

Distributed **biological carbon capture** infrastructure — "HEALIM"

PLANT A FOREST IN EVERY SPACE



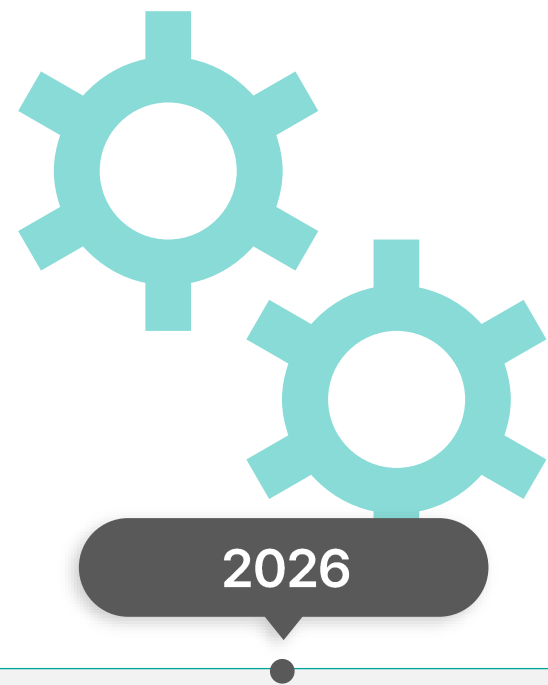
Regulation is no longer a concept. It is a real cost.

From CBAM enforcement to the full launch of EU ETS 2 — from 2026, a carbon price attaches to buildings and mid-sized facilities.



CRCF in force

Certification framework in place



CBAM in full force

Carbon cost hits exporters



ETS 2 reporting

Buildings & transport must report



ETS 2 live

Carbon price on buildings

FORNATURES does not compete with industrial CCUS — we target the building-scale market it cannot reach

They have done everything — and still have to cut more

SME & mid-cap manufacturing · Urban buildings · Public-use facilities · Local governments

01

Already done

Solar, LED and HVAC retrofits are already complete.

02

And yet

Reduction obligations keep increasing.

03

The problem

There is no technology or method left to apply.

The only option left is buying allowances — pure cost, no asset, and supply is short



€6.0bn

Green investment by Korean listed companies



€22.4bn

Total green procurement



€54.9m

Average spend per reporting entity

Capture is centralized. Emissions are everywhere.

SME & mid-cap manufacturing · Urban buildings · Public-use facilities · Local governments



Industrial centralized CCUS (requires large-scale capture facilities)

Large point sources only · high upfront cost · compression, long-distance transport and storage · needs large budget, space and facilities · no end-user benefit



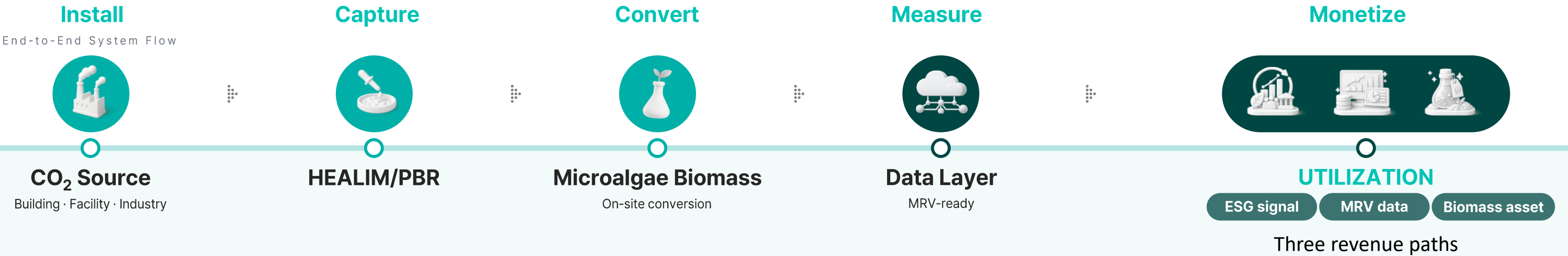
FORNATURES distributed model (fits existing space — wall-mounted)

Modular installation per building or facility · converted to biomass on site · no transport required
Delivers an end-user benefit — cleaner air

● What We Build

Distributed Biological Carbon Capture Infrastructure

We turn buildings, public facilities, and industrial sites into capture nodes each one a CO₂-to-biomass conversion unit, connected to a unified data layer.



