

ClimateFlex Assets

**Distributed climate–energy assets
and eco infrastructures of care** for
integrated regional energy systems

CETPartnership 2026 · Call Module 08

Online Matchmaking Event 2 · 8 September 2026

**Seeking coordinator + DSO/grid actor + BESS/EMS
integrator + replication partner**

Carlos H. Betancourth SLU
Founder · The Climate Assets Company ·

chbetanc@msn.com · U 202432166



One modular system, multiple scales

From node to cluster to network to regional system



NODE

Solar Patio/**climate** refugia

CLUSTER

Solar Garden / **e-Agora**

NETWORK

Solar Forest / **EV Oasis**

REGIONAL LAYER

Solar Landscape / **e-corridor**

Patio → Garden → Forest → Landscape

The same logic scales from site activation to a distributed regional-energy system.

One system, multiple service layers

ClimateFlex combines physical infrastructure, energy infrastructure, climate services and recurring value services.



Climate services

shade · cooling · refugia · safer public space



Energy services

PV · BESS · EMS · local circulation



Mobility services

EV charging · e-bikes · EV Oasis · hubs



Productive / water / territorial

greenhouse · irrigation · waterfront · food-water-energy

Infrastructure services · O&M · subscription models · data, information and knowledge services

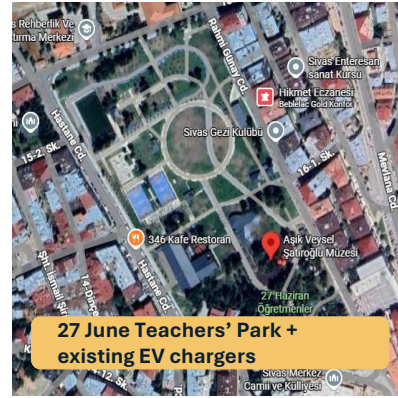
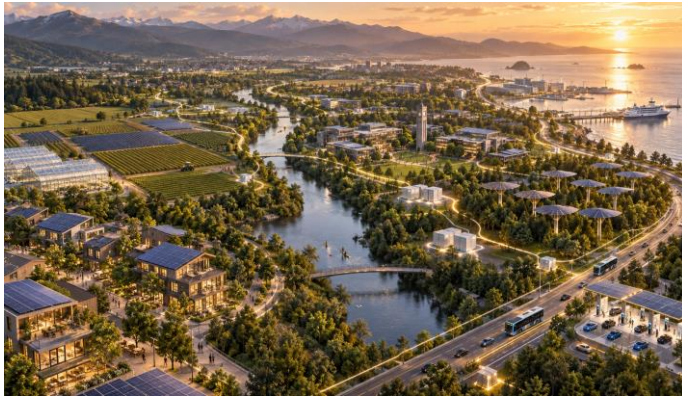
The asset network also creates recurring service models, not only one-off installations.

ClimateFlex is a distributed climate-and-energy layer added to valuable places.

Two potential Need-Owner territories

One ClimateFlex architecture tested through complementary municipal pathways.

SIVAS · Three-stage municipality–university pathway



01 27 June Teachers' Park

public-space climate + energy hub · Solar-Powered Terrace / Garden · mobility-energy component · existing EV charging below the park

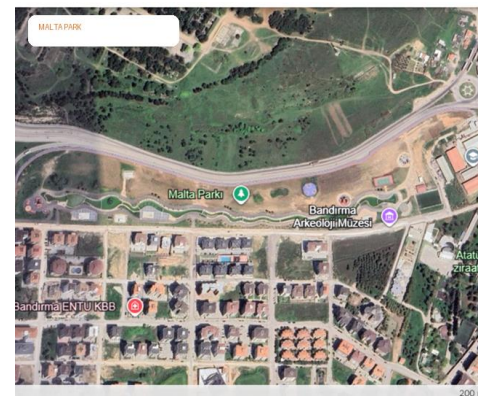
02 Climate-Resilient Greenhouse

research platform: Solar Digital Skin + climate, energy, water and sensors · municipality–university cooperation

03 Kızılırmak River Phase 2

larger-scale integration and replication of proven Climate Assets: mobility, EV charging, hospitality, water, food and public-space applications

BANDIRMA · Malta Park green-energy hub



Malta Park · local energy demonstrator

- Real municipal loads: park lighting + 6 industrial water pumps
- PV + BESS + EMS sized around real demand and self-consumption
- Smart orchestration of pumping, lighting + future park services
- Solar Patio / Garden adds shade, charging, sensing + citizen value
- Replication: park → mobility hubs → wider port-city / industrial network

Same platform · different territorial metabolism · stronger replication logic

Sivas proves municipal–university climate-energy-food research · Bandırma proves municipal energy-water integration + scalable local energy hubs

Emerging ClimateFlex architecture

Physical assets + energy services + recurring value layer + predictive intelligence + regional integration



ClimateFlex physical asset layer — Solar Patio · Solar Garden · Solar Forest · Solar Landscape · Gaudí-inspired resilient greenhouse · Solar Digital Skin

Energy layer — PV · BESS · EV charging · flexible loads · local energy circulation

Service & value layer — infrastructure services · O&M · subscriptions · data / information / knowledge

Predictive intelligence layer — weather / climate intelligence · heat risk · storm-safe operation · PV forecasts

Regional integration layer — Need Owners · EMS/control · DSO/grid interaction · demonstration · replication

**Emerging discussions: Climate Assets / Spain · Sivas + Bandırma / Türkiye · OSTIM / Türkiye · UBIMET / Austria
prototype/manufacturing partners partners**

Consortium-building ask

Five capabilities to complete the CM08 architecture before Stage 1.



