

PARTNER OPPORTUNITY BRIEF

ClimateFlex Assets

Grid Flexibility + BESS/EMS Partner Opportunity

CETPartnership Joint Call 2026 - CM2026-08 Integrated Regional Energy Systems | Stage-1 deadline: 8 October 2026

FROM REAL NEED-OWNER DEMONSTRATIONS TO GRID-READY FLEXIBILITY USE CASES

ClimateFlex already has concrete demonstration environments. We are now inviting grid and BESS/EMS expertise to co-design the flexibility layer around them.

Why this opportunity now

1 DEMONSTRATION CONTEXTS EXIST • Need Owners and real operational environments are already shaping the project. • Bandırma: municipal Park Concept Living Lab. • Sivas: municipal + university climate-energy applications. • MIGAL: renewable-rich rural multi-energy Living Lab.	2 SYSTEM ARCHITECTURE IS DEFINED • Distributed generation + Solar Digital Skin + ClimateFlex assets. • BESS + EMS + flexible loads + e-mobility + productive and climate services. • Predictive climate-energy intelligence across the system.	3 NEXT STEP: CO-DESIGN GRID VALUE • Translate demonstration contexts into credible grid/flexibility use cases. • Define operational constraints, dispatch logic and system KPIs. • Build a transferable methodology for regional replication.
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ClimateFlex technical logic

A common architecture - different regional contexts - measurable integration

RENEWABLE RESOURCES	CLIMATEFLEX ASSETS	BESS + EMS	GRID + FLEXIBILITY	LOCAL / REGIONAL SERVICES
PV · agrivoltaics · wind · bioenergy · grid	Solar Digital Skin · Patio · Garden · Forest · Landscape · GH1	storage · dispatch · interoperability · control	constraints · congestion · import/export · flexibility services	EV charging · cooling · irrigation · productive loads · public space

PREDICTIVE CLIMATE-ENERGY INTELLIGENCE: weather + renewable forecasts + heat risk + demand forecasts + predictive control

Candidate demonstration contexts

BANDIRMA MUNICIPALITY - TÜRKİYE	Park Concept Living Lab: local renewable generation, energy storage, smart microgrid management, public engagement and future grid-flexibility validation.
SIVAS - TÜRKİYE	Municipal and university-linked climate-energy applications: public-space assets, charging, greenhouse/productive loads, water/irrigation and distributed municipal services.
MIGAL - ISRAEL	Renewable-rich rural multi-energy environment combining agrivoltaics, wind, bioenergy and agricultural demand; strong potential for integrated dispatch and flexibility research.

Opportunity: help transform these real contexts into bankable, measurable and replicable grid-flexibility use cases.

TWO COMPLEMENTARY TECHNICAL PARTNER PROFILES

Co-design the grid + flexibility layer of ClimateFlex

A. DSO / GRID ACTOR**Grid-facing R&D + validation**

- Co-define grid connection constraints, import/export limits and operating envelopes.
- Identify relevant flexibility services: peak management, congestion relief, EV charging coordination, self-consumption and grid-support functions.
- Define DSO/grid KPIs, data requirements and validation protocols.
- Assess regulatory, interoperability and replication requirements across regions.
- Help convert Need-Owner contexts into technically credible CM08 grid use cases.

B. BESS / EMS PARTNER**Storage + orchestration + system integration**

- BESS sizing, topology and operational strategy across distributed ClimateFlex assets.
- EMS architecture, interoperability, device/API integration and secure control interfaces.
- Predictive dispatch using weather, renewable and demand forecasts.
- Coordinate generation, storage, EV charging and flexible productive/climate loads.
- Prototype integration, safety, performance measurement and replication strategy.

Joint operating concept

FORECAST	OPTIMISE	STORE	FLEX	GRID
weather · PV · demand · heat risk	EMS decisions · constraints · service priorities	BESS · distributed storage	EVs · cooling · irrigation · productive loads	DSO requirements · services · validation

UBIMET climate/weather intelligence + EMS optimisation + BESS flexibility + DSO/grid constraints + ClimateFlex controllable assets

Where the partners plug into the current WP architecture

Work Package	DSO / grid contribution	BESS / EMS contribution
WP3 - Regional Energy Integration, BESS/EMS & Grid Flexibility	Grid constraints, flexibility services, grid KPIs, regulatory/interface validation.	Storage/EMS architecture, optimisation, dispatch, interoperability, system integration.
WP4 - Predictive Climate-Energy Intelligence	Define grid-state/constraint inputs and service requirements for predictive control.	Translate forecasts into dispatch and operational decisions across assets and loads.
WP5 - Multi-Context Demonstration & Validation	Validate grid-facing use cases and transferable methods in selected contexts.	Deploy/integrate control and storage functions; measure performance and replication potential.

Current consortium momentum + what we are seeking now

EMERGING CONSORTIUM

- Climate Assets / Spain - originator + coordinator candidate.
- UBIMET / Austria - confirmed intention to contribute as supporting technical partner.
- MIGAL / Israel - ready to join; national approval pathway identified.
- Bandırma Municipality - committed key pilot / Park Concept Living Lab.
- Sivas Municipality + Sivas University / SEDAM; INCDIE ICPE-CA / Romania - ongoing discussions.

IDEAL NEXT PARTNER

- Eligible CM2026-08 beneficiary with genuine R&D role.
- DSO/grid, aggregator, microgrid or flexibility expertise - and/or advanced BESS/EMS integration capability.
- Interest in co-designing technical tasks, KPIs and demonstration use cases.
- Experience in EU/CETPartnership projects is valuable but not mandatory.
- Ability to engage rapidly in Stage-1 proposal development before 8 October 2026.

INTERESTED IN CO-DESIGNING THE GRID + FLEXIBILITY LAYER?

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