



Energiforsk

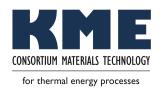
- Energy industry's tool for research and innovation
- Drivers of research, development and innovation within the energy field
- Impartial
- Non-profit sharing
- Owners

















Research within Energiforsk

Demand driven

- what knowledge gaps?
- what can we do together?

Economic benefits

- cost sharing
- level up with other funds

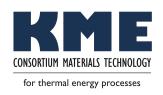
Knowledge and networking platform

- exchange of experiences
- access to early knowledge
- competence building



KME

- Multi-cliental group of companies platform for co-operation
 - ➤ Solve industry relevant material related problems, together with academia or institutes
 - ➤ Different stakeholder groups along the value chain
 - ➤ Develop industry relevant research projects
 - ➤ Information and knowledge exchange
- Research projects are <u>applied</u> and <u>demand</u> driven
 - ➤ Performed as close cooperation between industry and academia or institutes
 - > Combining perspectives over the entire value chain
 - ➤ Based on the industry's need, field studies
 - ➤ Deep knowledge from researchers utilised
- Ongoing over 20 years (100 reports, + 30 PhD's, implemented results)
- Energiforsk keeps it together





Stakeholders

Kanthal

MH Engineering

Höganäs

Calderys

Sumitomo

Valmet

B&W Vølund

Energy companies via

Energiforsk:

Stockholm Exergi

Ørsted

E.ON Energilösningar

Vattenfall

Falu Energi Mälarenergi

Kraftringen

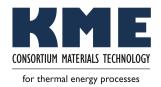
Tekniska verken i Linköping

Jämtkraft

Karlstads Energi

Researchers at:

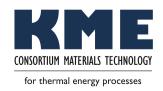
Chalmers University of Technology Linköping University Högskolan väst Rise KIMAB (Swerea) Rise IVF (Swerea)





Ongoing research – first batch of projects

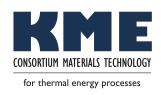
KME no	Project title	Participating companies	Project leader
KME 801	•	Sandvik Materials Technology, Sumitomo, Energiforsk	Mattias Calmunger, Linköping University
KME 802	with challenging fuels .	Valmet, Mälarenergi, EON, Stockholm Exergi, Falu EoV, Vattenfal, Kanthal, MH Engineering, Calderys, Energiforsk	Rikard Norling, Ri KIMAB
KME 803	New materials and Oxygen Carrier Aided Combustion for improved competitiveness of FB plants using renewable fuels		Jesper Liske, Chalmers
KME 804	Increased flexibility and power-production from biomass through material development and corrosion prediction		Torbjörn Jonsson, Chalmers
KME 805		Höganäs, MH Engineering, Mälarenergi, Energiforsk	Uta Klement, Chalmers





Status and what happens now?

- Five ongoing projects
- Process to form consortium ongoing
- Process to elaborate project agreements ongoing
- Signals Energy Agency plan to merge the two programmes
 - **≻**Biopower
 - >Turbines for future
- New upcoming call end 2019
 - ➤ Time to start planning new projects!
 - ➤ What is missing? Think wide
 - ➤ Energiforsk facilitate and assist





Thank you for your attention



More information: www.energiforsk.se

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Material related programmes

