

Hydro Summit – Trondheim 5th- 6th February 2020
Program for Breakout Session 1, Hydropower Optimization

Hydropower Workshop Day 1 – Breakout session		
Date	Wednesday February 5th 2020	
Hydropower operations, value, and application of optimization models by industry (Chaired by Michael Belsnes)		
Time	Title	Speaker
12:30	Welcome, today's program	Michael Belsnes, SINTEF
12:40	Overview from Norway: Market, planning hierarchy and models Norway/Nordics	Birger Mo, SINTEF
13:10	Overview from US: HydroWIRES portfolio Hydropower Value Study Background on US Markets	Samuel Bockenbauer, DoE Abhishek Somani Audun Botterud
13:50	Hydro Optimization tools -implementation, application and challenges for the future	Eirik Mo, Statkraft
14:20	Pumped Storage Valuation Guidebook, application to the proposed new Goldendale and Banner Mountain pumped storage sites	Sam Bockenbauer, DoE
14:45	Coffee break	
15:05	The decision process when investing or reinvesting in a hydropower plant	Ellen Krohn Aasgård, SINTEF
15:30	Discussion in smaller groups on the role of hydropower in future power systems and challenges to operation and investments.	Linn Emelie Schäffer, SINTEF (Moderator)
16:30	Wrap-up, short summaries from discussions	Michael Belsnes, SINTEF
Hydropower Workshop Day 2 – Breakout session		
Date	February 6th 2020	
Developing new models and improving model capabilities (Chaired by Michael Belsnes)		
Time	Title	Speaker
09.00	Welcome and short summary from yesterday	Michael Belsnes, SINTEF
09:10	The role of AI in hydropower optimization	Hans Ivar Skjelbred, SINTEF
09:30	Production cost model workshop, hydropower representation in production cost models	Greg Brinkman
09:50	Questions and discussion from presentations	Hans Ivar Skjelbred, SINTEF (Moderator)
10:15	Coffee break	
10:30	Modelling challenges for hydropower in renewable power systems	Stefan Jaehnert, SINTEF
10:50	North American Renewable Integration Study	Greg Brinkman
11.10	Questions from presentations Discussion: Common Research Challenges	Michael Belsnes, SINTEF (Moderator)
12.00	Lunch and closing of workshop (Room: C201) Plenary session with lunch and takeaways from each session	
13:00	Closing of workshop	