



SINTEF – A Global Partner for Clean Water

A short introduction to SINTEF's Clean Water Project

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Dr.

SINTEF's Clean Water Project

Organisation

Project group with project leader Bjørnar Eikebrokk, Chief Scientist, Dr



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Michael Stöcker



Liv Furuberg

Steering Committee with participation from the founding SINTEF institutes

SINTEF's Clean Water Project

Participating SINTEF Institutes and fields of expertise

Founding members

1. SINTEF Building and Infrastructure (Water & Environment)
2. SINTEF Materials and Chemistry (Membranes, materials, coatings, catalysts, corrosion, environmental impacts, ++)
3. SINTEF ICT (Sensors, Data management, ICT Security)
4. SINTEF Technology and Society (RA/RM, Microbiology & Health issues, Capacity building)

Future project partners

- a. SINTEF Energy Research (e.g. Water & Energy Nexus; WRM; Hydro power);
- b. SINTEF Maritime Research (MARINTEK) (Ballast water treatment)
- c. SINTEF Fisheries & Aquaculture (RAS, Water treatment & discharge)
- d. SINTEF Petroleum Research (Injection water & produced water)

SINTEF's Clean Water Project: WHY?

3 good reasons

1. Because we are facing significant **global water challenges**: Population growth, urbanization, climate change, water scarcity, etc - with the need for more sustainable, more resource effective, less GHG-emitting and more climate-robust solutions
2. Because SINTEF's **unique combination of applied, end-user-oriented water activities and more basic competences** can "make the difference" towards integration of relevant R&D and Innovations
3. Because the **global water market** is huge – and rapidly growing SINTEF's vision "Technology for a better society"

SINTEF's Clean Water Project: HOW?

Main Task: Global Water Challenges and possibilities for SINTEF: Development of a Strategy

1. Status mapping (competence, projects, networks, etc)
2. Needs, challenges - and possibilities in the global water market
3. SWOT
4. Formulation of a Vision, an ambition and a strategy for SINTEF's Clean Water Project
5. Identify common activities – in short and long terms
Phase 1 of a multi-phased project.....

SINTEF at the International Water Arena

- ✓ **EU-FP projects** (TECHNEAU, PREPARED, TRUST, iNTeg-Risk,++)
- ✓ **Technology Platforms** (WssTP, SusChem, ETPIS)
- ✓ **Networks/alliances** (ARC, EU-Vri, CSA Chemwater, EIP Water Efficient Europe, ERA-NET MATERA, INERIS, Mines Paris Tech, EMH, IWA, AWWA, SV, NV, Univ, FI, NVF, ROSS Gemini Center, Smart Water Communities Cluster, CWN Water Cluster, etc)
- ✓ **Sources of finance** (EU, EEA, EUREKA, ACQUEAU, COST, FNS, industry, providers, municipalities and public institutions, authorities, Research Councils, etc)

EU FP7 CSA ChemWater

Addresses a key pan-European concern: Efficient water management in the process industry

- Duration: 30 months, Start: May 01, 2011, Budget: 950.000 €
- List of participants (SINTEF takes part as an ENMIX member):
 - 1 DECHEMA e.V. – DEC, DE (coordinator)
 - 2 European Chemical Industry Council – CEFIC, BE
 - 3 Netherlands Organization for Applied Scientific Research – TNO, NL
 - 4 Suez Environment SA- SE, FR
 - 5 European Membrane House – EMH, BE
 - 6 Flemish Institute for Technological Research NV – VITO, BE
 - 7 Complutense University of Madrid – UCM, ES
 - 8 Cranfield University –CU, UK
 - 9 European Research Institute of Catalysis – ERIC, BE
 - 10 European Nanoporous Materials Institute of Excellence – ENMIX, BE
 - 11 Veolia – VE, FR

Goals: More Competence & More Innovations



SINTEF's Clean Water Workshop

Rica Hell Hotel, Sep 8-9, 2011

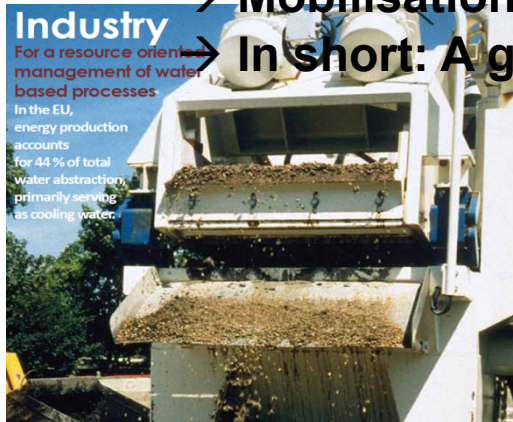


- Multidisciplinary R&D activities
- Innovative products in a wide sense



can provide innovative solutions to
**water challenges, and we are working
 towards:**

- More arenas where problem owners and problem solvers can meet !
- More incentives and more motivation for multidisciplinary activities !
- Mobilisation of our best researchers towards Water R&D !
- In short: A good strategy for SINTEF's Clean Water activities !



RENT VANN SATSING I SINTEF

Underlag for workshop 8. sep 2011

Et mulighetsstudium Hvilke satsfelder bør prioriteres og hvordan kan SINTEFs flerfaglighet nyttes til utvikling av ny kompetanse, ny teknologi og nye produkter, tjenester og markeder?

Forfatter(e)

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Lars Bodsberg, Mats Carlin, Liv Furuberg, Einar Hinrichsen, Ørn Iversen, Bernd Schmid, Michael Stöcker, JorRøstum

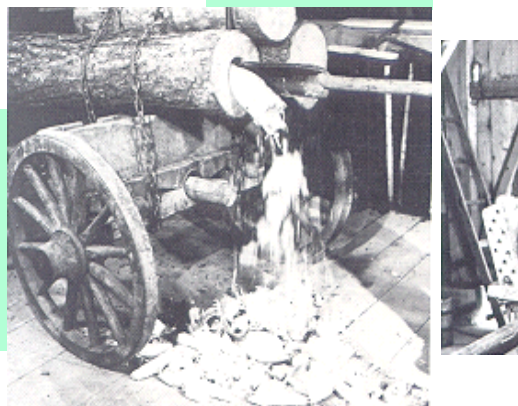


Foto: Produksjon av treerør

Clean Water Report to be finished in Dec 2011