CAPTURE

Stabilized, automated microalgae cultivation
pH ±0.05 · LED spectral match · Temp ±1°C · Auto-harvesting



CONVERT

CO₂ → biomass on-site
Reduces dependence on post-capture compression and long-distance CO₂ transport



STREAM

MRV-ready environmental data
Continuous gas, biomass, and energy logging — MRV-ready environmental data



Projected gross capture potential based on lab-derived productivity assumptions; field validation is part of the Pre-A milestone. See Appendix B.

Biological carbon capture + automation

FORNATURES builds on established microalgae research and validated capture performance, and connects it through automated, distributed operation rather than batch processing.

✓ Challenges **FORNATURES solution**

Overgrowth & contamination
// batch process

➤ **Sealed, automated continuous-harvest system**

Environmental data & culture management

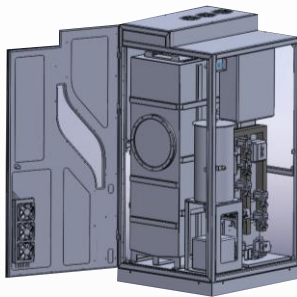
➤ **Real-time sensing and data collection**

Manual operation

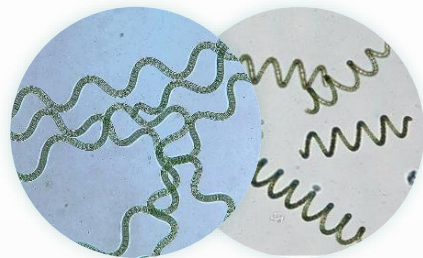
➤ **Autonomous control**
pH ± 0.05 · LED spectrum control · Temperature $\pm 1^{\circ}\text{C}$

✓ **Technology stack**

LAYER 01
Device automation



LAYER 02
Adaptive algae strains



LAYER 03
Data / MRV



Intellectual property

10
Patents registered

3
PCT — US / Europe

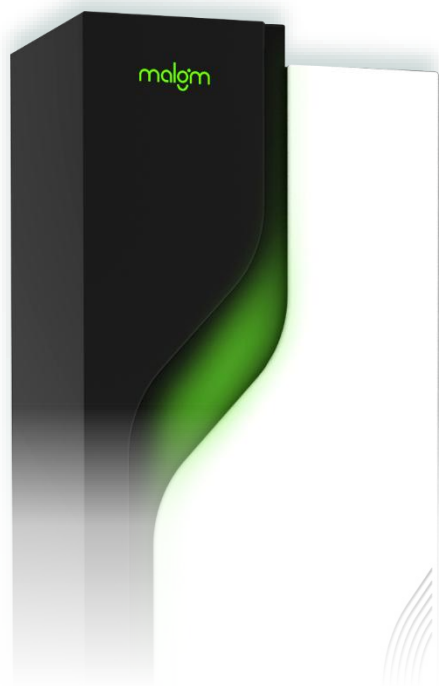
3
Technology transfers

6
Patents filed



If there is space, it fits.

