

JEWEL

Joint nEtWork for
European net-zero
manufacturing Leadership

Euroclusters 2025-2027



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Agenda webinar

- 🔗 **Presentation of the JEWEL Eurocluster project**, by Thibaud van Rooden (Pole Mecatech) (10')
- 🔗 **JEWEL open call presentation**, by Alysée Cibil (CIMES) (10')
- 🔗 **Q&A** (5')
- 🔗 **Presentation of JEWEL Ambassadors' network**, by Thibaud van Rooden (Pole Mecatech) (5')
- 🔗 **Presentation of Wallace Technologies**, by Pauline Chanin-Lambert and Benjamin Dupas (10')
- 🔗 **Pitch session** (45')
- 🔗 **Conclusion**, by Thibaud van Rooden (Pole Mecatech) (5')



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Presentation of the European JEWEL project



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Global Objectives of the Eurocluster projects (SMP)

Eurocluster 2.0 – Strand 1 is about turning **net-zero technologies** into real industrial solutions for European **manufacturing SMEs**, at scale and across regions, while strengthening EU strategic **autonomy**



Accelerate **NZT Adoption**

Accelerate the adoption and Industrialisation of net-zero technologies.



Support **SME Innovation**

Support SMEs in innovating, testing, scaling up, and adopting clean and digital technologies.



Strengthen **EU Value Chains**

Reduce strategic **dependencies**, increase **resilience**, and foster cross-regional collaboration.



Align with **EU Policies**

Translate EU priorities into action: Green Deal, NZIA, Clean Industrial Deal, Competitiveness Compass.



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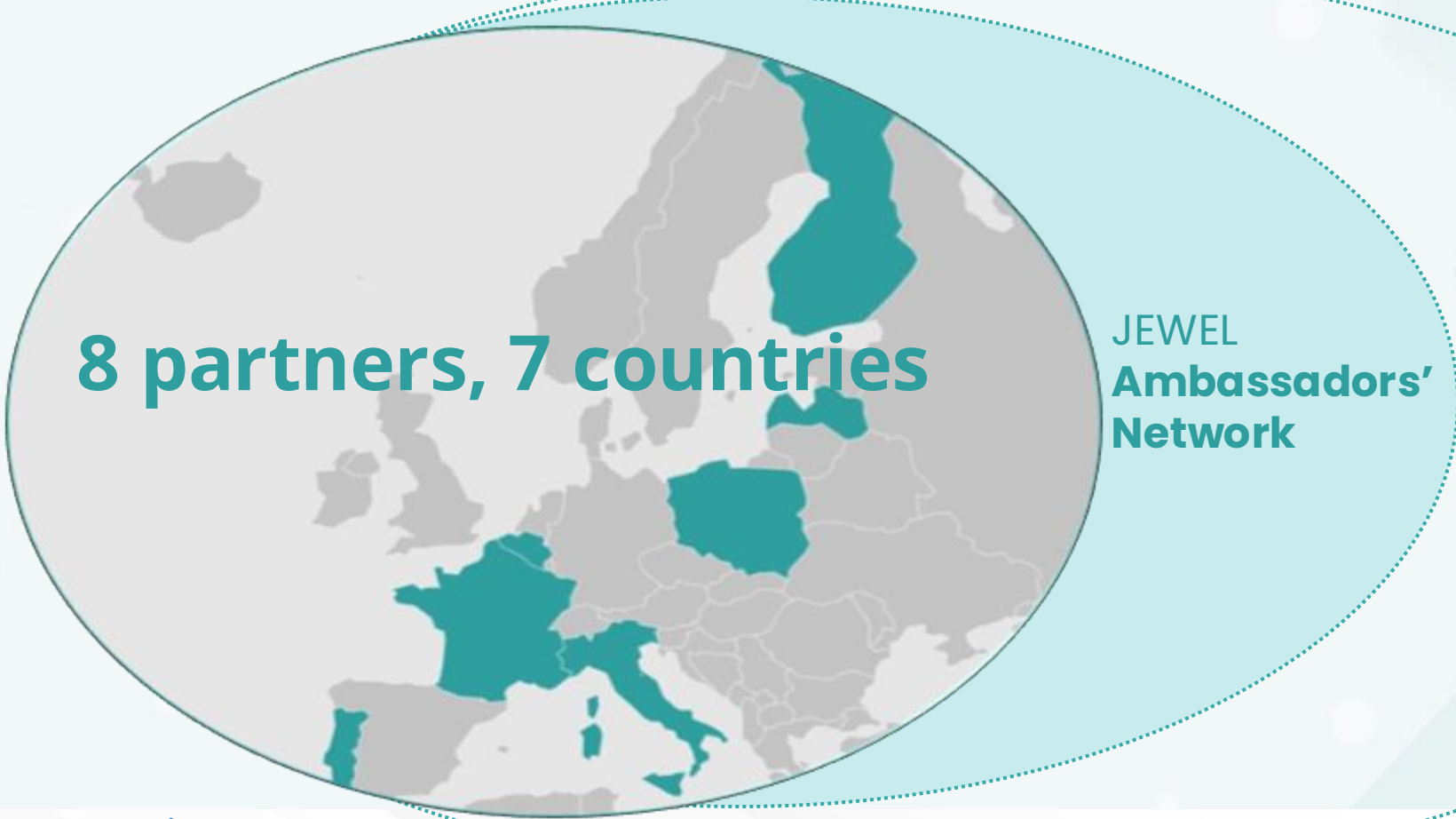


