

Greendur

DECARBONIZING INDUSTRIAL HEAT



Presentation for Successful R&I
in Europe 2025, 12th European
Network Events

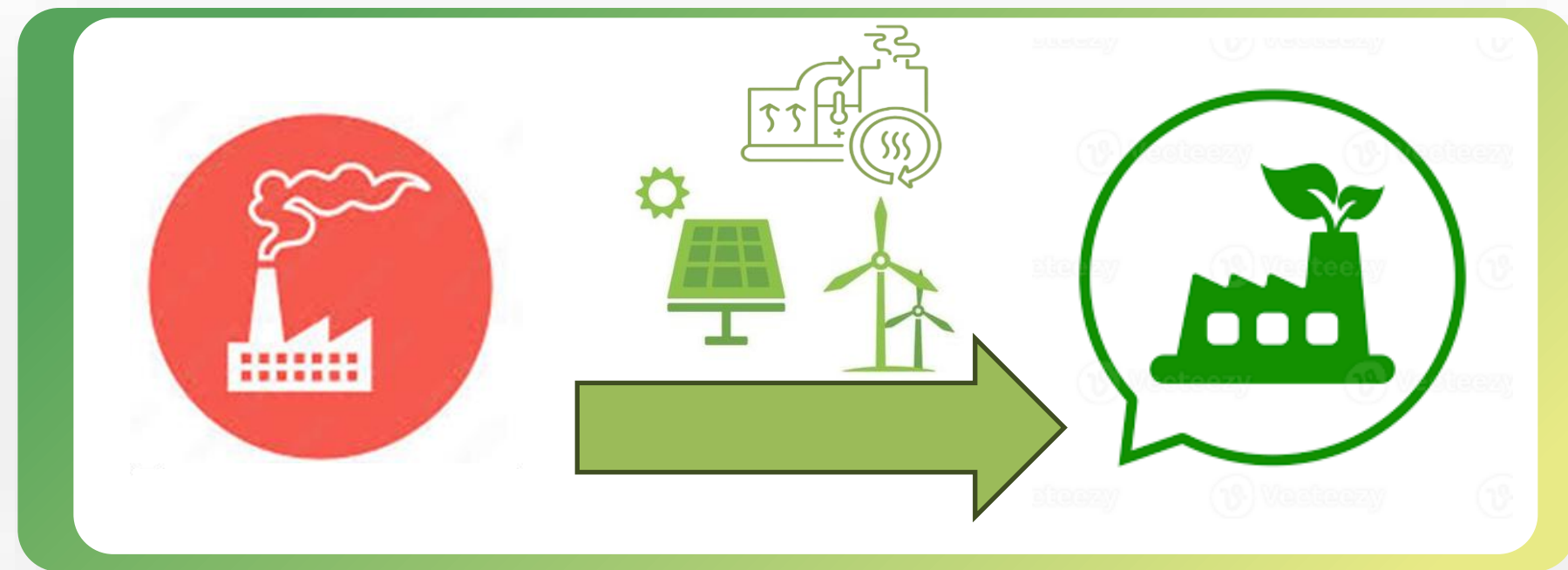




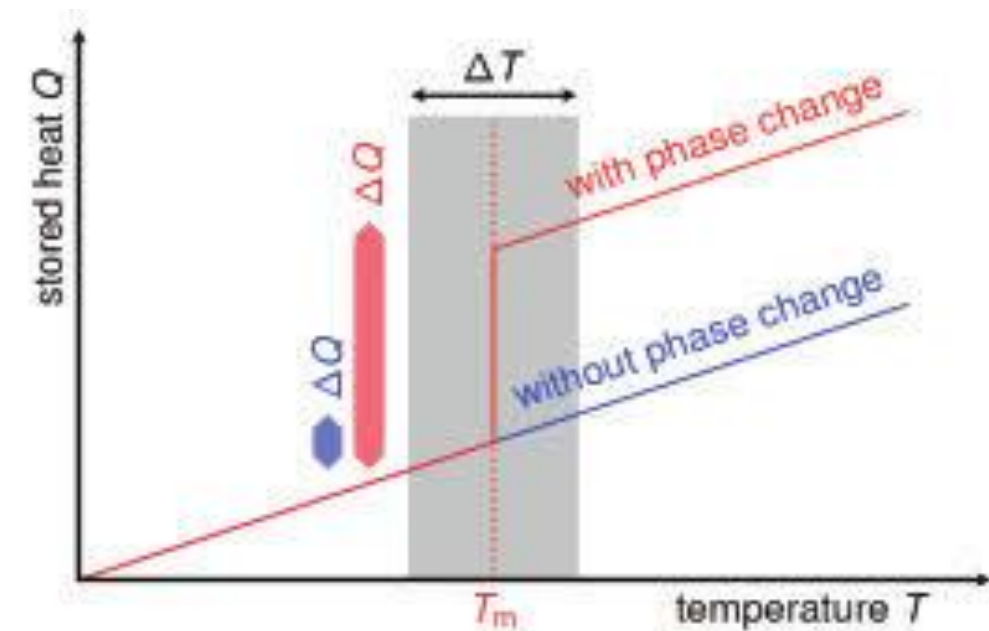
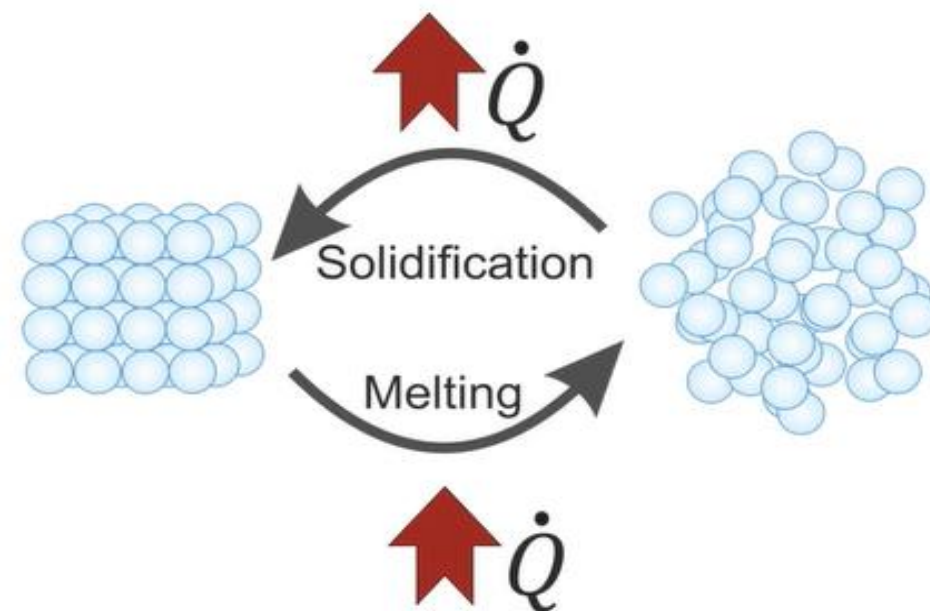
Tackling the 70% industrial fossil fuel dependency.



20-25%
global CO₂
emissions



Using phase change materials, 5-14 times more heat than sensible heat



Inorganic salts



Scaling up latent heat storage for industrial heat decarbonization

160 kWh 20 kW



2 MWh 500 kW
20 feet container



Proven technology in a paint curing oven: 90% efficiency demonstrated



Complete decarbonization with industrial can avoid up to 135 tn CO₂/year



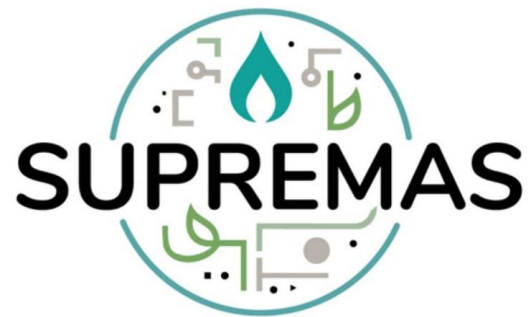
Horizon Europe Projects



<https://ciae.org/proyecto-4tunates/>



<https://cordis.europa.eu/project/id/101177996>



<https://ciae.org/proyecto-supremas/>



<https://renovate-project.eu/>

Proof of Concepts:



Labels



Valid until Sep 20th 2026



Public support:

European programs



Entrepreneurship programs



Challenges



Regional and national funding



Partnerships and R&D collaborations:

Industrial and renewable associations



Energy storage cluster



Red española de almacenamiento de energía térmica

Research centers



CENER



Thermal Spray Center Centro de Proyección Térmica Centre de Projecció Tèrmica



Target industrial sectors





Looking for strategic partnerships

Deadlines 23/09/2025

✓ Industrial corporates

- ❖ High heat demand
- ❖ Excedents from renewables or waste-heat

✓ Project coordinators

- ❖ Research centres related to energy transition, with previous experience as Horizon Europe coordinators

TOPIC CODE	TITLE	TYPE	TRL	Budget (X project)	Nº funded projects
CL4-TWIN-TRANSITION-01-32	Green and resilient flexible production processes	IA	6-7	6-8	4
CL4-TWIN-TRASITION-01-33	Integrated use of renewable energy carriers in industrial sites	RIA	5-6	8-10	3
CL4-TWIN-TRANSITION-01-34	Smart integration of net zero technologies into Energy Intensive industries	IA	7	5-9	4
CL4-TWIN-TRANSITION-01-35:	Embedding upcycling technologies into viable business	IA	5-7	8-10	4
CL4-TWIN-TRANSITION-01-37	Solving issues in carbon-neutral iron and steel making processes with diverse input materials of varying quality	RIA	6	13-14	2

Contact us!



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