HEALIM | A modular device in which microalgae convert CO₂ into biomass on site



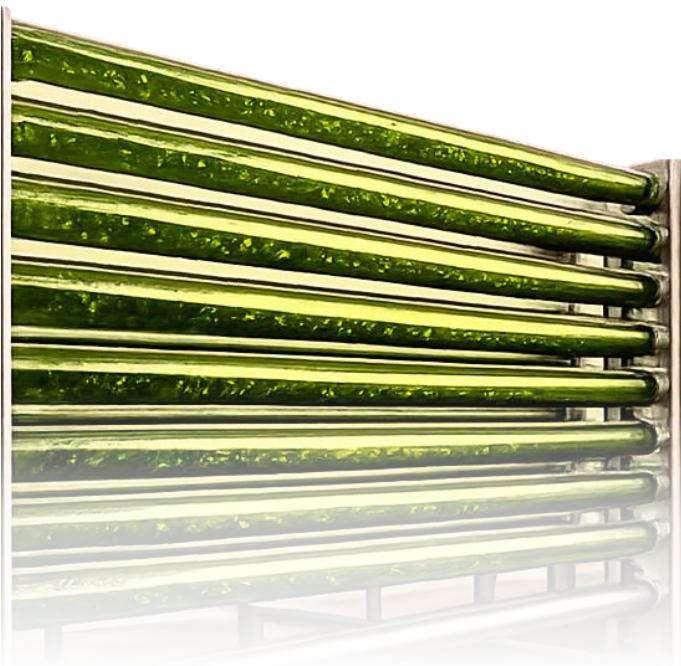
HEALIM Master

Lobby · office · showroom — free-standing, installed in days



HEALIM Wall

Walls · corridors · idle space — modular panels, expandable



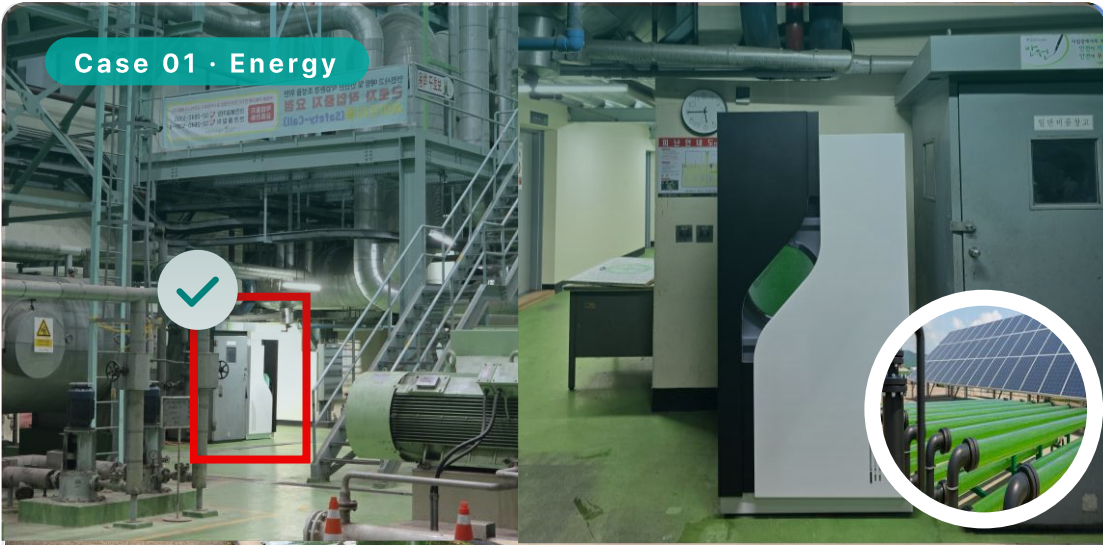
HEALIM PLANT

Flue gas · wastewater · utilities — industrial PBR

● Live Deployments

Live Deployments with Paid Commercial Traction

FORNATURES has deployed across energy, water, and building environments,
generating €1M in paid/contracted commercial traction while field carbon validation remains in progress



Combined Heat & Power Plant

Problem
Exhaust CO₂ + industrial reduction need

Solution
Microalgae-based biological capture

Projected result
~120 tCO₂/yr (projected, lab-derived)

Status → Next
Pilot completed → Expansion / paid pilot discussion



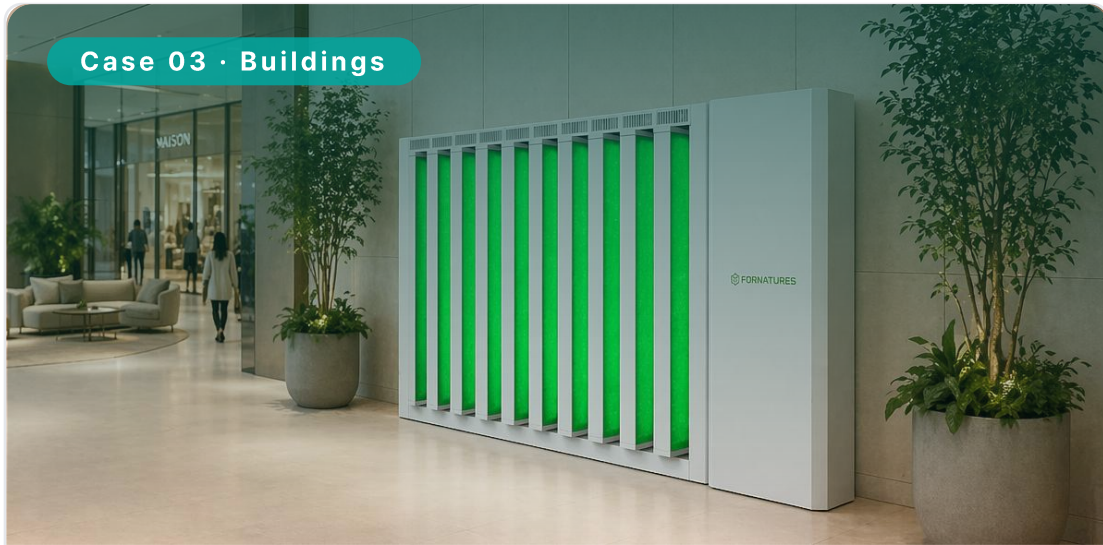
Food-Processing Wastewater

Problem
Organic load · TN/P · sludge handling cost

Solution
Combined wastewater + carbon conversion system

Projected result
~300 tCO₂/yr (projected, lab-derived)

