SET PLAN Conference 2015

Research, innovation and competitiveness for the Energy Union

LINKING RESEARCH AND EDUCATION FOR A MORE COMPETITIVE, LOW-CARBON SOCIETY

Professor Torbjørn Digernes,
Chair of EUA-EPUE

SESSION 2

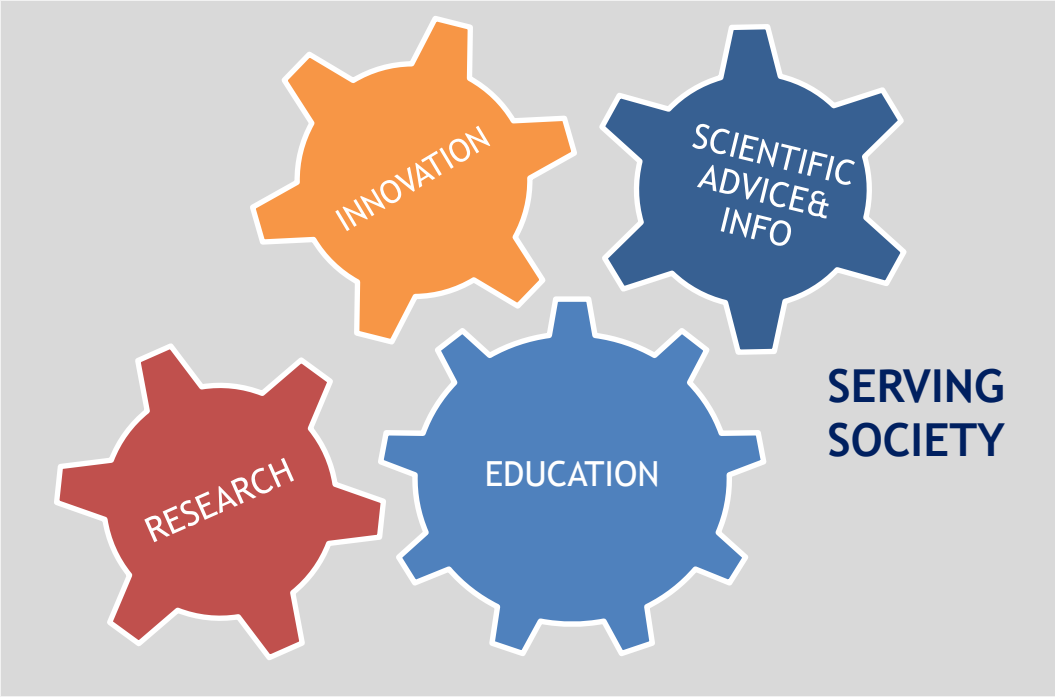
Towards a competitive European energy technology sector

Monday 21 September 2015

THE CHALLENGES TO REALISE THE EU ENERGY OBJECTIVES

- Research breakthroughs that can
  - improve the competitiveness of **existing technologies**
  - become the basis for innovations that offer **new solutions**
  - enable the **required societal change**
- **Upgrade competencies** in the existing work force to adopt new technologies for the overall benefit of society
- **Develop new human talent** that can strengthen the innovation processes
- Create scientific evidence-based **policy-making**
- Inform and engage **civil society**

THE ROLE OF UNIVERSITIES



EUA-EPUE
European Platform of Universities in Energy Research & Education

2009
Observer in EERA ExCo

2010
Survey: university-based energy research &education

2012
- Inaugural meeting
- Contribution to SET-Plan Education& Training Roadmap

2014
Start UNI-SET FP7 project

uniSET
UNIVERSITIES IN THE SET-PLAN

This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 609838.

PHASE I (EUA)
- Universities Survey
- University Mapping (2015 and beyond)

PHASE I (KU Leuven)
- Employers Survey & Profile Identification Workshops (2015)