Jewel in Brief

- Main topic: **Net-Zero Technologies (NZE) & manufacturing** (strand 1)
- Duration: **36 months**
- Budget: **€2.7 M**
- Objectives:
 - Accelerate the net-zero transition in European manufacturing
 - Support innovative SMEs in adopting clean and digital technologies
 - Build a European meta-cluster for cooperation and strategic influence



Jewel Consortium / Who are we ?



8 partners, 7 countries

JEWEL
Ambassadors'
Network

JEWEL is a
member of



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Jewel : 3 Project Pillars / What's in it for you ?

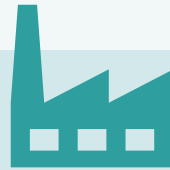


Knowledge Hub

Workshops on NZT & Green Manufacturing

Mentoring

Access to experts and knowledge

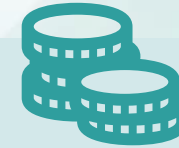


Project Factory

4 Focus Groups

Networking between Industry leaders & SMEs

Support from Ideation to consortium Building



Funding Window

Direct funding through 3 open calls

Info & guidance to other funding opportunities



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Scope : Targets & topics for participating SMEs

3 Key Ecosystems



Automotive, Mobility & Transport



Energy-Intensive Industries



Aerospace & Defence

4 Key Net Zero Technologies



Battery and energy storage



Hydrogen and fuel cells



Electricity Grid



Wind, Solar, and other Green Energy Production Technologies for Decarbonisation



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JEWEL Open Call Presentation



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Activities and Agenda

Conditions are currently under finalization, and could slightly differ in final call document

- Workshops: from February 2026 to June 2028
- Focus Groups: Starting Autumn 2026

JEWEL Open calls (FSTP/Cascade Funding)	TRL	Total budget/project (90% of the costs)	Application period	# SME / project	# funded projects
NZT Demo Projects (OC1)	7-8	54.000 €	Opening : 30/03/2026 Closing : 29/05/2026	2	10
Flagship Projects	4-6	180.000 €	Winter 2026	3	5
NZT Demo Projects (OC2)	7-8	54.000 €	Spring 2027	2	10

Open Call #1 – NZT Demo Projects

Objectives :

Conditions are currently under finalization, and could slightly differ in final call document

The JEWEL Open Call #1 supports **NZT-Demo Projects** in a **manufacturing context**.

