



**SETatWork matchmaking event
in Bangkok, 18-19 Feb 2010**

SETatWork Project: Findings of project activities in Europe and Asia

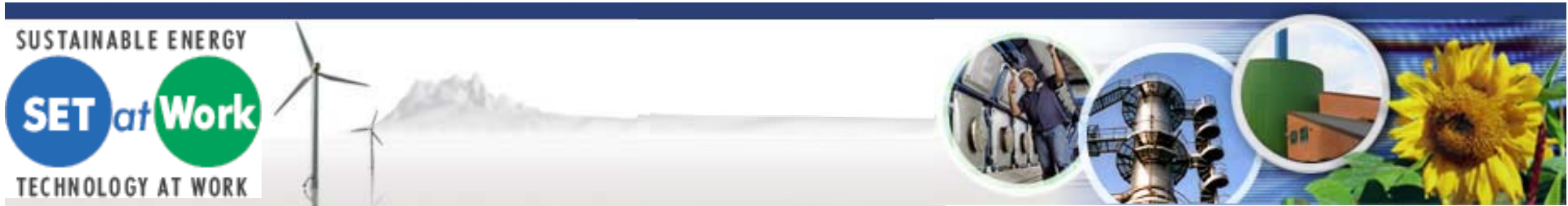
By Mr. Nils Daugard, ECNet



Menu



- **Need assessment and training of EU industries**
- **Intervention CDM market in China**
- **Intervention CDM market in India**



EU's Emission Trading Scheme

- **A 'cap and trade' system**
- **Covers the big CO₂ emitters of EU industries**
- **EU Member States make allocation plans (NAPs) for their industries**
- **The allocations for the industries will be tightened in the years to come**
- **This way it is a key instrument to fulfil EU's CO₂ reduction target (20% before year 2020)**
- **EU industries can meet part of their obligations via CO₂ trading like CDM projects**

