

2016 Integration of District Heating in a Sustainable Energy System

2016中丹可再生能源系统区域供热研讨会

– Technologies, Markets and Policies

—技术、市场与政策

主办 Hosted by

中丹科研教育中心 Sino-Danish Center

国际铜业协会 International Copper Association(ICA)

协办 Sponsored by

北京四季沐歌太阳能技术集团有限公司 Beijing MICOE solar technology group co., LTD

承办 Organized by

国际金属太阳能产业联盟 International Metal Solar Industry Alliance (IMSIA)

中国 北京 CHINA Beijing

October 2016



PRACTITIONER-RESEARCHER SEMINAR DISTRICT HEATING IN A FUTURE ENERGY SYSTEM

The Oriental Garden Hotel Beijing, 17 – 18 October 2016

Dr. Birte Holst Jørgensen

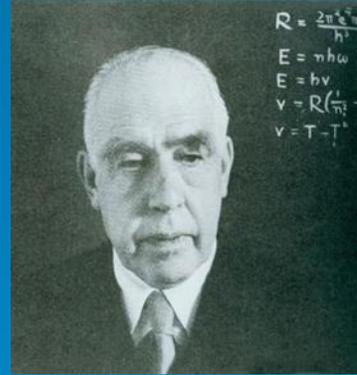
Principal Coordinator SDC Sustainable Energy

LONG TERM KNOWLEDGE SHARING

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1937年6月波尔教授参观北平研究院物理所



Niels Bohr visited the Physical Institute in 1937

65 YEARS OF DIPLOMATIC RELATIONS

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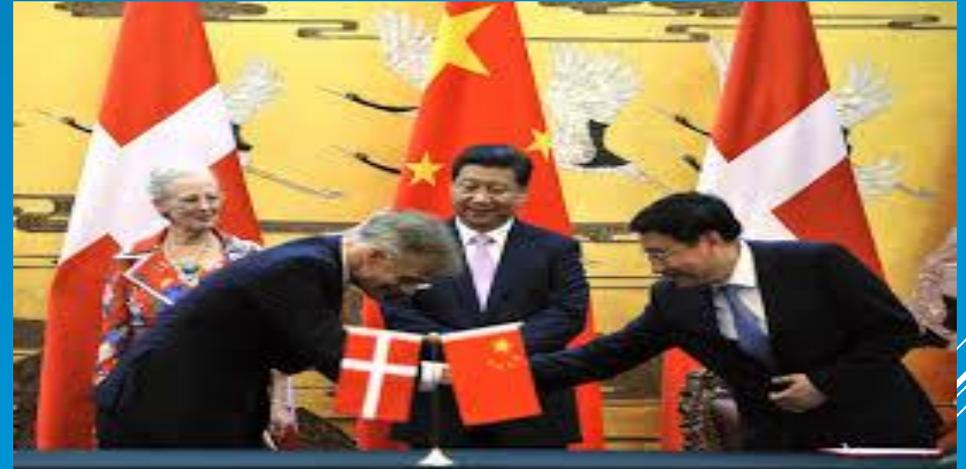
ONE WORLD ONE ENERGY DREAM

- ▶ Assure energy security of supply
- ▶ Combat environmental degradation and climate change
- ▶ Create sustainable economic growth



SINO-DANISH ENERGY COOPERATION AGREEMENTS

Under the presence of her Majesty Queen Margrethe and President Xi Jinping, further Memorandums of Understanding were signed between National Energy Administration and the Danish Energy Agency, 24 April 2014



1. National Energy Administration (NEA)

Underlines and support the cooperation with CNREC, 2014 (2012)

2. Ministry of Housing and Urban-Rural Development (MoHURD)

Cooperation on energy efficiency in buildings, 2014

3. National Energy Conservation, 2014

4. Ministry of Science and Technology (MoST), 2013

Cooperation on development and demonstration projects

WHAT IS SDC ABOUT?



- to promote and strengthen collaboration between Danish and Chinese learning environments
- to increase mobility of students and researchers between Denmark and China through joint master's education and research collaboration.

HIGH-LEVEL POLITICAL SUPPORT

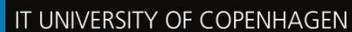


Signing ceremony, April 12, 2010.

