

## HydroBalance User Meeting 2017

11<sup>th</sup>-12<sup>th</sup> September 2017

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

### Monday, 11<sup>th</sup> September at NINA

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**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)**



## Tuesday, 12<sup>th</sup> September at NINA

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### **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

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

**Project host:** SINTEF Energy Research on behalf of CEDREN

**Start:** 9-2013

**End:** 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

**Website English:** <http://www.cedren.no/english/Projects/HydroBalance>

**Website Norsk:** <http://www.cedren.no/Prosjekter/HydroBalance/>

### Work-Packages

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

Monday 11<sup>th</sup> September 19.00

## Emilies ELD Restaurant & Bar

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