PHASE II
- Energy Clustering Events

EUA
European University Association

KU LEUVEN

eit Knowledge & Innovation Community
KIC InnoEnergy

UNIVERSITIES CONTRIBUTING TO ENERGY POLICY MAKING

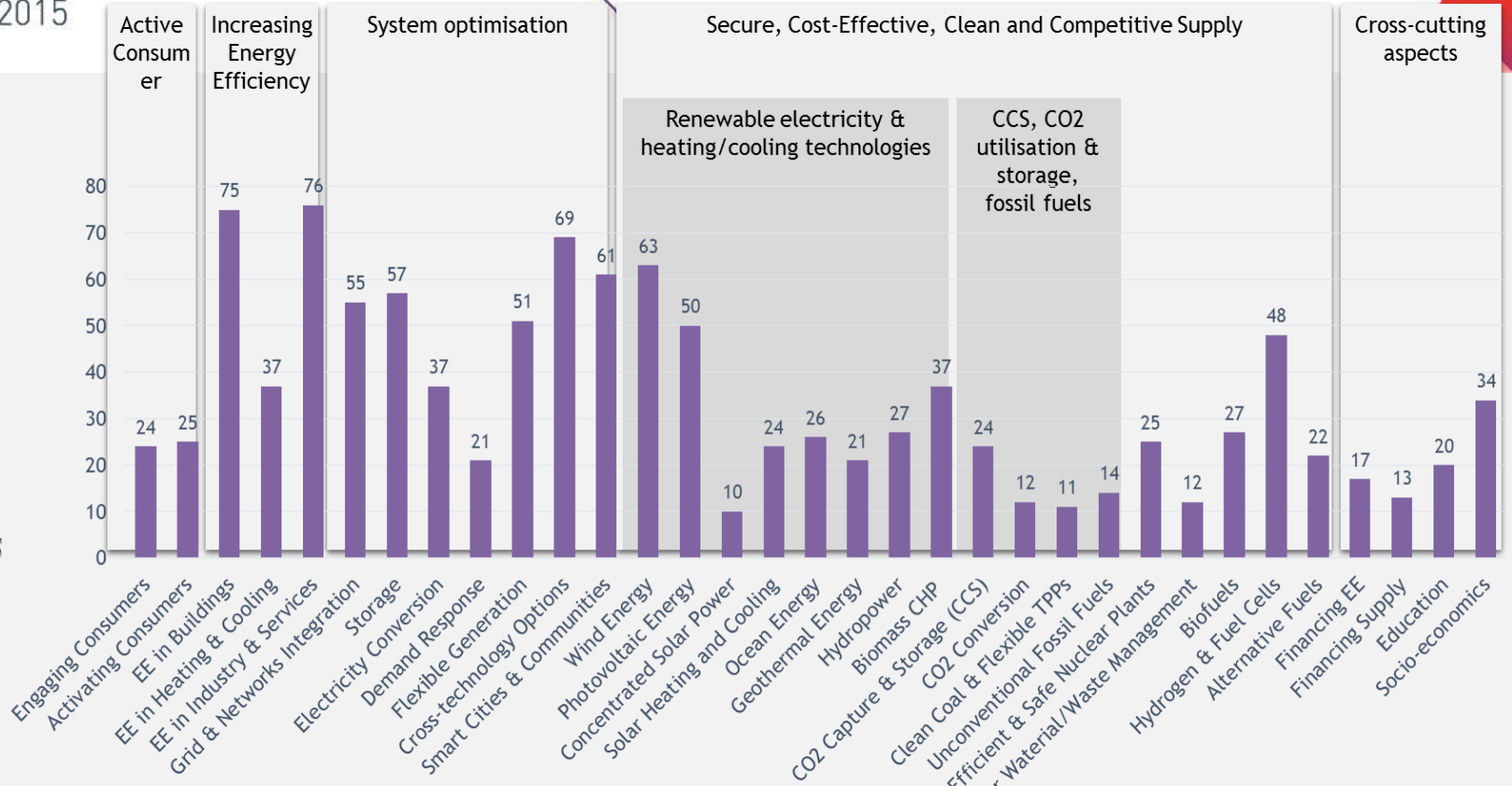
- EUA-EPUE role in EU policy making:
  - Contribution to SET-PLAN Education and Training Initiative through the mobilisation of almost 100 university experts
  - Contribution to the SET-Plan Integrated Roadmap & Action Plan.
  - Coordinated EUA input to the recently published SET-Plan Communication.

- The network created by the UNI-SET project, exceeding 100 universities, will be able to muster a very wide range of competencies that can lead to a new generation of Master, Doctorate and Research programmes as well as to provide enhanced input to EU energy policy development processes.