Chinese Premier Wen Jiabao and Danish Prime Minister Lars Løkke Rasmussen, Prof. Bai Chunli, President of the CAS and the UCAS, Danish Science Minister Ms. Charlotte Sahl-Madsen and Prof. Jens Oddershede, Chairman of Universities Denmark

PARTNERS

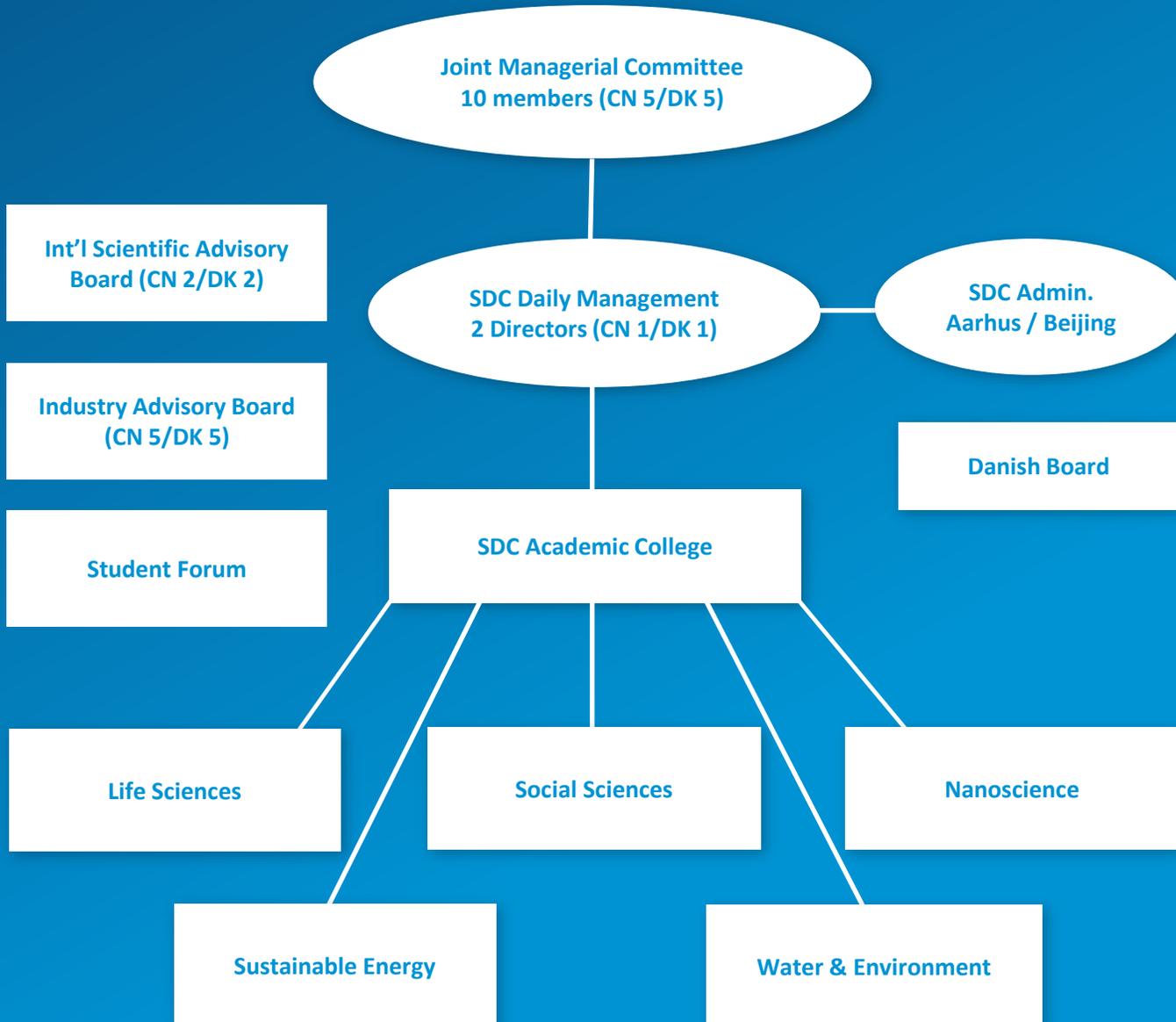
Danish partners



Chinese partners



ORGANISATION



SDC SUSTAINABLE ENERGY MANAGEMENT

SDC 中国 丹麦
科研教育中心
Sino-Danish Center



Danish Principal Coordinator
Birte Holst JØRGENSEN
Senior Scientist

DTU Management Engineering



Chinese Principal Coordinator
ZHANG Hongxun

Executive Dean, Professor
College of Resources and Environment,
University of Chinese Academy of
Sciences



Danish Head of Education
Kim Dam JOHANSEN
Professor, Head of Department

DTU Chemical Engineering



Chinese Head of Education
Suojang Zhang
Professor, Director of Institute of Process
Engineering (IPE), CAS