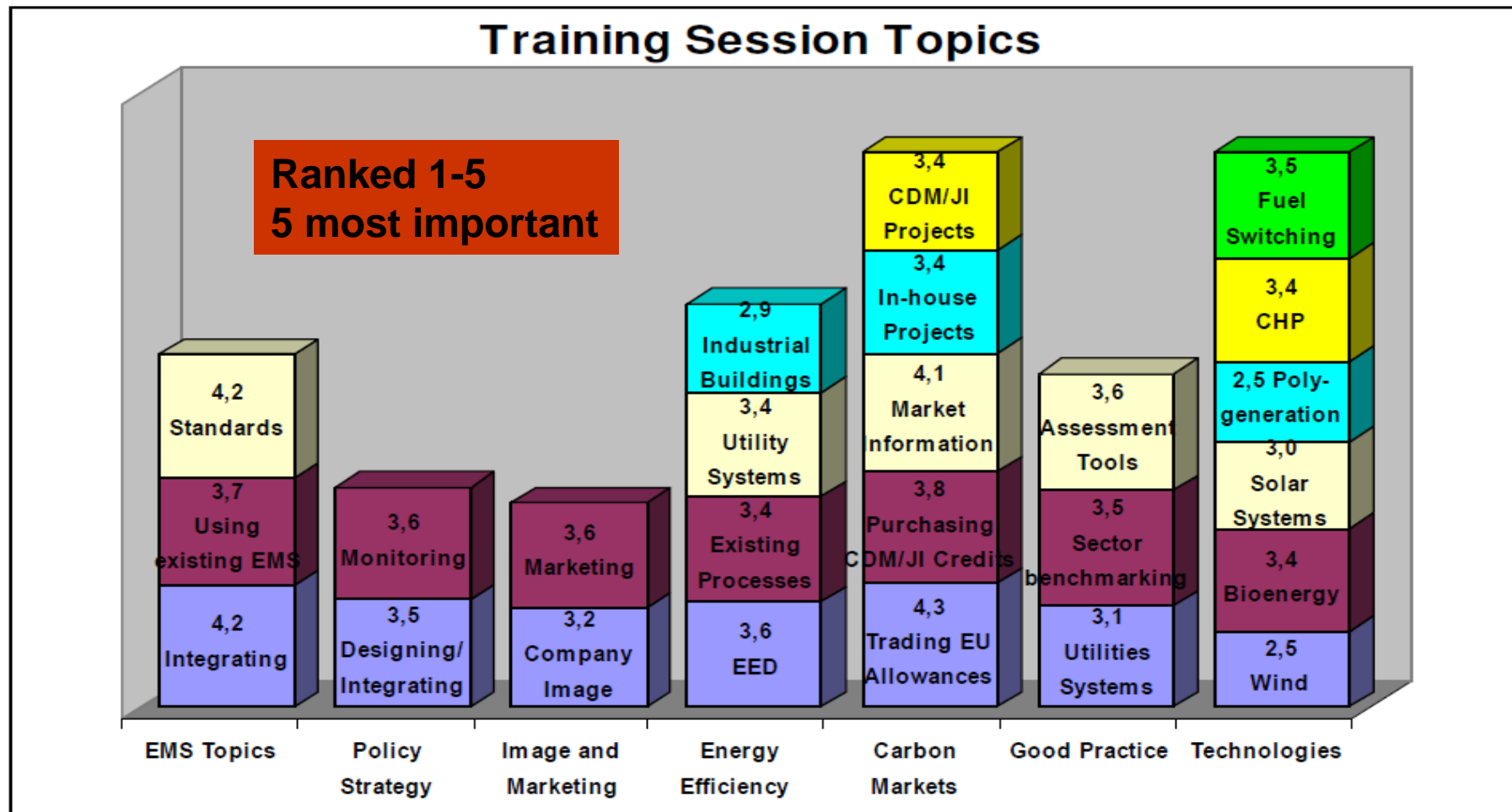


European ETS – SETatWork Need Assessment

- **The goal has been to provide a solid basis for the project's training activities**
- **Based on questionnaire for 3,192 ETS companies**
- **The companies have been asked to rank their development needs within key technical and organisation areas**
- **Undertaken by the SETatWork partners in Portugal, Italy, Germany, Bulgaria, Slovakia, Poland, Denmark and Sweden**



European ETS – Ex. Germany





European ETS – Training Material

Training material made based on need assessment :

- **Standard based Energy Management systems in industry and link to ISO14001 and ISO 9001**
- **Internal management EU ETS and target setting**
- **Surplus/deficit allowance scenario workshops**
- **Energy Efficiency in Design (EED) when modifying or expanding facilities**
- **Energy review techniques of existing facilities**
- **Where to identify the main saving potentials**
- **Core Process needs vs. utility systems**
- **Renewable energy projects**
- **Where to find inspiration**
 - **Industrial energy saving 'toolbox' and benchmarking**
 - **Link to relevant EU organisations**

The training material
available at:

www.setatwork.eu

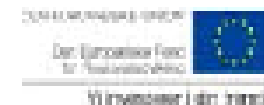
Good Practice - Example from Denmark

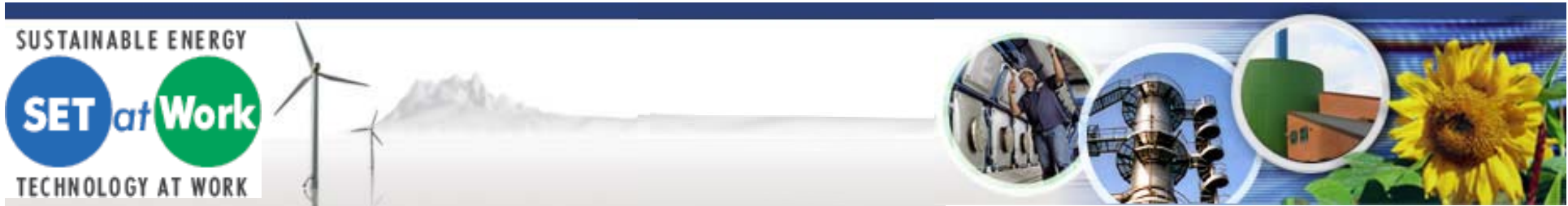


**Example on how a number of companies
in south part of Denmark has gone about
with energy savings and other sustainable
measures**

**Produced by
Green Network**

with support from





European ETS – State of Action

EU partners are providing training for European industries based on the need assessment and developed training material....

- By fuels consumption in 2007
 - ✓ coal 69.5%,
 - ✓ oil 19.7%,
 - ✓ natural gas 3.5%,
 - ✓ rest 7.3% (incl. hydro, nuclear , wind etc.)
- ➔ coal is dominant in Chinese energy mix.

- 25 November, 2009, Chinese government has issued the target of GHG emission by 2020
 - ✓ 40%-45% reduction of CO2 emission per unit GDP
- Energy saving still be hot topics

China

Need & Opportunities

Taken an example of Zhejiang province in China, energy saving action will target at:

- ✓ energy intensive industrial enterprises
- ✓ EE and RE technology in buildings
- ✓ energy efficiency in transport
- ✓ EE and RE in commercial, public and domestic sectors

China

Prospects for EU Stakeholders

- Energy intensive industrial sector
 - ✓ innovative process with higher energy efficiency
 - ✓ Higher efficiency boilers, motors etc.
- Energy Efficient Building
 - ✓ Design concept
 - ✓ Integration of EE and RE in buildings
 - Solar thermal use, solar PV
 - Solar shade
 - GSHP
 - Insulation materials of envelop
 - efficient HVAC

China

Match-Making activity

- Matchmaking events in China
 - subjects: energy saving technologies, and RE applications
 - tentative time: April 2010
 - place: Hangzhou and/or Guangzhou, China



- **Supply:** Coal (53%), natural gas (10%) & oil (1%) are the primary commercial energy sources
- Increasing energy demand is leading to energy shortages and subsequent energy imports
- **Power from renewable:** Mainly wind and hydro.... forays into off grid renewable power as well
- **Targets**
 - To provide power to all by 2012 (MoP)
 - Per capita electricity consumption – 1000 KWh/year (2011-12)
 - 10% installed capacity to come from renewable by 2012
 - 20 GW from solar by 2020 (MNRE)