Status → Next
Demonstration → Field scale-up validation



HEALIM Indoor Installation

Problem
Indoor air · visible ESG · distributed reduction

Solution
HEALIM Master deployment

Projected result
~2 tCO₂/yr per unit (projected, lab-derived)

Status → Next
Multiple units installed → Commercial expansion

Buildings and Public Spaces & Industrial Systems

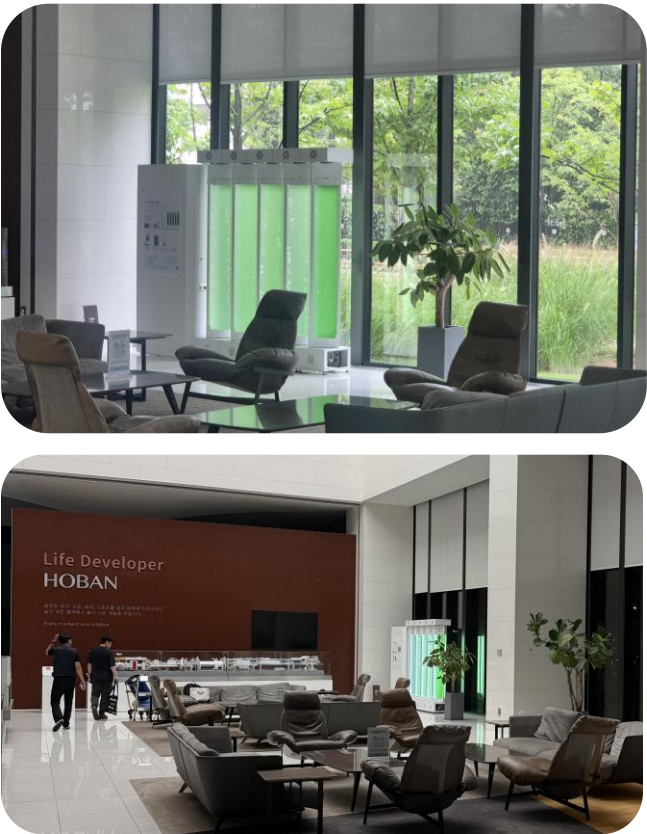
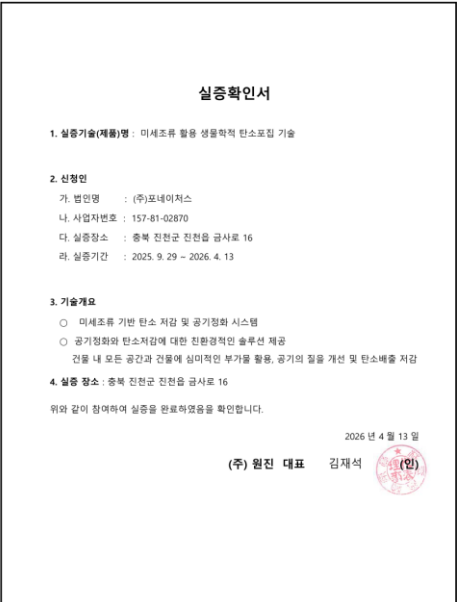
Indoor air quality, ESG and distributed reduction demand — already designed into the construction stage



Sinwol redevelopment association ·
purchase confirmed (Daewoo E&C)

€ **3.33M**

Indoor air purification ·
capture facility build-out
7 projects



✓ Installations completed at multiple export-oriented mid-cap manufacturers

Why the market exists
Redevelopment associations must meet green and ESG requirements at the permitting and design stage.

Why they chose us
We can be written into the design stage, and we replace the existing greening budget one-for-one.