THE HOUSE OF THE DANISH INDUSTRY FOUNDATION

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科研教育中心
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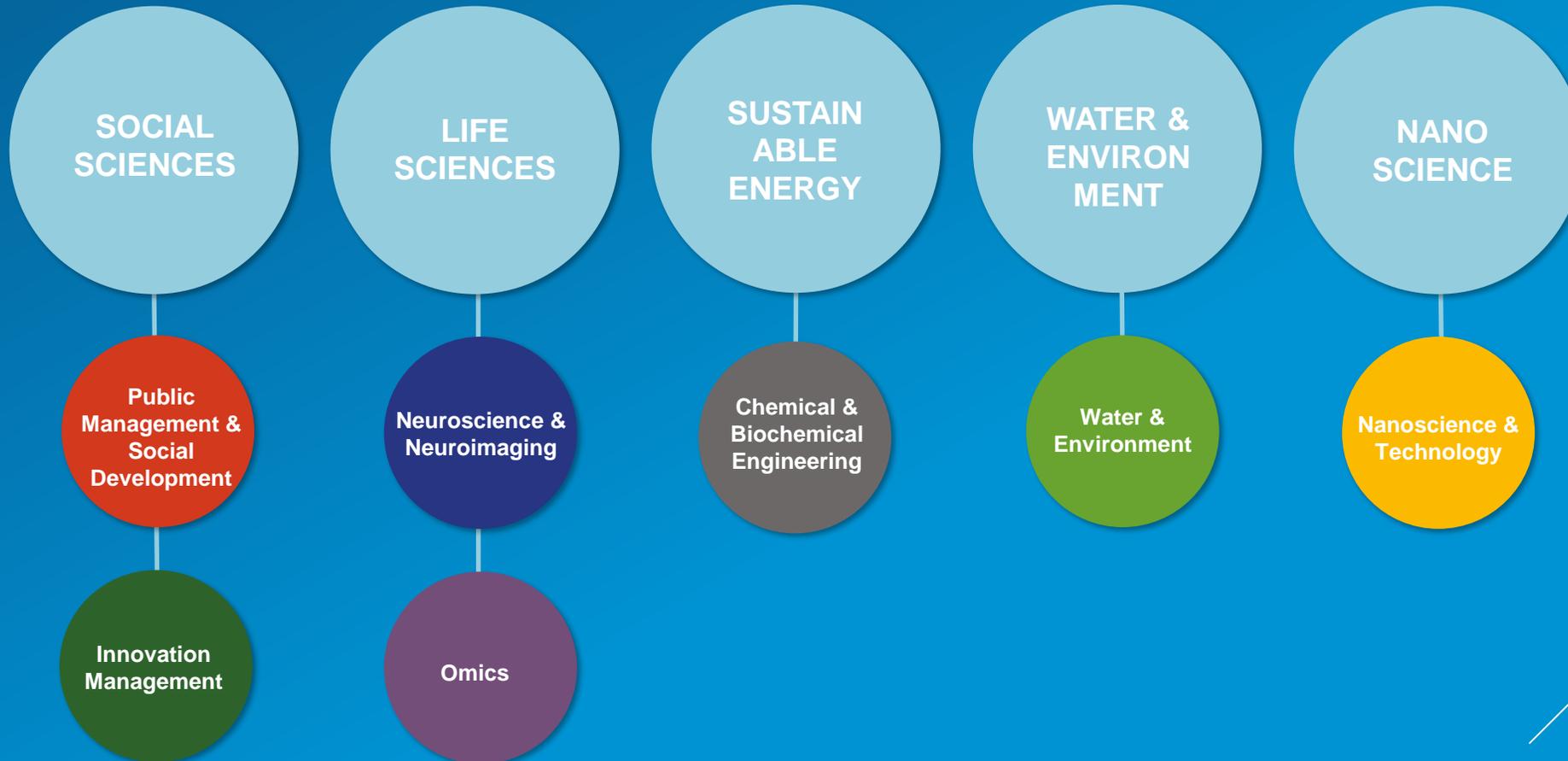


Her Majesty the Queen breaks ground for
The House Of The Industry Foundation



Located in the new UCAS Yanqihu Campus
80 km from central Beijing

RESEARCH & EDUCATION



EDUCATION



- 545 Master's students enrolled since 2012
- 7 unique Master's Programmes
- Full Master's Degrees (120 ECTS)
- Double Degrees
- Danish and Chinese students

COOPERATION WITH INDUSTRY

SDC 中國丹麥
科研教育中心
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Company visit

Haldor Topsoe Tianjian (Oct)

Progress in Research lectures

Haldor Topsoe (Sep)

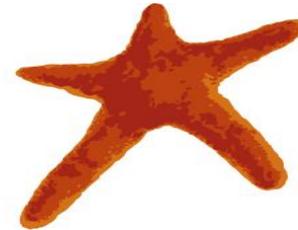
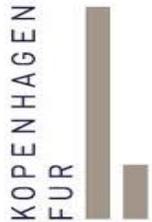
Novozymes (Oct)

Internship

Haldor Topsoe (2 students)

Novozymes (2 students)

Cooperation with industry



RESEARCH



- PhD projects (191 since 2011)
 - Danish PhD candidates going to CAS institutes and universities
 - Chinese PhD candidates going to Danish universities
- SDC PhDs engaged in SDC Master's teaching
- Double PhD degrees under negotiation
- Research summer schools and seminars
- Shorter or longer research stays by researchers
- Publications and co-publications

“If you think in terms of a year, plant a seed;
if in terms of ten years, plant trees;
if in terms of 100 years, teach the people.”

Confucius

THANK YOU FOR YOUR ATTENTION

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