The call aims to:

- Accelerate the **deployment of Net-Zero Technologies** in manufacturing
- Support **trans-regional SME** collaboration
- Strengthen **European industrial competitiveness**
- Contribute to **industrial decarbonisation**



Open Call #1 – NZT Demo Projects

Key parameters :

*Conditions are currently under finalization,
and could slightly differ in final call document*

- **Type of action :** Innovation and Demonstration projects
- **Min. project budget :** 60 k€
- **Max. grant per project :** 54 k€
- **Funding rate :** up to 90% of total eligible costs
- **Max project duration :** 9 months
- **Min. consortium :** 2 SMEs from 2 different eligible regions (NUTS 2)
- Manufacturing use case



Open Call #1 – NZT Demo Projects

Expected Project Results :

Conditions are currently under finalization, and could slightly differ in final call document

Projects are expected to:

- Increase TRL level (minimum starting **TRL 5-6** recommended to **TRL 7-8**)
- Demonstrate **technological feasibility** in relevant/operational environments
- Deliver **measurable environmental impact**
- Present **credible market** deployment pathways



Open Call #1 – NZT Demo Projects

Consortium Composition :

Conditions are currently under finalization, and could slightly differ in final call document

Minimum Requirements

- At least **2 SMEs**
- Established in **2 different eligible regions (NUTS 2)** : bonus point for international consortium
- Independent legal entities (no capital or personal links)

Roles

Each SME may act as:

- Technology/Solution Provider
- Manufacturing End-User

Additional Participants

- Subcontractors (universities, RTOs, experts, etc.) : must not exceed **15%** of the total project budget
- Partners without funding (e.g. large corporations, mid-caps)



Only SMEs are eligible for JEWEL funding



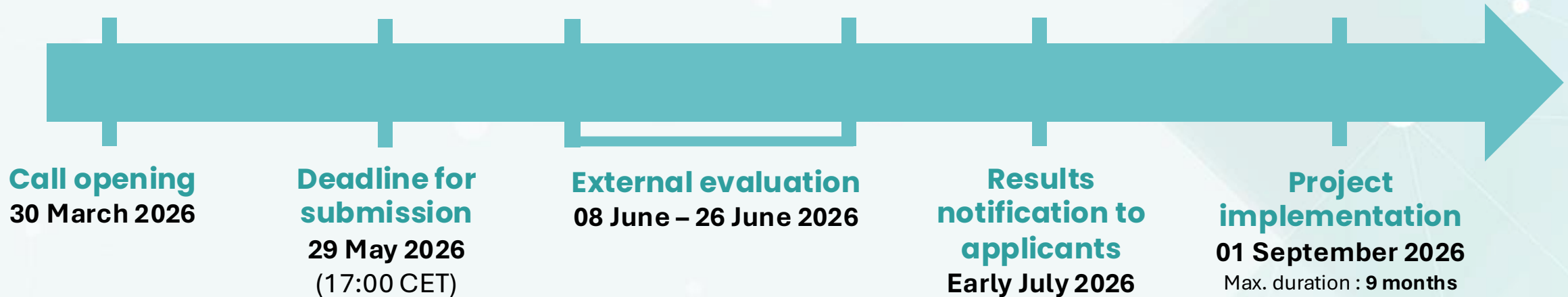
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Open Call #1 – NZT Demo Projects

Calendar

Conditions are currently under finalization, and could slightly differ in final call document



Application procedure

- Applications must be submitted via the **JEWEL online platform**
- Applications must be written in **English**



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Q&A



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Ambassador's role



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It's Time to Become a JEWEL Ambassador



Why should you join ?

- Early access to **key information** (calls, etc.)
- Opening access for your SME's to support, **expertise** on net-zero technologies, **funding opportunities**
- Strategic networking
- Increased **visibility & impact** for your organization



What's expected ?

