WEBINAR

EXPLORING WASTE HEAT RECOVERY POTENTIALS AND
TECHNOLOGIES FOR THE ALUMINIUM INDUSTRY

2 March 2022

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EUROPEAN ALUMINIUM

9:00	Welcome and introduction	Co-Chair(s) / Director General
9:10- 10:45	**Session 1 – Overview on potentials, policy context and fundamentals of energy recovery** **Moderator: Nancy Jorunn Holt, Hydro**	
9:10	Mapping Waste Heat Recovery (WHR) potentials along the aluminium value chain	Christian Leroy, European Aluminium
9:30	Assessing the EU's 2030 Climate and Energy Policy framework: implication for the energy recovery context	Pauline Lucas, Euroheat & Power
10:00	Fundamentals and practical issues related to energy recovery from aluminium primary metal production	Petter Nekså, SINTEF Energy Research
10:45 – 11:15 coffee Break		
11:15 – 13:00	**Session 2** – Focus on industrial technologies for low and medium temperatures applications. **Moderator: Philippe Meyer, Novelis**	
11:20	Developing WHR industrial applications: From macro-scale to micro-scale optimisation	Jean-François Fourmigué, CEA-tech
11:50	Waste heat to power based on ORC technology – Medium to High power case	Sabrina Santarossa, TURBODEN
12:20	Waste heat to power based on ORC technology – Low to medium power case	David Frykeras, Againity
13:00 – 14:00 Lunch Break		
14:00 – 16:00	**Session 3** – Overview on key European related projects in Al and other industrial sectors **Moderator: Efthymios Balomenos, Mytilineos**	
14:00	**ETEKINA -**Improving energy efficiency by applying innovative heat pipe technologies	Prof. Hussam Jouhara, Brunel University
14:30	**CO2OLHEAT -** Supercritical CO2 power cycles demonstration in Operational environment Locally valorising industrial Waste HEAT	René Vijgen, Project manager, ETN Global
15:00	**HeatLeap** - Innovative Large Heat Pump (LHP) to recover energy from low temperature sources: production of hot water (project) or steam	Andrea Barbon, TURBODEN
15:30	**ReOrgAl -**Increasing the energy and resource efficiency of the recycling of organic-contaminated aluminium scrap by using pyrolysis	Marius Philipp, RWTH, Aachen
16:00-16:15	**Conclusions – wrap-up of 1ˢᵗ day by moderators**	