



## *Virtual Brokerage Event @ Innovation Village 2026*

**Introduction on Driving the Green Transition: Innovative  
Solutions for Energy and Sustainability**

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# Innovative Solution for the Green Transition

Innovation across the energy system



## CLEAN ENERGY

Renewables  
Electrification  
Low-carbon technologies



## FLEXIBILITY & STORAGE

Energy storage  
Demand response  
Sector coupling



## DIGITAL & SMART ENERGY

Smart grids – AI  
Forecasting – Digital twins  
Monitoring & optimisation



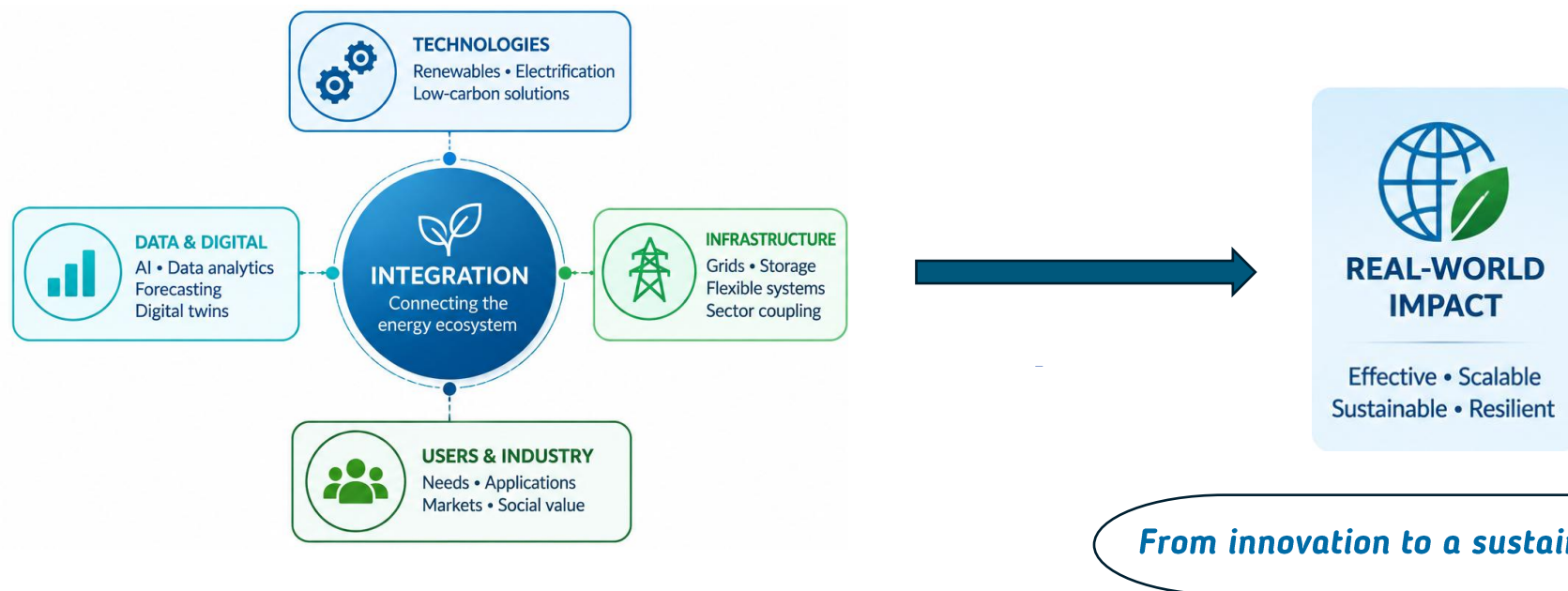
## EFFICIENCY & SUSTAINABILITY

Energy efficiency  
Resource optimisation  
Resilience & lifecycle impact



# Innovativation through Integration

Connecting technologies, systems and needs





# EEN – SGRE group and Energy Solution Catalogue

***SG Renewable Energy is the EEN group that is dealing with all aspects around renewable energies. The group is connecting experts from the Enterprise Europe Network with its clients and relevant stakeholders regionally, across the EU and international. Additionally, the group is offering capacity building related to political key issues.***

## Ecological conversion of conventional cars into hybrid solar vehicles

### Summary:

A group of Italian companies has developed some prototypes almost ready for industrialization (TRL 8/9), transforming conventional motor cars (Diesel, gasoline) into hybrid solar, by adding electric wheel motors in back wheels, a battery, and flexible solar panels. The system is patented in several countries. It allows the re-use of cars often in good conditions, reducing fuel consumption and emissions, both during their use and, further, within a LCA perspective.

### Advantages compared to current solutions:

- Cost reduction with respect to Hybrid Vehicle or Electric Vehicle: 20-40 %;
- Performance increase: 10 %.

### Other advantages:

- Vs Conventional vehicle: Reduction in consumption and emissions (up to 20% in typical urban use);
- Vs Electric Vehicle: lower cost. No problems of limited range and recharging time. CO2 reduction due to lower consumption related to hybridization and green solar power;
- Vs Hybrid vehicle: lower cost. Partial solar recharge of battery. More sustainable;
- Fuel consumption and emission reduction: up to 20% in urban driving.

Additional information: <https://een.ec.europa.eu/b2b/profile/d2785274-7e0b-4546-a9b9-018798fc1f7b>

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## A photovoltaic modular storage system for energy autonomy

### Summary:

An Italian SME has developed a photovoltaic (PV) modular storage system (MSS) designed for achieving energy autonomy. This MSS operates independently from the grid, exclusively charging its batteries using PV-generated electricity. It prioritises PV energy for consumption and switches to the grid only when battery levels are depleted. Notably, it boasts unrestricted current withdrawal capacity from the batteries. The SME is looking for partners to collaborate via commercial agreement with technical assistance, EPC contractor, energy managers, distributors.



### to current solutions:

• kWp;  
• City grid;  
• ARS;  
• Batteries: AGM, GEL, Free Acid, Deep Cycle, etc.

• MSS with automatic desulphation function (i.e. removal from the electrodes) for each single battery only when the batteries are in optimal conditions.

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#EENCanHelp

# Thank you

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