

EUREC MASTERS PRESENTATION DAYS - 14 and 15 December 2020

DAY 1

EMRE											
Monday 14 December - Breakout room 1				Monday 14 December - Breakout room 2				Monday 14 December - Breakout room 3			
Time	Name	Project title	Jury (core/spe/third unit)	Time	Name	Project title	Jury (core/spe/third unit)	Time	Name	Project title	Jury (core/spe/third unit)
09:00	Fatimata Bintou Diallo	Sizing and integration of PV plants in grids of Senegal countries: the case of Senegal	OR GI MInco	09:00	Lucy Otaechea - CONFIDENTIAL	How soiling affects PV panels - CONFIDENTIAL	ZARA PV SF	09:00	Aravind Raj Charanikattu Devaraj	Evaluation on effect of the Novel Reflector Geometry on Electrical and Thermal Parameters of the GTR collector	HZ Wind LBO
09:40	Aakash Sharma	Investigation of Voltage Quality in Distribution Grids with Unbalanced Loads at Domestic Installation Level	OR GI MInco	09:40	Daniel Camacho - CONFIDENTIAL	Research and Characterization of optimal photovoltaic systems for installation in buildings of communities in Spain - CONFIDENTIAL	ZARA PV SF	09:40	Egor Loktionov - CONFIDENTIAL	Performance analysis and design improvement of airfoils for small scale domestic wind turbines operating at low Reynolds numbers - CONFIDENTIAL	HZ Wind LBO
10:00	Javier Enrique Sanbóval	Estimation and simulation of a gas demand time series for the European NUTS-3 regions	OR GI MInco	10:00	Francisco Javier Espasandín López-Vázquez	LVMV Design and energy study production of a 5 MW PV Plant in Northern Spain	ZARA PV SF	10:00	Ander Molinero Fernandiz	Preliminary design of a floating wind deinstallation system	HZ Wind LBO
11:00	BREAK			11:00	BREAK			11:00	BREAK		
11:15	Jorge Rodríguez Serra	Feasibility study for the deployment of a microgrid in an office building in the 22 nd district in Barcelona	ZARA GI Wind	11:15	Maiara Montalvo	Optimization of the Fused Mirrors focalization and creation of an equipment monitoring tool	Wind PV SF LBO	11:15	Mhd. Wael Chamout	Simulation and analysis of a hybrid hydrogen-battery renewable energy storage for a stand-alone system	HZ SF PV
11:55	Nelson Graça	Advanced Methodologies and Tools to Assess the Technical-Economic Impacts of Storage Technologies Implementation	ZARA GI Wind	11:55	Micaela Delgado	Modeling of the role of solar power plant	Wind PV SF LBO	11:55	Joseph Healey	Optimization of hydrogen production with directly coupled renewable energy electrolysis and gas-to-hydrogen buffering constraints	HZ SF PV
12:35	LUNCH BREAK			12:35	LUNCH BREAK			12:35	LUNCH BREAK		
13:50	Raquel Ribeiro	Impacts of the COVID-19 Induced Lockdown on the Mexican Power Sector	HZ GI MInco	13:50	Pratik Karale	Implementation of SA-BC (Spatial Alliances-BC)model in OpenCAM to analyze the boundary layer phenomena around an airfoil	OR Wind ZARA	13:50	Ulou Can Demir - CONFIDENTIAL	Development and Optimization of Building Integrated Photovoltaic Thermal (BIPV-T) Collector - CONFIDENTIAL	HZ PV OE
14:10	Michael Jones	Design of power electronic converters for the Blue Acid/Batter Battery (BlueBatt) technology	LBO GI MInco	14:10	John Alexander Parizaanan Acuna	Developing a tool-set to determine wind farm turbulence	OR Wind ZARA	14:10	Mikael Dolechiarz	Post-mortem analysis on a full size CES PV module	HZ PV OE
14:50	Maria Carolina Rojas Mora	Integration of Renewable Distributed Energy Resources in Rural Grids	LBO GI MInco	14:50	Barabeh Sarfar	Verification of the implementation of lidar measured wind fields in a wind turbine simulation	OR Wind ZARA	14:50	Carlos GJ Pison	Development of BiC Silicon Bottom Sub-Cells for Three Terminal Perovskite Tandem Devices	HZ PV OE
15:00	BREAK			15:00	BREAK			15:00	BREAK		
15:45	Carlos Carrasco - CONFIDENTIAL	Design of a Large Scale Wind Energy Facility in South Africa with a Battery Energy Storage System Implementation	ZARA Wind LBO	15:45	Carlos Alberto Navarro Vega - CONFIDENTIAL	Optimization of the performance of wind turbines by use of smart data - CONFIDENTIAL	HZ OE SF	15:45			
16:25	Léo Geoffroy	Offshore Wind Business Development in the United Kingdom	MInco OE GI	16:25				16:25			