India

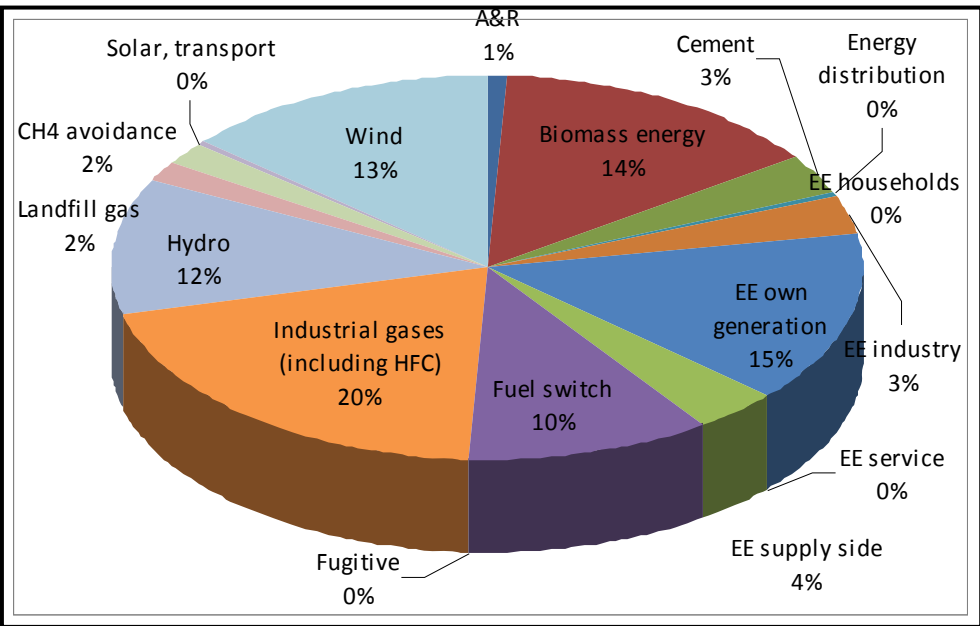
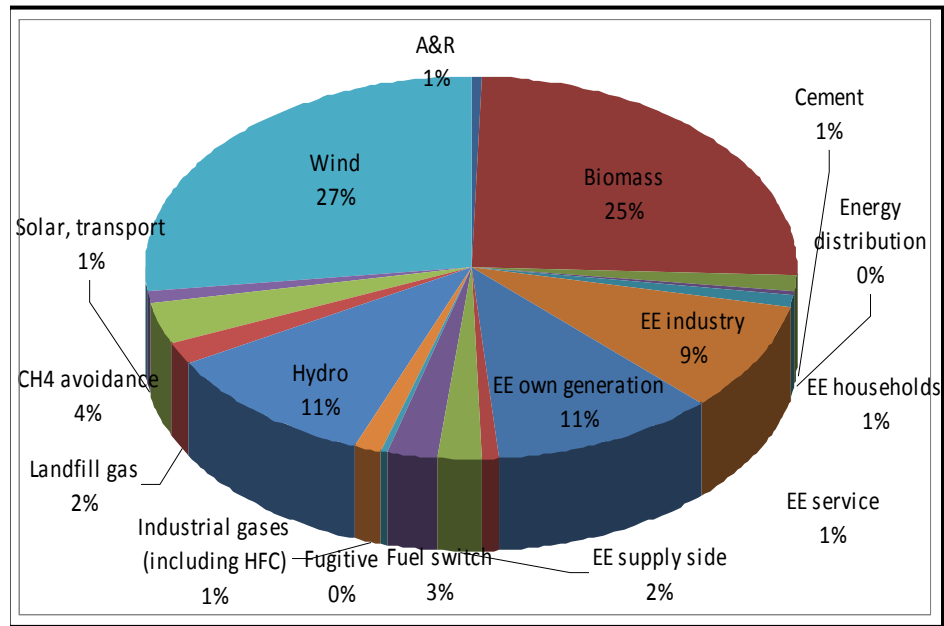
CDM Market Development

- Key observations: 473 projects registered
 - One fourth are different type of energy efficiency
 - Maximum projects from EE in own generation and industry
 - Demand side yet to benefit
- Overall unilateral projects on the rise: 89 projects registered in 2009, 12 bilaterals
- Selling picking up slowly, still slow
- Programmatic CDM not up to expectations

- CDM project distribution in India

Distribution of projects

Distribution of CERs



India

- Need & Opportunities

- **Need:**
 - Develop Programmatic Model (CDM)
 - Technology mapping
 - Financial models to support ESCOs are welcome
 - Need to address opportunities in SMEs
- **Opportunities:**
 - Projects in line with EEE
 - Projects involving joint research and project development

- Match-Making activity

- Matchmaking event – 15-16 March, 2010
- Aimed to contribute towards EEE meeting the targets
- Main topics suggested: Technology requirement and availability, partnerships, financing
- B2B meeting for experience sharing and credit purchase.

