



This project receives funding in the European Commission's Horizon 2020 Research Programme under Grant Agreement Number 862597



## Final Workshop

January 31<sup>st</sup>, 2024 (9:00 – 15:00h, *CET*) - Online Meeting

ITEM	DURATION	PRESENTER
<b>InComEss Project</b> (Innovative polymer-based Composite systems for high-efficient Energy scavenging and storage)		
Welcome & InComEss overview	09:00 – 09:15	Dr. Cintia Mateo (AIMEN Technology Centre, PC)
Piezoelectric lead-free composites for mechanical energy harvesting	09:15 – 09:35	Dr. Amanda Melo (CENTI – Centro de tecnologia e materiais tecnicos e inteligentes)
Thermoelectric Generators: development from materials to module	09:35 – 09:55	Dr. Beate Krause (IPF – Leibniz-institute für Polymerforschung Dresden), Dr. Alina Zabnienska–Gora (Brunnel University London)
Wireless low power FOS interrogator	09:55 – 10:15	Vincent Docter (Photonfirst)
IoT solution: from Edge to Cloud	10:15 - 10:30	Dr. Marios Vlachos (ICCS - Institute of Communication and Computer Science)
Recyclability of InComEss generators	10:30 - 10:45	María Blecua (Fundación CIRCE Centro de Investigación de Recursos Energéticos)
InComEss contribution to future standardization	10:45 – 11:05	Carmen Martín (UNE - Asociación Española de Normalización)
<b>Coffee break</b>	11:05 – 11:20	
Printed Monolithic Supercapacitors	11:20 – 11:35	Prof. Matti Mäntysalo (Tampere University)



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Validation of InComEss-based Thermoelectric and Piezoelectric Energy Harvesting Systems in Aeronautic applications	11:35 – 11:55	Dr. Gabriele Voto (Société Nationale de Construction Aérospatiale SONACA SA)
Validation of InComEss-based Piezoelectric Energy Harvesting Systems in building applications: Structural Health Monitoring for building envelope	11:55 – 12:15	Laura Vandi (FOCCHI SPA)
Validation of InComEss-based Thermoelectric Energy Harvesting Systems in Automotive applications	12:15 – 12:35	Mauro Brignone (MARELLI Europe SPA)
<b>Coffee break</b>	12:35 – 12:50	
One-Step Melt Extrusion Compounding of Thermoplastic Polymer and Carbon Nanotubes for the Fabrication of thermoelectric Generators (TEGs) and its Recyclability	12:50 – 13:05	Dr. Minh Tran (NANOCYL SA)
New active materials in supercapacitors	13:05 – 13:20	Siim Küünal (Skeleton Technologies OU)
Business Cases for Energy Harvesting Systems and Wireless Sensors	13:20 – 13:35	Dimitris Eleftheriou (CORE Innovation and Technology OE)
The Macro Fiber Composite (MFC) for energy harvesting. MFC types, history and application guidance.	13:35 – 13:50	Thomas Daue (Smart Material GMBH)
<b>Coffee break</b>	13:50 – 14:05	
<b>ERHASE CLUSTER Session</b>		
<b>SYMPHONY Project</b> P(VDF-TrFE) based piezoelectric nanogenerators for energy autonomous sensor systems	14:05 – 14:20	Dr. Jonas Groten (Joanneum Research Forschungsgesellschaft mbH, PC)
<b>FAST-SMART Project</b> FAST and Nano-Enabled SMART Materials, Structures and Systems for Energy Harvesting	14:20 – 14:35	Prof. Yi Qin (University of Strathclyde, PC), M. Rostagno (GAE Engineering, Dissemination and Exploitation Manager)
<b>START Project</b> Conversion of secondary mineral resources into value-added products for energy harvesting systems	14:35 – 14:50	Dr. Filipe Neves (LNEG – National Laboratory of Energy and Geology, PC)
<b>CLOSING</b>	14:50 – 15:00	
<b>END OF EVENT</b>	15:00	