SESYM											
Monday 14 December - Breakout room 4				Monday 14 December - Breakout room 5							
Time	Name	Project title	Jury (core/spe/third unit)	Time	Name	Project title	Jury (core/spe/third unit)	Time	Name	Project title	Jury (core/spe/third unit)
09:00	Odhran Croly	CMO Analysis of Domestic Deep Retrofits in Ireland - Current and Future Trends up to 2026	HZ SEM PIsa	09:00	Alex Puff	Simulation of the suitability of hydrogen hydride storage systems for stationary applications	HZ SIM ICT				
09:40	Stijn Goemine - CONFIDENTIAL	Analysis of the Levelized Cost of Energy (LCOE) of Blending Green Hydrogen at Different Rates in an Existing Combined Cycle Power Plant Located in Northern France - CONFIDENTIAL	HZ SEM PIsa	09:40	Bruce Fair	Data Center Waste Heat Reuse: An Amsterdam Case Study	HZ SIM ICT				
10:20	Victor Makkas	Techno-Economic Analysis of Hybrid Power and Desalination System focused on hydrogen in the island of Amoyeig	HZ SEM PIsa	10:20	Seyit Ahmet Abbas	Demand Modelling of heat pumps and EVs on household level	HZ SIM ICT				
11:00	BREAK			11:00	BREAK			11:00	BREAK		
11:15	Sebastian Antonio Gonzalez Nunez	Increasing the share of private finance sources in the wave energy sector: a study of gaps, risk transfer and levers for improved bankability	HZ SEM PIsa	11:15	Miquel Garcia Edo	Study on the implementation of Integrated SMART Grid Solutions-Replicability Assessment on Three Mediterranean Islands	HZ SIM ICT	11:15	David Calderon Villagas	Technical, environmental, and financial assessment for the optimal sizing of a run-of-river small hydropower project: A case study in Colombia	HZ SIM ICT
11:55	Siddharth Jain	Financial feasibility analysis of battery integration in Dutch low voltage grid to prevent overloading	HZ SEM PIsa	11:55				11:55			
12:35	LUNCH BREAK			12:35	LUNCH BREAK			12:35	LUNCH BREAK		
13:30	Felix Jung	Potential Environmental Benefit Analysis of Power-to-Methanol based on Additional Wind Power in Sweden as a Methanol Product and Marine Fuel - A Case Study	HZ SEM SIM	13:30	Sebastian Laga	Techno-Economic Feasibility Study of a Renewable Energy Community: Case Study of the Arctic Business Park in Flanders, Belgium	HZ ICT HZ	13:30			
14:10	Nicolas Cruz	Modeling Tool Design for a Chilean Carbon Budget	HZ SEM SIM	14:10	Nirmal Madhu	What are the techno-economic feasible possibilities to create a LEC on campus by interlinking different renewable energy technologies sited on Konjira Weide campus premises	HZ ICT HZ	14:10			
14:50	Nicole Senyica	Private Investment Opportunities in the Solar Photovoltaic Industry and the Supporting Tools of the Green Finance Market	HZ SEM SIM	14:50	Nicolae Patras	A Techno-Economic Optimisation of a Hybrid Energy System: Case of Slovenia	HZ ICT HZ	14:50			
15:00	BREAK			15:00	BREAK			15:00	BREAK		
15:45	Saskia Glink - CONFIDENTIAL	Development of a valuation concept and tool for decarbonization projects in the industry sector - CONFIDENTIAL	HZ ICT HZ	15:45				15:45			