Contract signed with Seoul Government & Seoul Energy Corporation

A site with a mandate to cut flue-gas CO₂ but no additional abatement equipment left to install

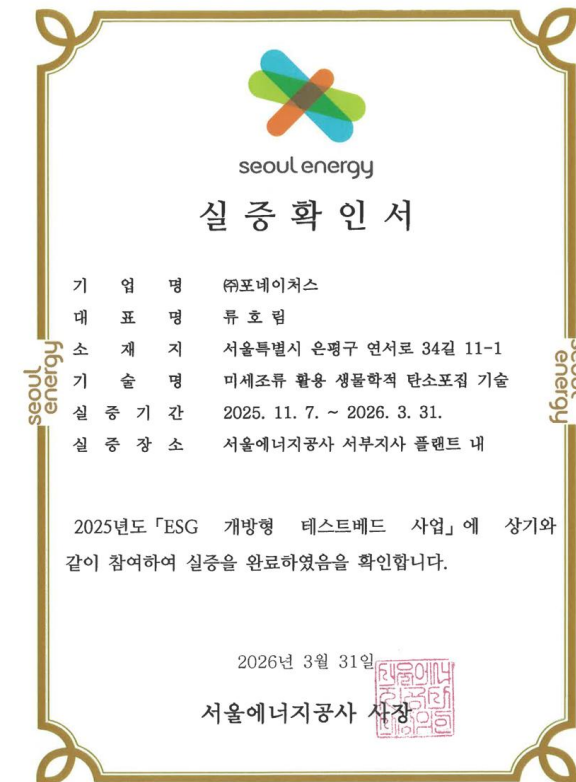


Contract size

€ **133.3K**

Estimated carbon reduction

~120 tCO₂ / year



✓ **Demonstration complete → discussing equipment expansion**

Why the market exists

Power and heat suppliers are allocation entities and must report reduction performance every year.

Why they chose us

There was no equipment that could attach directly to flue gas, and ours could be scaled after demonstration.

Water treatment system

A site with a mandate to cut CO₂ but no additional abatement equipment left to install



Expansion under discussion

€ **2.0M**

Current contract

€ **20K**



✓ **~300 tCO₂/year · demonstration operation complete**

Why the market exists

Food-processing wastewater carries a high organic load, so treatment and sludge costs rise every year.

Why they chose us

One system handles both wastewater treatment and carbon reduction, and the cost saving was immediately quantifiable.

Equipment sales first, then recurring revenue

Each installed node generates upfront revenue, recurring O&M and data revenue, plus future biomass upside

Revenue model	Type	What the customer pays	FORNATURES revenue
1. Hardware sales, rental	Upfront + rental	HEALIM / PBR installation (€ 20K+ modules)	Equipment sales, module expansion
2. O&M, data services	Recurring revenue	Maintenance, Monitoring, ESG/MRV reporting	Annual service fee per unit
3. Biomass valorization	Scale-up revenue	Harvested microalgae feedstock & extracts	Biomass offtake, feedstock supply revenue

