

Hydro Summit – Trondheim 5th- 6th February 2020
Program for Breakout Session 3, Environmental Conditions

Hydropower Workshop Day 1 – Breakout session				
Location	Room Watzinger, NTNU Campus		Date	February 6 th 2020
Challenges and innovations for improving environmental conditions in hydropower rivers				
Time	Title	Speaker		
12.30	Environmental design of hydropower. New developments and examples	Line Sundt-Hansen, NINA		
12.45	Hydropower and River Ecology - Current developments in fish protection	Markus Aufleger, University of Innsbruck		
13.00	Monitoring and handling of over-saturated gas downstream of power plants case studies from the Columbia River	Dana McCoskey & Daniel Deng, Pacific Northwest National Laboratory		
13.15	Mitigating impacts on fish from super-saturation caused by hydropower	Sebastian Stranzl, NORCE		
13.30	Discussion			
14.15	Coffee break			
Two-way safe fish migration and innovative methods				
Time	Title	Speaker		
14.45	Fish Passage Technology R&D and Standard Modular Hydropower	Dana McCoskey, US Department of Energy		
15.00	"The hundred-year war" between hydropower and fish migration is history! What do we know and what can we do?	Ana Silva, NINA		
15.15	The Vortex Power Plant	Torsten Heyer, University of Dresden		
15.30	From remote sensing to modelling impacts of hydropower. Innovative techniques & applications	Knut Alfredsen, NTNU		
15.45	Discussion			
16.30	Demonstration of FITHydro wiki	Bendik Hansen, SINTEF		
17.00	End of workshop day 1			
Hydropower Workshop Day 2 – Breakout session				
Location	Room Watzinger, NTNU Campus		Date	February 6 th 2020
Mitigation measures for improved environmental conditions and increased power production				
Time	Title	Speaker		
09.00	Overview and examples of mitigation measures implemented by Statkraft	Tone Knudsen, Statkraft		
09.15	Potentials in a large-scale hydro power river	Johanna Normark, Skellefteå kraft		
09.30	Overview and examples of mitigation measures implemented by Vattenfall	David Aldvén, Vattenfall		
09.45	Environmental Benefits from Flow Management & Power System Trade-offs	Brenda Pracheil, Oak Ridge National Laboratory		
10.00	Coffee break			
10.30	Mitigation measures in Sweden	Johan Kling, Swedish Agency for Marine and Water management		
10.45	Cost-effective mitigation measures	Ana Adeva Bustos, SINTEF		
11.00	Discussion and wrap-up			
12.00	Lunch and closing of workshop (Room: C201) Plenary session with lunch and takeaways from each session			
13:00	Closing of workshop			

