



European Energy Research

seen from EUA

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Summary from EUA conference Leuven 1st-2nd June 2017



- Conference totally dominated by technology and natural science
- «Few» universities were represented, four Norwegian (UiB, UiO, NTNU and UiS)
- Torbjørn Digernes, NTNU, is chair





Hot topics

- Smart grid
- Smart cities
- EV (electrical vehicles)
- Living labs and demonstrations
- Energy union
- Inter-disciplinary and multi-disciplinary projects
- Dissemination and impact on the society





Education

- Problem based learning
- Profile: Narrow or wide
- How to include social science/economics/law?
- Lifelong learning
- Who are to employ the candidates?
- Adaption to the needs from the industry and public sector
- Recruitment and motivation of students
- Some promising initiatives for new master programmes and cooperation





Report from Parallel Sessions, 1 June 2017

	- Institutional Initiatives for Energy Research -	
	<i>Cross- disciplinary Challenges</i>	<i>Cross- disciplinary Opportunities</i>
Research & Education	<ul style="list-style-type: none"> -Strengthen energy research -Develop Graduate School & thematic platforms -Encourage multidisciplinary -Addressing Energy & Climate altogether (energy transition) -Knowledge transfer from oil&gas to sustainable&renewable -Combining Research – Education - Industry 	<ul style="list-style-type: none"> -Exchange program for PhD candidates -MSc Energy Science and Engineering -5 different alternatives for the students to take (technical/societal, specialist/generalist, applied/theoretical, ...) -Bergen Energy Lab -Research Network for Sustainable Energy -Campus Smart Energy Hub -New Master in Energy, Environment and Society
Cooperation	<ul style="list-style-type: none"> -Funding schemes for wide multidisciplinary concepts -Coordination in UiB and cooperation with other Universities in Bergen -Transversal approach for energy education in the future: on thematics (energy+maths and sciences+humanities+social sciences+law) and on actors (industry, government, research institutes, financial sector) -Interdisciplinary cooperation 	<ul style="list-style-type: none"> -National funding -Weekly informal lunch gatherings -5 focus areas: energy efficiency, renewable energy, transition, CCUS, smart cities -Project-based education at campus together with industry
Outreach to society	<ul style="list-style-type: none"> -Applying results for the industry, citizens and territories -Making understandable the energy transition for the society -Facing the transition of Norwegian economy 	<ul style="list-style-type: none"> -3 start-ups -Weekly informal lunch gatherings (open to citizens, free of charge) -Newsletter -Living lab, workshops, representation in the municipality and other forums, active in social debates





Challenges

- Technology focus – little focus on assessment of renewable resources
- True cooperation between natural science and social science is hard to achieve
- Merit system and assessment of applicants may hamper inter-disciplinary cooperation
- Impact on the society requires a long-term effort and a new mind-set





Action points and further work

- Social readiness level, maybe combined with TRL in order to be a readiness level.
- Prepare for Mission Innovation

