

SCOPE AND OUTCOMES OF THE ENSO PROJECT

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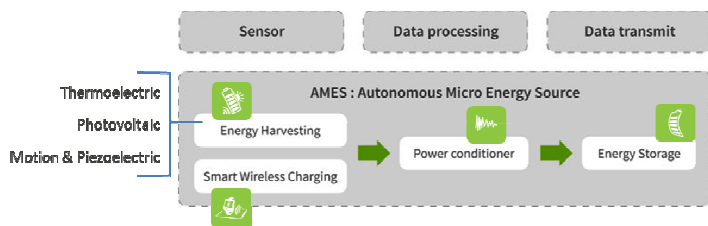
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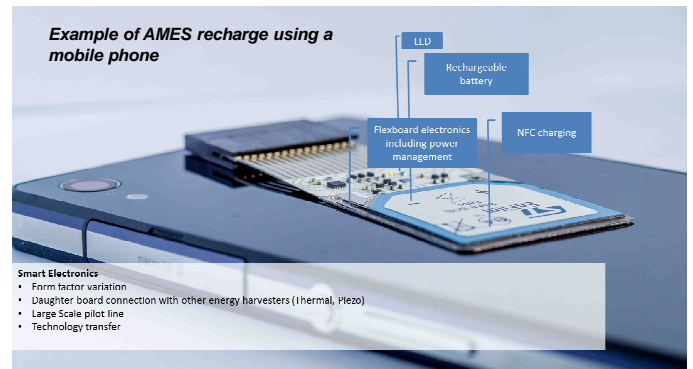
EnSO Main objectives

- Demonstrate the **competitiveness** and **manufacturing readiness** of EnSO energy solutions (AMES) in Europe
- Develop and demonstrate high capacity (up to 20 mAh) and high density (> 300Wh/l), low profile, shapeable, long time, rechargeable **micro battery product family** supported by efficient and reliable **energy harvesters** as well as **easy charging**
- Disseminate and **standardize EnSO energy solutions** with easy to use demonstration kits for a **large number of use cases**

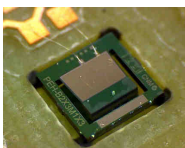
Autonomous Micro Energy Sources (AMES) concept



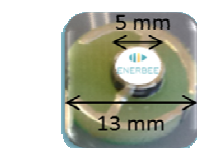
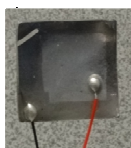
First AMES generation



Energy Harvester



Resonant and Non-Resonant Mechanical Energy Harvesting Power Supply



Motion-based Energy Harvesting Power Supply

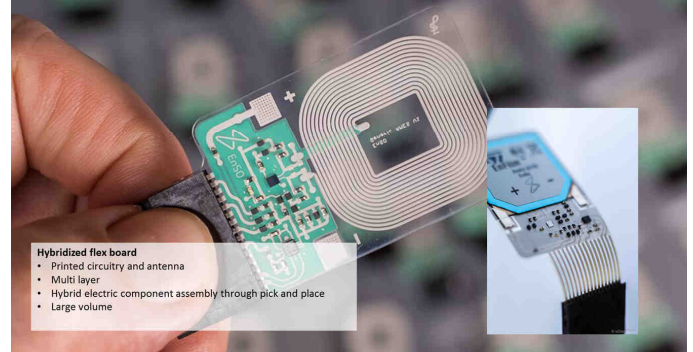


Indoor and outdoor photovoltaic Energy Harvesting Power Supply

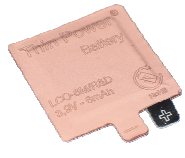
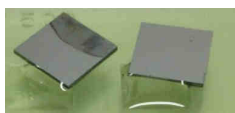
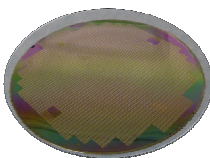


Thermo-electric Energy Harvesting Power Supply

Hybridized flex board on pilot scale



Energy Storage



Free Form Factor ultra-thin solid state lithium batteries (inorganic or polymer electrolyte solutions)

Consortium