- Push JEWEL information to your SME network
- Identifying relevant SME partners or stakeholders
- Act as contact between your ecosystem and JEWEL

Interested ? Contact Evoluma
(e.andrysewicz@evoluma.pl) or your closest project partner to register and receive your **ambassador kit**



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They already joined us as Ambassadors



Organisation Name	Country
ACT Cluster	Norway
FEMETAL INDUSTRY	Spain (Asturias)
EURAMATERIAL	France (Hauts de France)
PÔLE CÉRAMIQUE	France (Nouvelle Aquitaine)
CLUSTER ENERGIA	Spain (Bask Region)
CTA Cluster	Spain (Andalusia)



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Wallace Technologies presentation



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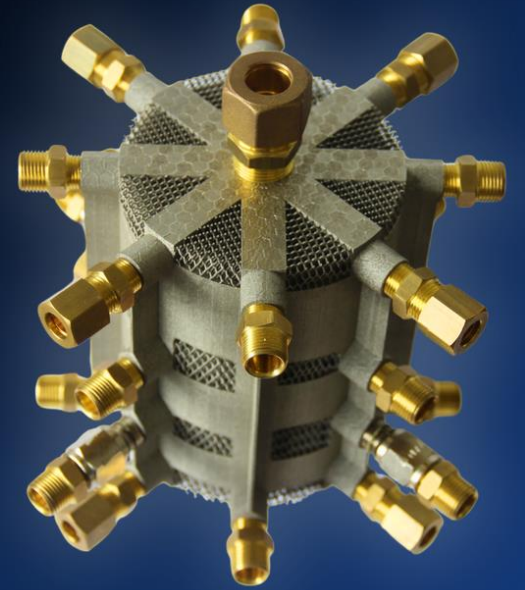