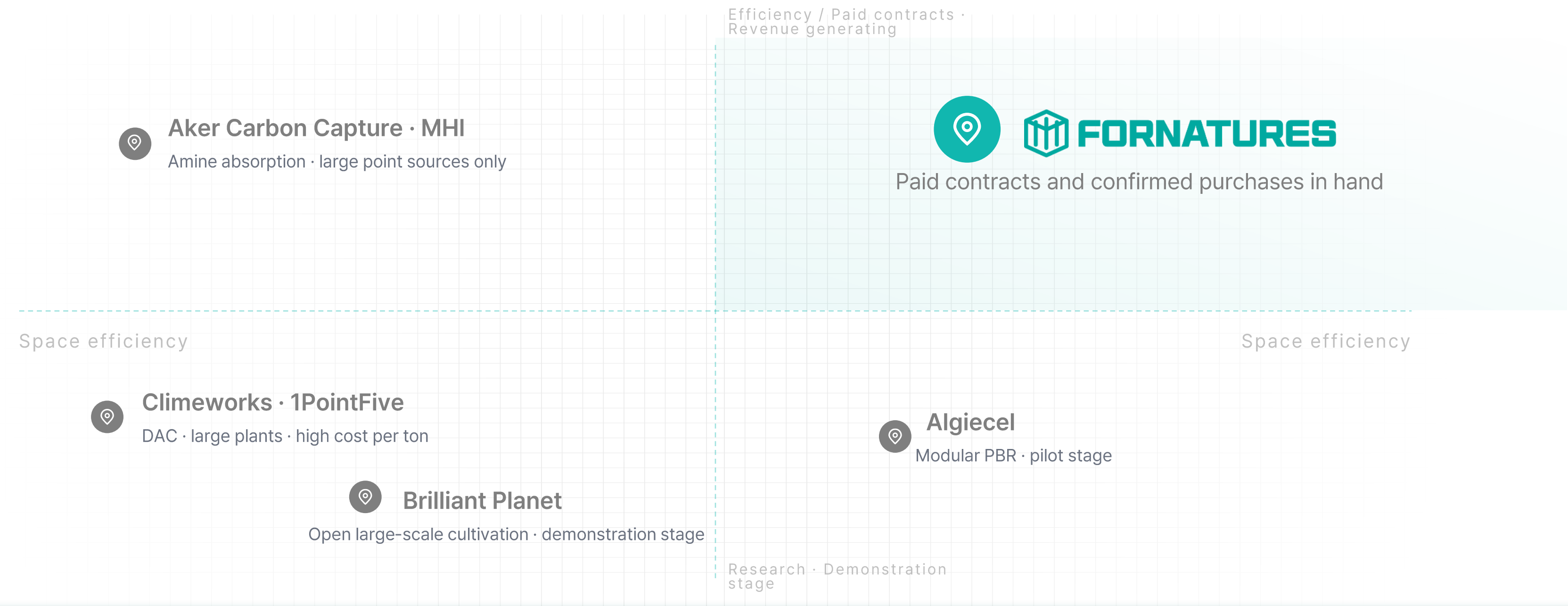


Future upside · not in base case

- ✓ Carbon benefits accrue to the customer. This expands the market.
- ✓ Carbon-credit linked verification should be a future growth driver, but is not included in base-case revenue.

Climate tech that actually books revenue is rare.

Most carbon capture technology is still at the research and demonstration stage. We prove ours with paid contracts.



Approx. KRW 1.6bn in cumulative paid contracts · KRW 5.0bn purchase confirmed · demonstrations completed across energy, water and buildings

We enter through budgets and programmes that already exist.

We do not ask for a new budget — replacement, certification and subsidy are our three entry routes.

01



Budget replacement

- ✓ Indoor greening · planterior
- ✓ Large-scale air purification units

Same space, same budget — and it leaves a measurable reduction behind.

02



Certification

- ✓ KC certification (electrical appliances)
- ✓ Green Technology Certification (biological carbon capture)

Qualified to appear in public procurement and design specifications.

03



Subsidy leverage

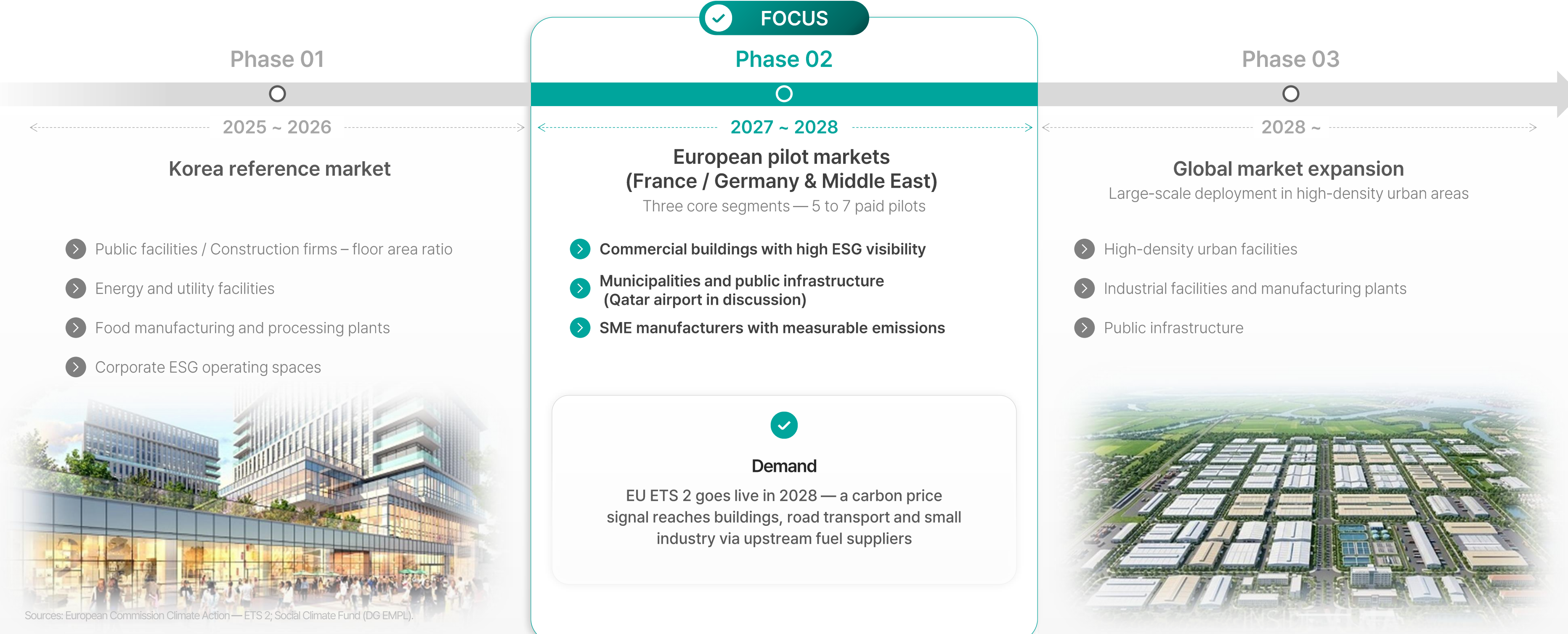
- ✓ Recognised as carbon reduction equipment
- ✓ Eligible for national and municipal support programmes

