

## AGENDA

Alliance for the Energy Transition

### CONSORTIUM LEADER

EFACEC ENERGIA - MÁQUINAS E EQUIPAMENTOS ELÉCTRICOS S.A.

### AGENDA DESCRIPTION

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The Alliance for the Energy Transition aims to strengthen the competitiveness and resilience of companies in the energy sector by creating innovative products and solutions with export potential. Based on technology and know-how developed and consolidated within the sector, it seeks to place Portugal at the forefront of decarbonization and promote an effective energy transition.

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**START DATE** | 01-11-2021

**COMPLETION DATE** | 30-06-2026

**TOTAL INVESTMENT** | 254,272,299.37 €

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### OBJECTIVES

The Agenda aims to capitalize on value creation opportunities within the context of Decarbonization, Decentralization, and Digitalization of the energy sector, establishing a unique and internationally competitive national ecosystem in Portugal. Beyond its intrinsic value, the Alliance proposes to create the foundations for a long-term collaborative ecosystem supported by digital, innovation, and industrial platforms, enhancing network externalities.

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### EXPECTED RESULTS

- 1 New Generation of PAC Solutions
- 2 New generation of ADMS and REMS systems
- 3 High-throughput system for communication and data simulation and energy equipment
- 4 E-TAM - Team and Asset Management Solution
- 5 LV Flexibility and management system of the Continuity of Service
- 6 Management system for the LV grid photovoltaic park and operational safety
- 7 SF6-free medium voltage switchgear and grid blocks for primary and secondary distribution substations
- 8 Intelligent digital model/twin for Shell-type transformers
- 9 New Generation of Shell-type Transformers
- 10 Innovative distribution transformers for renewable energy production
- 11 Digital solutions and business models for local energy communities
- 12 Energy services portal for the green transition of organizations (B2B segment)

- 13 Transversal platform for energy management and optimization of commercial buildings
- 14 Integrated "Energy as a Service" solution for RECs (Renewable Energy Communities) in multi-sector service clusters and industrial facilities
- 15 Dynamic and modular management software for Renewable Energy Communities (REC)
- 16 Energy community product with e-mobility
- 17 Energy Hub for maritime and river ports
- 18 Multimodal Management Platform
- 19 Corporate mobility solutions integrated with EV charging management and energy optimization systems
- 20 New generation of electric vehicle charging solutions
- 21 Electric Toyota Land Cruiser 70 Series (Electric LC 70)
- 24 Solutions for H2 production through the Westinghouse process
- 25 Technical and economic feasibility studies for the implementation of a 2G bioethanol production unit
- 26 Dye-Sensitized Solar Cells (DSSC) for IoT
- 28 New methodology for design, simulation, monitoring, operation, and maintenance of floating photovoltaic systems
- 29 AgriPV Demonstrator
- 30 Techno-Economic Model for commercial Carnot Battery offerings
- 31 Manufacturing and storage process for an intelligent offshore platform
- 32 Smart and connected home for providing new energy services
- 33 Net-positive energy buildings as hubs for electric mobility, storage, and flexibility
- 34 Efficient buildings through new materials and optimized by centralized intelligent interfaces
- 35 Optical sensors for gas monitoring
- 36 Drone for remote gas leak detection and pipeline inspection process
- 37 GRIDHRYVE | Plug&play system for injecting renewable gases into the grid and vehicle refueling
- 38 Integrated system for smart management and storage of green hydrogen
- 39 Advanced planning tools for integrating H2 into the natural gas grid and supporting industrial use of green hydrogen
- 40 Optimization tool for Multi-energy industrial networks
- 41 Support tool - DST-H2 System
- 42 Digital AlloT Platform for the Energy Sector
- 43 Advanced digital asset management solution for the Energy sector.
- 44 POEM - Municipal Energy Optimization Platform.
- 45 Circular Process for Energy sector value chains.
- 46 Collaborative Laboratory Network for the Energy Transition.
- 47 New functional verification process for Printed Circuit Boards (PCBs).
- 48 Degassing membrane module prototype for ammonia recovery from landfill leachate.
- 49 Campus as a Living Lab for Energy - CALL for Energy.
- 50 Hydrogen refueling for trucks and heavy vehicles.
- 51 Industrial digital-twin to support construction and storage stages of floating platforms for offshore wind energy.
- 52 Sustainable Energy Management.
- 53 Distributed infrastructure in agrivoltaic, ecovoltaic, and floating photovoltaic.
- 55 Urban energy performance label.
- 56 Biogas production unit from complex agricultural waste with integrated digestate treatment.
- 57 Advanced biofuel production from new generation feedstocks.
- 58 New training offer in the area of Electricity and Installations.

- 59 SOUND3D\_OS - Intelligent Acoustic Monitoring System for Environmental Assessment in Offshore Energy Infrastructure.
- 60 INSPECT\_OS - Autonomous Underwater Inspection System for Structural Integrity Monitoring in Experimental Offshore Platforms.
- 61 SEA-EYE - Autonomous Aerial Surveillance System for Experimental Offshore Infrastructure and Marine Life.
- 62 Control room for training grid operators for electrical energy systems with high penetration of renewable energy.
- 63 BrightPost - Intelligent Modular Lighting Pole

**BENEFICIARY ENTITY** | SMARTENERGY P2047, Unipessoal, Lda

**BENEFICIARY INVESTMENT** | €8,012,500.00