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Wallace
Technologies

Gemstone feedbacks : Storage Proof of Concept



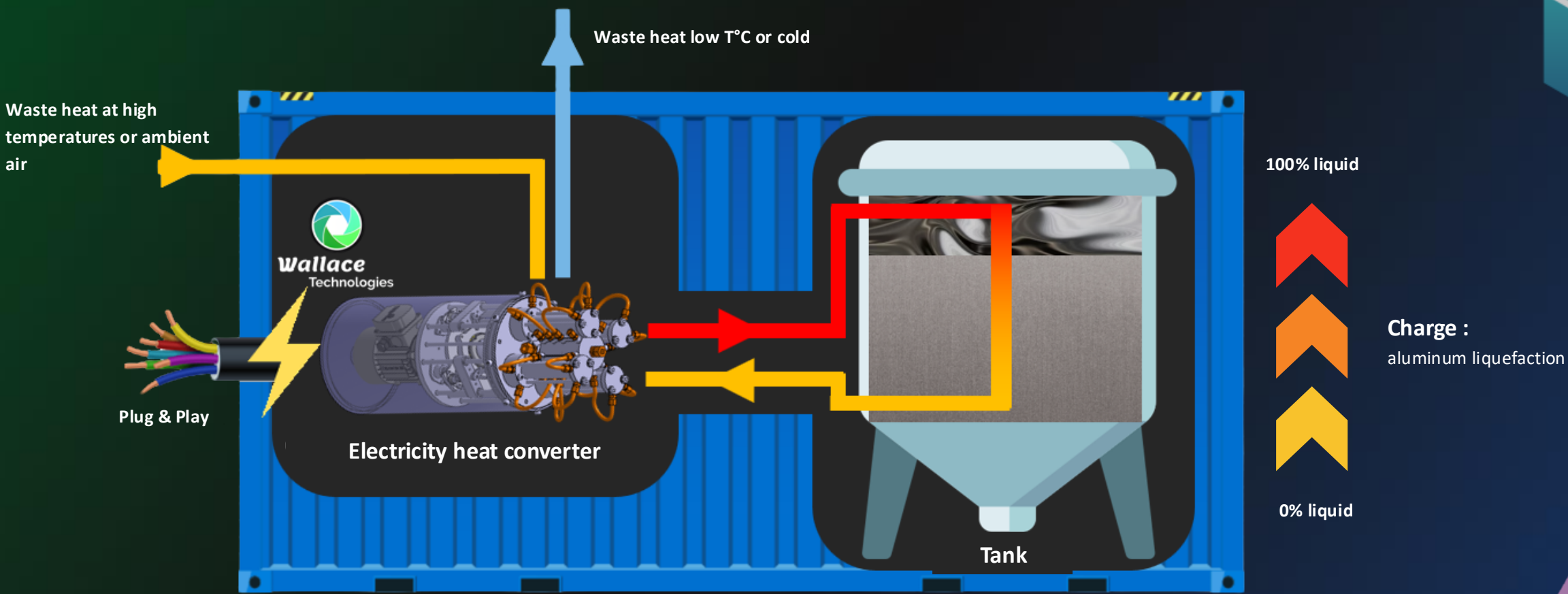
GEMSTONE

Green Manufacturing Supporting Recovery and Resilience of Industrial SMEs



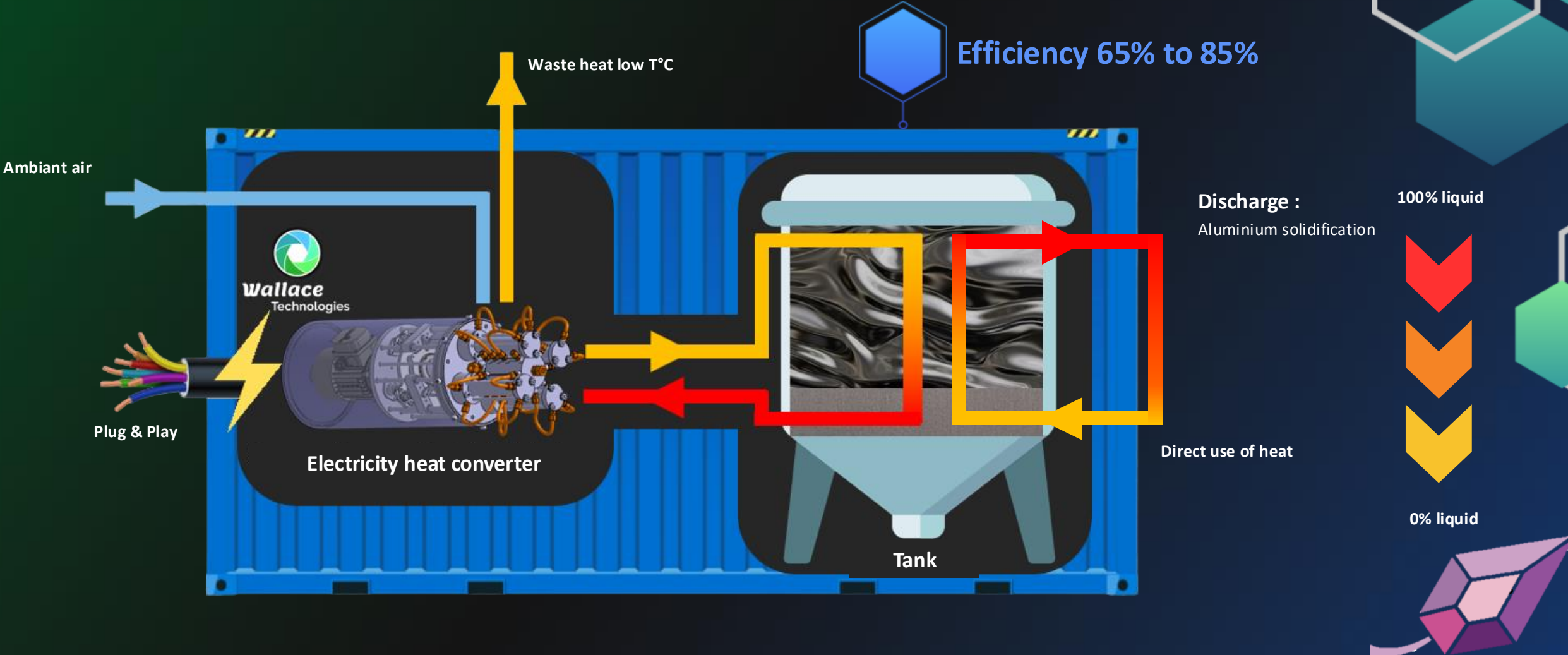
THERMAL STORAGE : CARNOT BATTERY

CHARGE : HEAT PUMP MODE



THERMAL STORAGE : CARNOT BATTERY

DISCHARGE : ENGINE MODE



DEVELOPMENT LEVEL: POC

European Gemstone Project : Validation of each technological component of our solution