Lowers the customer's own contribution and accelerates the adoption decision.

**FORNATURES does not compete with industrial CCUS
— we target the building and mid-sized facility market conventional CCUS cannot reach economically**

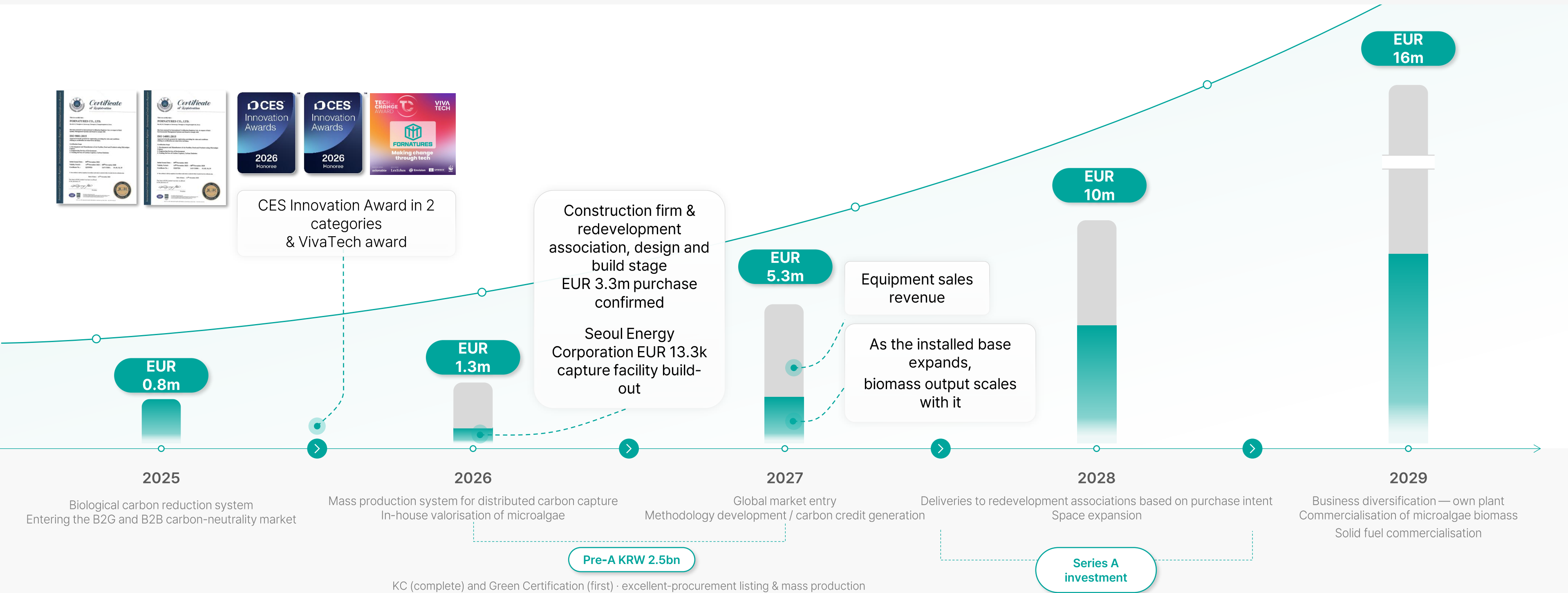
A phased plan for global market entry

As ETS 2 expands, demand for distributed decarbonisation rises — we enter in phases, targeting facilities that need measurable carbon reduction
Entering markets where solar installation and process-efficiency upgrades have already exhausted the available options