UNIVERSITIES OFFER MASTER PROGRAMMES IN SET-PLAN

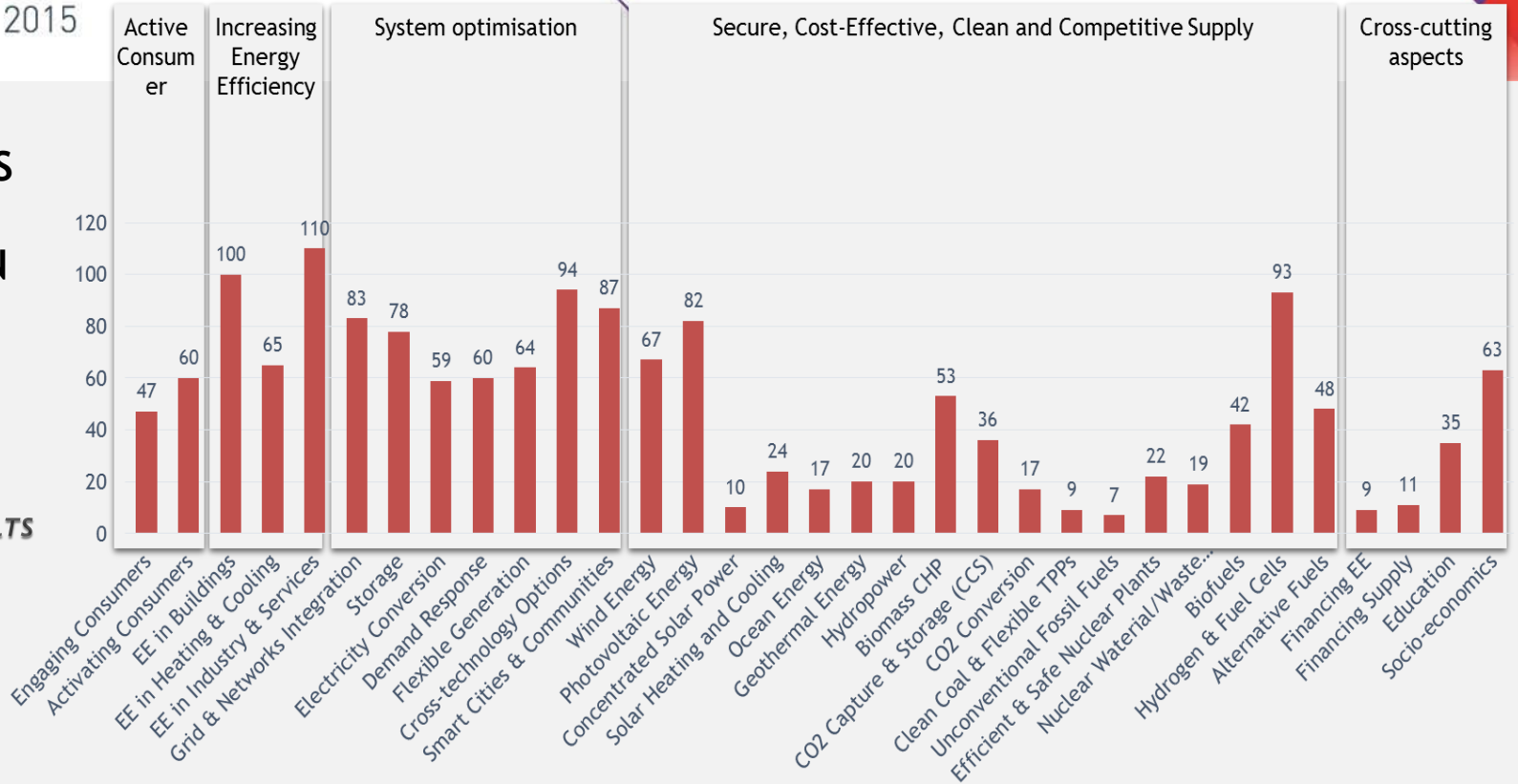
PRELIMINARY RESULTS

EUA-EPUE Survey 2015 (1st phase)