DAY 2

EMRE											
Tuesday 15 December - Breakout room 1				Tuesday 15 December - Breakout room 2				Tuesday 15 December - Breakout room 3			
Time	Name	Project title	Jury (core/spe/third unit)	Time	Name	Project title	Jury (core/spe/third unit)	Time	Name	Project title	Jury (core/spe/third unit)
09:00	José Ignacio Fontán Álvarez García	Business Modelling and Development of Offshore Wind Farms	ZARA OE Wind	09:00	Cécile Gronlounan	Development and optimization of tools for hybrid power systems sizing	MInco PV GI	09:00	Chong Her	Preliminary wind resource assessment, feasibility study and excess energy dispatchability study for rural Alaska communities	HZ Wind LBO
09:40	Rebecca Weatherill	Building Energy Simulation with Incorporation of Renewable Energy: a path towards energy positive buildings	LBO OE Wind	09:40	Pablo Zamorano	Expected generation estimation based on historic generation of a PV plant	MInco PV GI	09:40	Marinos Alvarez de Arceja Monforte	Development of Reliability Centred Maintenance analysis of linear wave energy converter prototype	HZ Wind ZARA
10:20	Robin Adriano Marques Pais	Techno-Economic Analysis on direct wind-to-heat conversion	OR OE LBO	10:20	Hugo Schoen	Renewable Energy Integration through Hybrid and Micro Grid System	MInco PV GI	10:20	Georgios Venkios - CONFIDENTIAL	Uncertainty Classification & Calibration of Wind Turbine Aerodynamic Models - CONFIDENTIAL	HZ Wind ZARA
11:00	BREAK			11:00	BREAK			11:00	BREAK		
11:15	Marin BOUCHEZ - CONFIDENTIAL	Data based approach to identify possible effects of sea level rise on wind turbine mechanical components - CONFIDENTIAL	MInco Wind ZARA	11:15	Flavio Valosi - CONFIDENTIAL	Design and Simulation of a Ultra-High Temperature Thermal Energy Storage - CONFIDENTIAL	LBO PV OE	11:15	Marius Jakovlevs	Decarbonization of Chinese steel industry: Pathways to 2050 with Ultra Low CO2 Steelmaking (ALCOS) technologies	HZ SF GI
11:55	Tristan Lonsau	Assessing the LCOE of a commercial floating wind farm	MInco Wind ZARA	11:55	Fabian Liviano	Energy optimization of self-consumption using phase change material and comparing panels orientation for industrial freeze-drying applications	LBO PV OE	11:55	Edrick Tromp	Levelized cost minimization of hydrogen in a combined renewable hydrogen and electricity supply on neighborhood scale	HZ SF GI
12:35	LUNCH BREAK			12:35	LUNCH BREAK			12:35	LUNCH BREAK		
13:30	Alexandre Martin - CONFIDENTIAL	Floating offshore wind project assistant, responsible for local industrial content and harbor logistics - CONFIDENTIAL	MInco OE PV	13:30	Bernardo Figueiredo	Decentralised hydrogen storage for residential heating	OR SF Wind	13:30	Fabian Trujillo Pantoja	Techno-economic projection of microgrids as a renewable, solid and cost-effective solution to assure energy provisioning in Africa	HZ GI LBO
14:10	Antonio Ribes - CONFIDENTIAL	Feasibility study of a wave energy farm in Gran Canaria - CONFIDENTIAL	MInco OE PV	14:10	Aprameya Mathoudan	An LCA based Analysis and Optimization of a Banana Botulac Process for the scenario in India	LBO SF Wind	14:10	Alexander Events	The effectiveness of utilising community battery storage to reduce PV curtailment on the Dutch low voltage grid	HZ GI OE
14:50	Jean-Baptiste Ramos - CONFIDENTIAL	Development of Agrivoltaic plant with hydrogen storage in the Caribbean Islands - CONFIDENTIAL	MInco PV SF	14:50	Benjamin Piel	Prediction of Wave Characteristics using LSTM Neural Networks	LBO OE Wind	14:50	Usurash Agarwal	Grid code testing and capability assessment of V2G (Vehicle to Grid) operation of EV chargers	HZ GI OE
15:00	BREAK			15:00	BREAK			15:00	BREAK		
15:45	Maxime MOUBER	Development and performance analysis of a prototype of renewable energies and storage aggregator	MInco GI PV	15:45	Anika Fitz	Prediction of the Energy Use of Roll-on / Roll-off Cargo and Passenger Ferries and Assessment of Sustainable Energy Supplies	OR SF LBO	15:45	Maitane Ferreres Etxea	Modelling and Optimization of Combined Solar Driven Micro Gas Turbine	HZ SF Wind
16:25	Benoit Filiska	Techno-economic analysis of 2 photovoltaic systems on the same rooftop taking advantage from both self-consumption and grid selling French scenarios	MInco OE PV	16:25	Jigar Shah	Title TBC	OR Wind SF	16:25	Carla Carrara	Assessment of the Techno-Economic Viability for the Synergy between Wave Energy and Offshore Aquaculture along the Western Portuguese Coastline	HZ GI SFAR
17:05	Marco Wolthus	Validate & design a modular tower concept	HZ Wind SFAR	17:05				17:05			