Four-year growth on an innovative ecological solution

Expanding the market base across B2G and B2B, then systematising distributed carbon capture through global expansion



From investment to in-house mass production

✓
Round
Pre-A

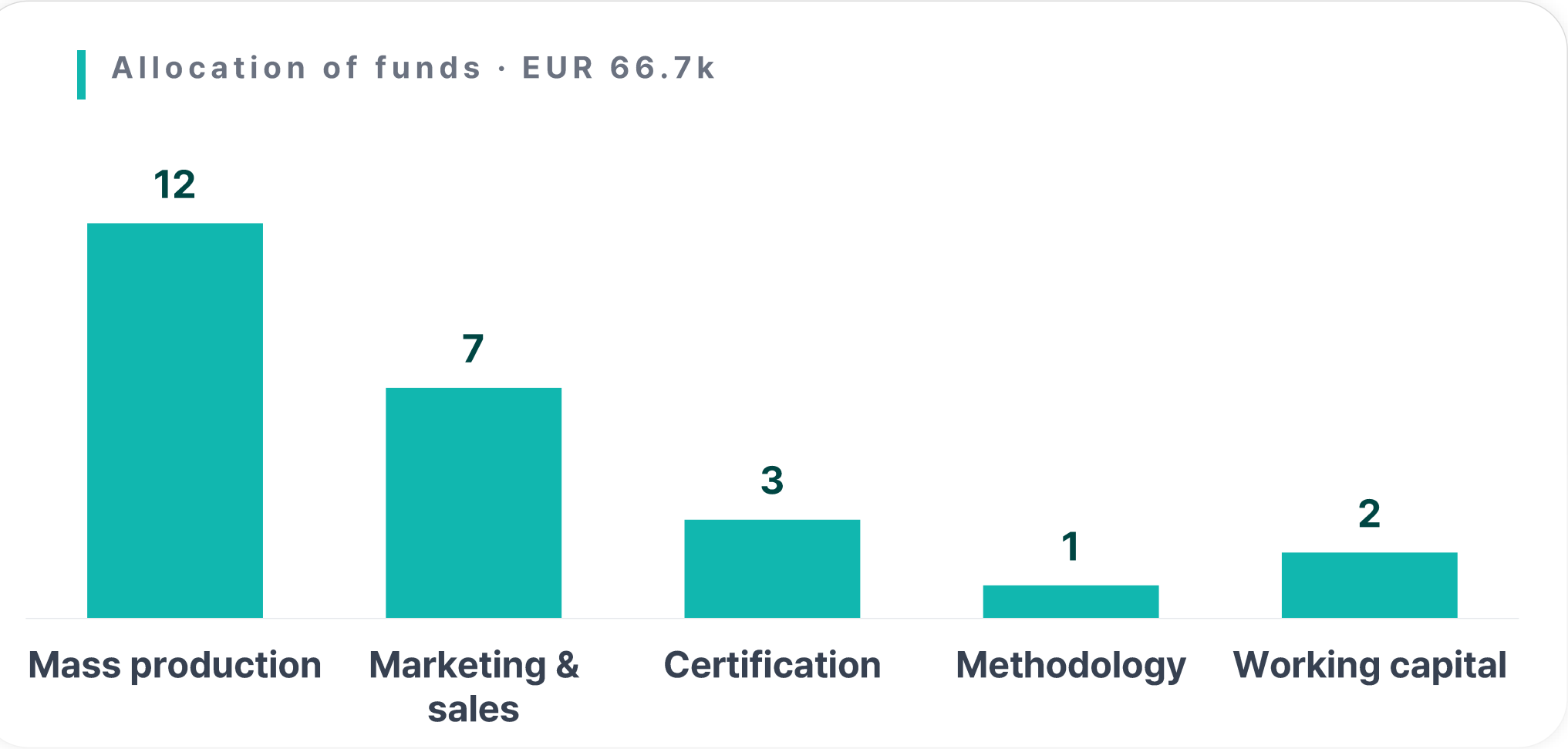
✓
Raise
approx. EUR 1.67m

✓
Target valuation
approx. EUR 13.3m

✓
Runway
18 months

Strategic partnership
terms negotiable

OEM production currently leaves margin below 10% — a Chinese manufacturing partner is secured, and shifting to in-house production lifts margin toward 50%



PRE-A ROUND

EUR 1.67m

Current margin

Below 10%

Gross margin

50%

Shifting from OEM dependence to in-house mass production · Chinese manufacturing partner secured

