

PRESS ROOM



***AMOOVO X LAB***

**Sovereign Energy & Cloud Infrastructure.**

## **Introduction**

AmoovoXLab is a deep-tech engineering laboratory designing long-term energy and infrastructure systems.

It combines energy storage, thermal control, distributed intelligence, and sovereign computing into unified architectures built to operate reliably across decades.

This document presents the core principles behind the AmoovoXLab ecosystem.

### **Table of Contents**

Introduction.....	2
Table of Contents.....	2
Not a Battery.....	3
One Ecosystem.....	3
CerebroX Mesh.....	3
Immersion Cooling.....	4
Thermal Recycling.....	4
Locked Capacity.....	5
All-in-One Grids.....	5
Battery Mesh.....	6
BlobOff Cloud.....	6
FrostShield.....	7
AmooFlex Program.....	7
Intergenerational.....	8
Press & Contacts.....	8

## **Not a Battery.**

Oxovolt and LoopXCell are not batteries.

They are long-term energy infrastructures designed for resilience, stability, and sovereignty.

By integrating energy, thermal, and computing layers, they operate as foundational systems for buildings, industries, and territories.

## **One Ecosystem**

AmoovoXLab operates as a unified ecosystem composed of:

AmoovoXLab — Engineering

LoopXCell — Excellence

Oxovolt — Power

CerebroX Mesh — Intelligence

BlobOff Cloud — Sovereignty

GoZero — Deployment

Yoomeyoo — Transmission

Boltarium — Environment

Each entity reinforces the others.

The system operates as one.

## **CerebroX Mesh**

CerebroX Mesh is the intelligence layer orchestrating the entire infrastructure.

It coordinates:

energy flows

thermal behavior

safety logic

system-wide data

It ensures real-time control, transparency, and long-term independence from proprietary systems.

## **Immersion Cooling**

All systems operate inside a controlled Boltarium immersion environment.

A dielectric fluid:

absorbs heat instantly

eliminates hotspots

prevents oxygen interaction

This results in:

fire-proof operation

zero airflow

extreme thermal stability

## **Thermal Recycling**

Cooling is not an external process.

All generated heat is captured and reused for:

heating

ventilation

hot water

HVAC systems

This enables system efficiency above 99%.

## **Locked Capacity**

Each system includes secured physical capacity.

This allows:

instant expansion

reduced stress on cells

extended lifespan

integration into energy reserves

Capacity becomes strategic.

## **All-in-One Grids**

Systems integrate storage, power electronics, and control into a single architecture.

Fully compatible with:

single-phase

multi-phase

3×230 V without neutral

Exclusive 3×230 V Technology

AmoovoXLab enables high-efficiency operation on 3×230 V networks without autotransformers.

This provides:

90% efficiency

dynamic inverter balancing

increased total power output

no additional energy cost

A constraint becomes an advantage.

## Battery Mesh

Systems can be interconnected into distributed energy networks.

This enables:

load balancing

peak shaving

energy sharing

grid stabilization

Energy becomes infrastructure.

## BlobOff Cloud

BlobOff Cloud is a sovereign, distributed cloud architecture.

It is:

not permanently connected

not centralized

not exposed by default

Data is encrypted, fragmented, and distributed.

No full data exists in one place.

## **FrostShield**

FrostShield is an active retrofit system restoring solar production in winter.

It operates by sending controlled electrical impulses through DC cables to warm photovoltaic cells.

Key advantages:

no roof access

no structural modification

installation from technical room (MPPT)

restored winter performance.

## **AmooFlex Program**

AmooFlex is the lifecycle program ensuring long-term system value.

Systems are:

upgraded

maintained

reconditioned

No forced replacement.

No depreciation.

## Intergenerational

Systems are designed to operate across generations.

They remain:

adaptable

upgradeable

transferable

Energy infrastructure becomes long-term legacy.

## Press & Contacts

Press materials: [www.amoovo.com](http://www.amoovo.com)

Press: [press@amoovo.com](mailto:press@amoovo.com)

Technical: [contact@amoovo.com](mailto:contact@amoovo.com)

Whatsapp: +32 4 55 13 01 62

**AMOOVOXLAB** — Verviers, Belgium