

HydroBalance User Meeting 2017

11th-12th September 2017

At Norwegian Institute for Nature Research (NINA), NTNU Campus Gløshaugen, Høgskoleringen 9, Trondheim

Monday, 11th September at NINA

11.30 - 12.30 Lunch at NINA

12.30 - 12.45 Welcome, introduction and project status Michael Belsnes, SINTEF Energy Research

12.45 - 13.45 Roadmap and discussion

- 12.45 **Presentation of the Roadmap** *Michael Belsnes, SINTEF*
- 13.30 Questions

13.45 - 17.00 Project results and discussion

 13.45 WP2 Impact of increased capacities in Norwegian hydropower on the future Europe power system Ingeborg Graabak, SINTEF and Magnus Korpås, NTNU
14:30 Questions and discussion

14.45 – 15.00 Break

- 15.00 WP3 Modelling and analyses to develop relevant business models: summary of activities Ove Wolfgang, Arild Lote Henden, SINTEF Energy Research
- 15.30 WP3 Results from the COMPETES model in two research projects: Impacts of transmission capacities on price variability in Europe (HydroBalance/WP3), and analyses of market for flexibility in the Netherlands (Flexnet) Marit van Hout, ECN, Netherlands
- 15.45 Questions and discussion
- 16.00 Panel discussion: Value creation from hydropower; HydroBalance or domestic industry Moderator: Atle Harby
- 17.00 End of day 1
- 19.00 Dinner in Trondheim Centre (Emilies ELD)



Centre for Environmental Design of Renewable Energy

Tuesday, 12th September at NINA

- 08.30 11.30 Result presentation followed by discussions.
 - 08.30 WP1 HydroBalance, CEDREN og scenarier Håkon Sundt, SINTEF
 - 09.00 Questions and discussion
- 09.15 09.30 Break
 - 09.30 WP 4 Environmental effects of water level fluctuations in reservoirs what do we know? Ingeborg Helland, NINA
 - 10.15 Questions and discussion
 - 10.30 WP 5 Societal acceptance and regulatory framework; lessons learnt Oddgeir Andersen, NINA
 - 11:00 Questions and discussion
 - 11.15 Final word
- 11.30 12.30 Lunch at NINA (Persons that join the HydroCen meeting will have lunch at Scandic Lerkendal)
- 12.30 End of the meeting

Facts about HydroBalance

Title: HydroBalance, Large-scale balancing and energy storage from Norwegian hydropower

Project host: SINTEF Energy Research on behalf of CEDRENStart:9-2013End:9-2017

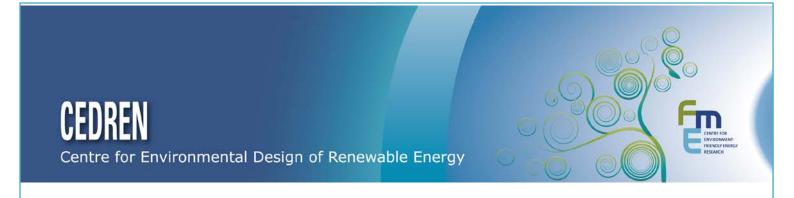
Finances: 25 million NOK

Partners: CEDREN Industry Partners, European industry, TSOs, authorities, R&D partners: CEDREN, selected international universities and institutes

Project leader:	Michael Belsnes, SINTEF Energy Research	
Project Coordinator:	Julie Charmasson, SINTEF Energy Research	
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Website English:	http://www.cedren.no/english/Projects/HydroBalance	
Website Norsk:	http://www.cedren.no/Prosjekter/HydroBalance/	

Work-Packages

WP1	Roadmap for energy balancing from hydropower	Julie Charmasson, SINTEF Energy Research
WP2	Demand for energy balancing and storage	Magnus Korpås <i>, NTNU</i>
WP3	Modelling and analyses to develop relevant business models	Ove Wolfgang, SINTEF Energy Research
WP4	Environmental impacts of new operational regimes	Ingeborg P.Helland, NINA
WP5	Social acceptance and regulatory framework	Oddgeir Andersen, NINA
WP6	Management	Michael Belsnes, SINTEF Energy Research



Monday 11th September 19.00

Emilies ELD Restaurant & Bar

Kongens gate 30, 7012 Trondheim, +47 479 31 000