7.5kWh storage with 60kg of aluminum PCM



GEMSTONE, A MILESTONE IN OUR ROADMAP

Storage POC is a demonstration leverage to engage industrials in our development

Wallace Technologies start a scale-up phase of the solution and submit an R&D Booster application





Wallace
Technologies

**THANK YOU FOR YOUR
ATTENTION**

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BENJAMIN DUPAS, CEO

✉ benjamin.dupas@wallace-technologies.com



THE NEEDS OF OUR CUSTOMERS AND PROSPECTS



PRODUCERS OF CARBON-FREE ELECTRICITY

- Ensuring SMR profitability and technical simplicity
- Maximize profits by 34% & Relay renewable energy overproduction



INDUSTRIAL ELECTRICITY-DEPENDENT CONSUMERS

- Minimize your bill by 29% & Guarantee autonomy
- Relay in load shedding offer (€60K/MW)

ADVANTAGES AND SECTORAL COMPETITION



CHEMICAL
LI-IONS



DAM



CAPEX per
kWh

€€

€€€

€



Lifespan

30 to 40
years

15 to 20 years

60 à 70 years



Delivery
time

1 year

1 year

5 to 10 years



Sovereignty



Easy
recycling

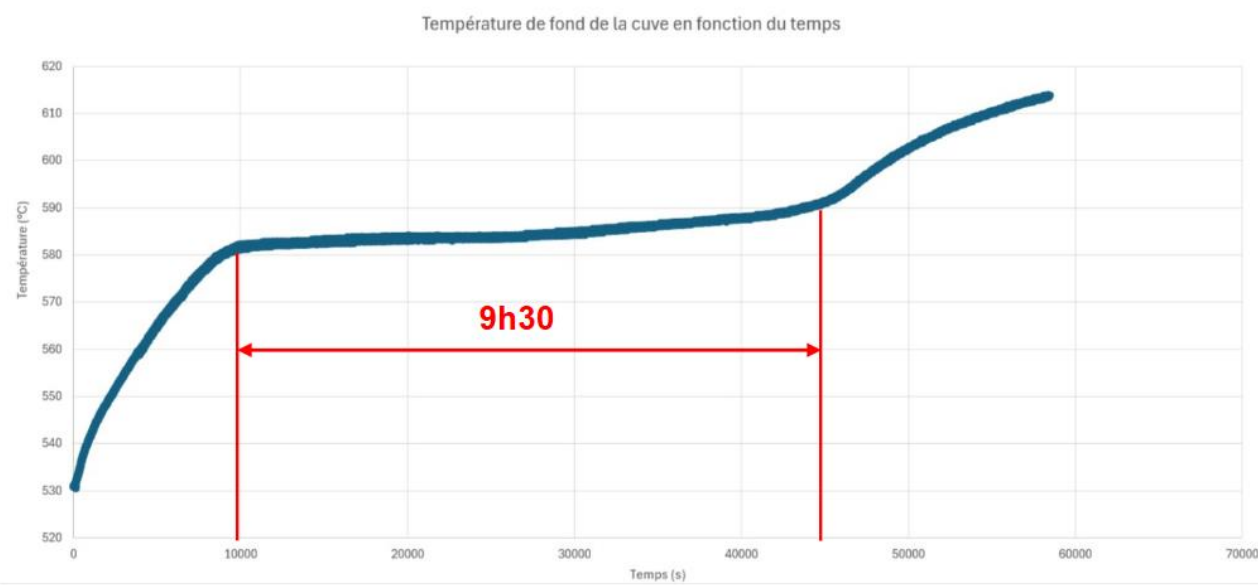


Energy
density

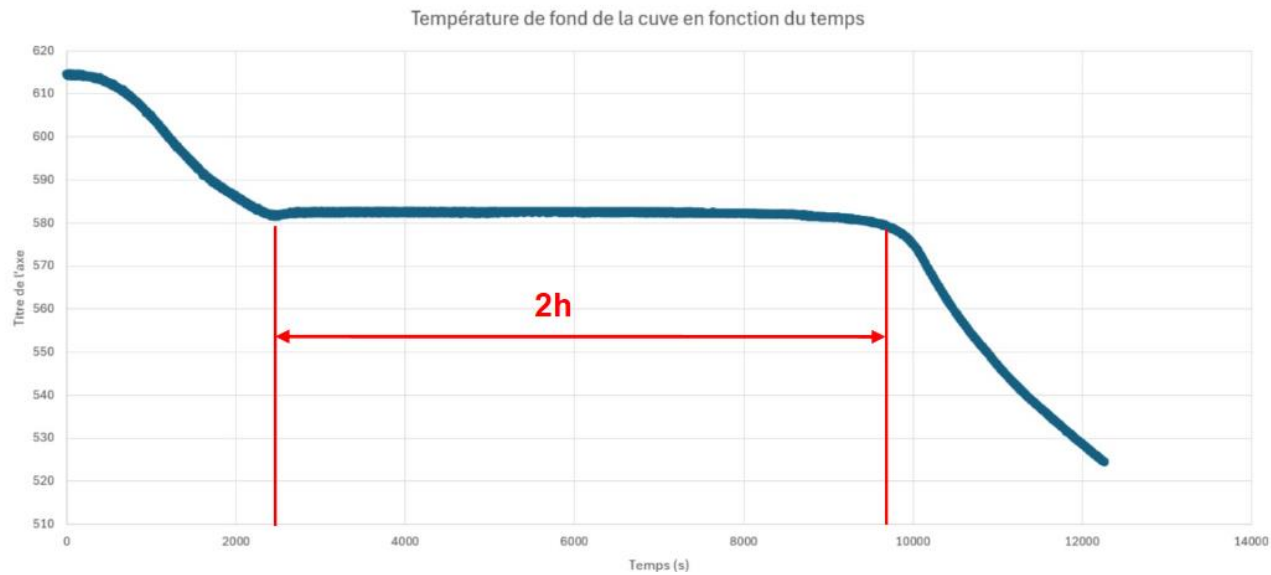


Technical information

CHARGE



DISCHARGE