- 01

Coordinator / system integrator

transnational R&I lead · governance · reporting · proposal coordination
- 02

DSO / utility / grid actor

distribution-grid interface · DER validation · flexibility · regional energy integration
- 03

BESS + EMS integrator

PV + storage + EV charging · flexible-load orchestration · predictive control
- 04

Prototype engineering + manufacturing

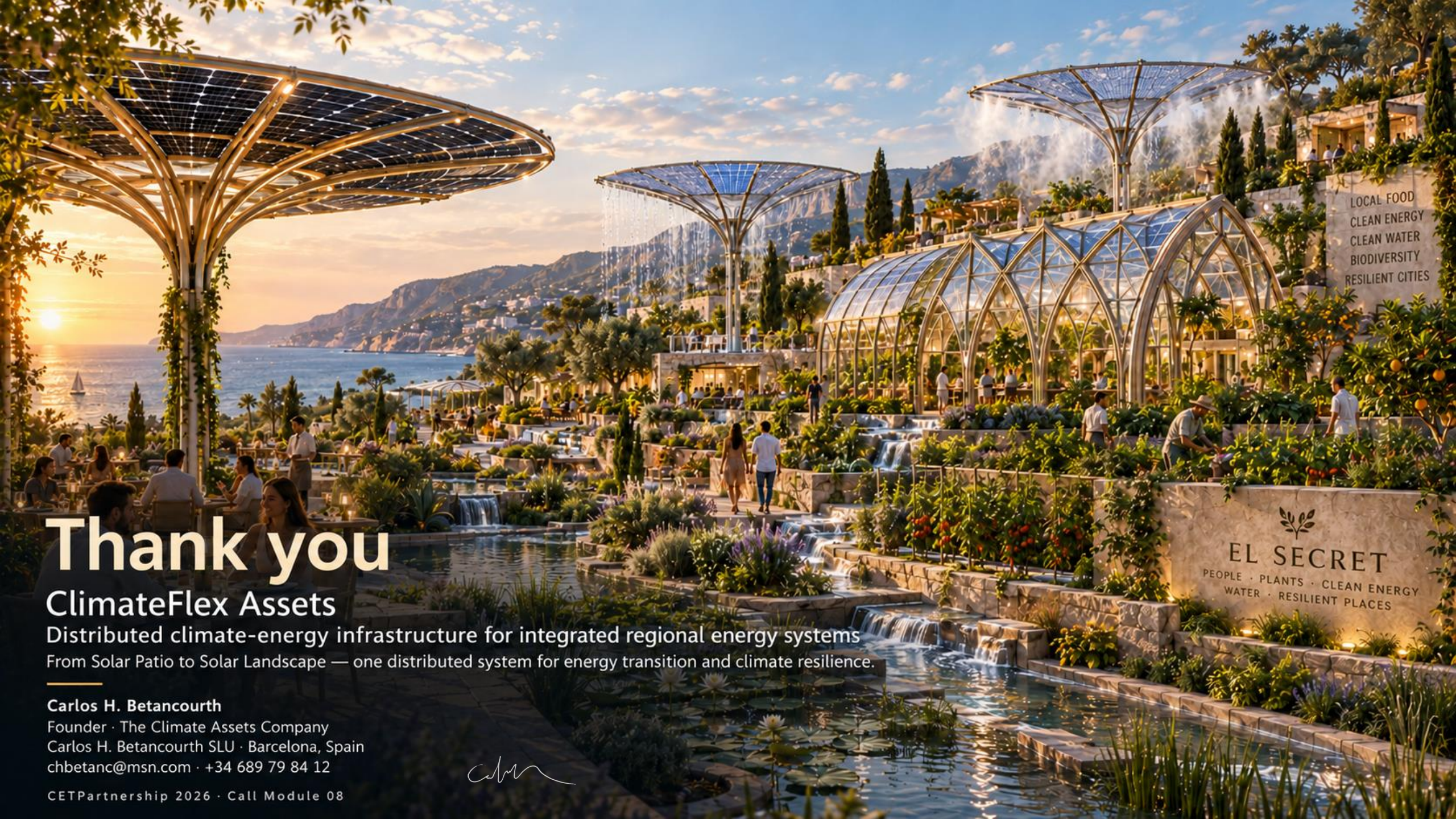
lightweight structures · Solar Digital Skin · mechanical integration · fabrication · pilot installation
- 05

Replication / validation partner

regional Living Lab · municipality · utility or RTO · transferability and EU scale-up

Need Owners + climate intelligence + core asset architecture are in development. Now completing the energy-system, industrialisation and replication backbone.

Interested partners: let us define role, WP, budget logic and Stage-1 fit this week.



LOCAL FOOD
CLEAN ENERGY
CLEAN WATER
BIODIVERSITY
RESILIENT CITIES

EL SECRET
PEOPLE · PLANTS · CLEAN ENERGY
WATER · RESILIENT PLACES

Thank you

ClimateFlex Assets

Distributed climate-energy infrastructure for integrated regional energy systems
From Solar Patio to Solar Landscape — one distributed system for energy transition and climate resilience.

Carlos H. Betancourth
Founder · The Climate Assets Company
Carlos H. Betancourth SLU · Barcelona, Spain
chbetanc@msn.com · +34 689 79 84 12