n of programmes = 435; max. 5 areas per

UNIVERSITIES CONDUCT RESEARCH IN SET-PLAN

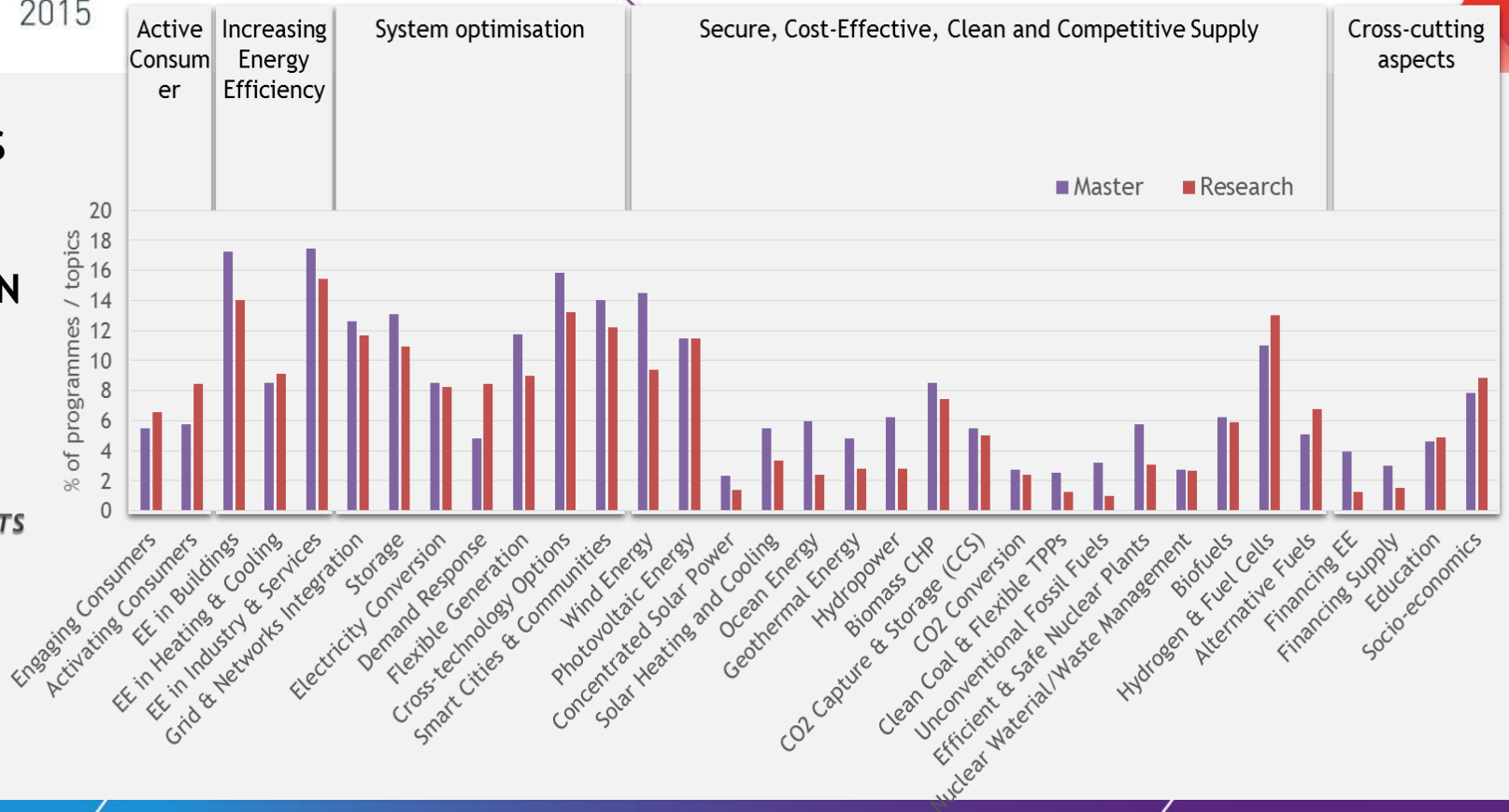


PRELIMINARY RESULTS

EUA-EPUE Survey 2015
(1st phase)

n of programmes = 713; max. 5 SET-Plan areas per programme

UNIVERSITIES LINK RESEARCH & EDUCATION IN SET-PLAN



PRELIMINARY RESULTS

EUA-EPUE Survey 2015
(1st phase)

PUT YOUR UNIVERSITY ON THE MAP!

EUROPEAN ATLAS OF UNIVERSITIES IN ENERGY RESEARCH & EDUCATION

For more information go to

www.uni-set.eu

uni-set@eua.be

@uniset_fp7

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MOBILISING UNIVERSITIES TO BETTER EXPLOIT THEIR CAPABILITIES

- Creating and updating state-of-the-art energy education programmes
- Integrating energy education, cutting edge research, and innovation
- Students educated in this triangle can be forceful disseminators of new research based knowledge, innovators and change agents in society
- Stimulating multidisciplinary energy education & research collaboration
- Strengthening scientific contribution in energy policy making
- The UNI-SET project has an ambition to be a catalyst in this process

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UNIVERSITIES IN THE SET-PLAN

Creating the European Atlas of Universities in Energy Research& Education

- UNI-SET Universities Survey
- http://universities.uni-set.eu

Bringing in the voice of the energy sector employers

- UNI-SET Employers Survey
- http://employers.uni-set.eu

Strengthening the role of universities in energy policy making

- UNI-SET Energy Clustering Events (ECEs)
- 1st ECE: 24-26 Feb 2016, Trondheim, Norway, NTNU
- 2nd ECE: Sept 2016 – Politecnico di Torino
- 3rd ECE: Nov 2016 – Politechnical University of Bucharest
- 4th ECE: March 2017 – Imperial College London
- 5th ECE: May 2017– KU Leuven

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