OUR TEAM

OPERATING TEAM
CLERMONT FERRAND

R&D TEAM
SAINT ETIENNE

BENJAMIN

CEO
SALES MANAGER
MECHANICAL LEAD

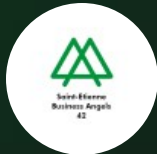


PAULINE

CTO
ADDITIVE MFG. R&D
ADMIN. MANAGER



**STRATEGY
ADVISOR**



ANTOINE

DESIGN
ENGINEER



FLORIAN

MATERIALS
R&D ENGINEER



**SCIENTIFIC
ADVISOR**

PR BONJOUR

PROFESSOR
THERMAL
DEPUTY PhD
PROGRAM DIRECTOR



ALBAN

THERMAL
ENGINEER



MAXIME

PhD
ADDITIVE MFG.



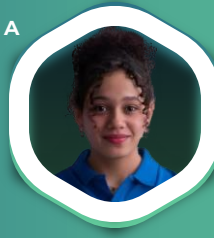
PR DESRAYAUD

PROFESSOR
MATERIALS
RESEARCH CENTER
DIRECTOR



SALMA

PhD
THERMODYNAMIC



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Closing Word



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Next Steps : Let's have a Talk

Were you inspired by a pitch ? Get in touch with the speaker.

You have a question / A project idea you want to share / you need **Guidance** ? Get in Touch with the JEWEL Team :

- ✦ Connect with us via the [Helpdesk](#).
- ✦ If you are member of one of the partners*, you can also contact your usual cluster representative

**MecaTech, MECH, CIMES, EMC2, PoolNet, Evoluma, GreenTech, Merinova*



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