SESYM											
Tuesday 15 December - Breakout room 4				Tuesday 15 December - Breakout room 5							
Time	Name	Project title	Jury (core/spe/third unit)	Time	Name	Project title	Jury (core/spe/third unit)	Time	Name	Project title	Jury (core/spe/third unit)
09:00	Sai Karri	Current and Future Low Carbon Gas Demand Model in Relation to Effective Temperature	HZ SEM ICT	09:00	Amran Wala	Towards 5th Generation District Heating and Cooling in Amsterdam III and Amsterdam	HZ SIM PIsa				
09:40	Harry Sayanios	Determining the feasibility of integrating heat pumps for heating and cooling processes in industry	HZ SEM ICT	09:40	Quilim Lim	Using hot for cold: Potential of thermal cooling in Amsterdam	HZ SIM PIsa				
10:20	Lauren Seibert - CONFIDENTIAL	Community Energy Storage: feasible energy balancing services from a local Dutch energy cooperative approach - CONFIDENTIAL	HZ SEM ICT	10:20	Bastien Jacqueroz	Potential Assessment of Energy Diversification and Market Arbitrage for Waste-to-Energy: Case of an Innovative Waste Incineration Plant in Suburban	HZ SIM PIsa				
11:00	BREAK			11:00	BREAK			11:00	BREAK		
11:15	Andrea Bosca	Sustainability disclosure as a business practice. The applied case of a solar energy company based in Sweden	HZ ICT PIsa	11:15	Alex Mazon	Assessment of the Potential for Renewable Energy Production in Agricultural Areas of Three Selected Communities in the Dolomites Considering Technical Potential, Viable Business Models and Social and Political Dimension	HZ SIM SEM	11:15			
11:55	Toon Stoot - CONFIDENTIAL	Energy transition towards CO2-neutrality by the recuperation of waste heat with (high-temperature) heat pumps - CONFIDENTIAL	HZ ICT PIsa	11:55	Simon Soete	Comparison study of hydrogen production methods for Cabriyri Group	HZ SIM SEM	11:55			
12:35	LUNCH BREAK			12:35	LUNCH BREAK			12:35	LUNCH BREAK		
13:30	Marius Dechand	Economic potential of sustainable district heating networks in the EU: Quantification and comparison of financial-economic frameworks in selected EU countries	HZ OE PIsa	13:30	Helena Villalmeva Biesco	Elaboration of a strategic Energy Transition Agenda for the island of Ameland (region of Fryslân)	HZ SIM SEM	13:30			
14:10				14:10	Ibren Feijen	Techno-economic assessment of on-site hydrogen production and utilisation in the Power bulb sector	HZ SIM PIsa	14:10			
14:50				14:50	Ana Lúcia de Barros Orsolin - CONFIDENTIAL	Indicators for Wave Energy Projects - A case study of a pilot wave farm in the Canary Islands - CONFIDENTIAL	HZ SIM PIsa	14:50			
15:30				15:30	Cora Schouten	The Urban Financial Metabolism: Quantifying the societal impacts of residential energy poverty in Groningen, the Netherlands	HZ SIM PIsa	15:30			