companies can get one or more of the following benefits from Norwegian experts:

- Recieve free energy audits of their facilities and production process
- Benefit from expert advice on energy efficiency and CDM
- Recieve necessary training through workshops, study tours and seminars
- Be assisted in identification of financial solutions for implementation of energy efficiency investments
- CDM qualified projects will be assisted in the process to PDD stage making the company able to register and sell its carbon credits
- Implementation of the energy efficiency projects imply large cost savings for the companies through energy saving

Project funding 项目资助



Proportion paid by Energy Management Program **能效管理项目部分承担**

Paid by Energy Management Program **能效管理项目承担**

Paid by Project Owner **项目所有人承担**

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Sino-Norwegian research cooperation

Agreements:

- Cultural agreement (China Scholarship Council)
- MoU - Exchange programme (NSFC)
- MoU signed with MOST 2008

Research Cooperation Programme with China - CHINOR

Sino-Norwegian research cooperation

China in Norway:

- Partner in EISCAT (European Incoherent Scatter)
- Partner in Integrated Arctic Earth Observing System (SIOS)
- Research station at Ny-Ålesund - Svalbard
- Large contingent of students and exchange scientist

Norway in China:

- Nordic Centre at Fudan University (UiO, UiB, NTNU)
- BI-Norwegian School of Management at Fudan University

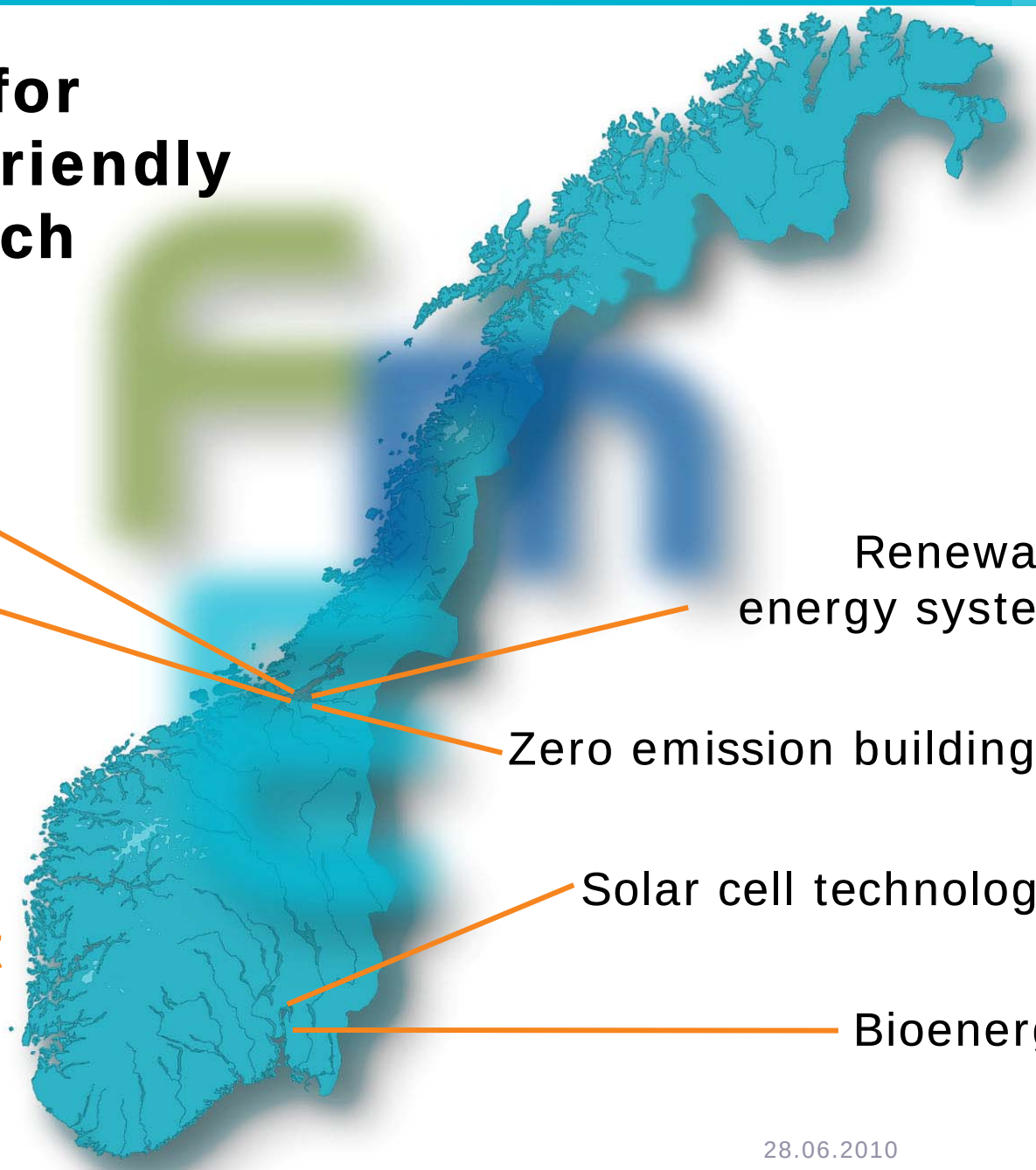
Joint Research Centers :

- Sino-Norwegian Centre for Interdisciplinary Environmental Research (SINCIERE)
- Nansen-Zhu International Research Center (climate research)
- Norwegian University of Science and Technology – Tsinghua University
- Norwegian University of Science and Technology - Jiao Tong University

Climate change and polar research

- Nansen-Zhu International Research Center was established in November, 2003. Focuses on the past, present and future climate change, especially the climate teleconnection between high and low latitudes.
- National climate research programme (NORKLIMA) funded in 2008 climate research conducted in cooperation with China.
- A cooperative project on environmental and climate change in the Arctic was launced in 2007. Polar Research Institute in Shanghai and Norwegian polar research institutions.
- The Chinese Academy of Sciences and the Research Council of Norway conducting a joint call within climate and environment
- Deadline 1 December 2010

Eight Centres for Environment-friendly Energy Research



CO_2 capture and storage

Offshore wind technology

Offshore wind energy

CO_2 storage

Renewable energy systems

Zero emission buildings

Solar cell technology

Bioenergy

Energy research seminar a EXPO2010:

- Sustainable energy for the future

- The aim of the seminar was to explore ways to increase the collaboration between Norway and China on targeted R&D.
- The seminar covered four topical directions:
- - Carbon capture and storage
- - Offshore wind technology and innovative concepts
- - Advanced solar cell technology
- - Sustainable hydropower development.
- 37 different institutions/companies from China, and 11 from Norway were represented
- Mutual interest for collaboration in several fields

Thank you!
Xie Xie!

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www.neec.no