

INTREPIDH WEBINAR · 19.06.2026 · 10:00 CET

District heating, reaching out to the process industry

How district heating infrastructure in the Port of Strasbourg supplies industry with recovered heat.

Maxime Augst

R-CUA · R-PAS —
STRASBOURG

R-CUA | Votre énergie
maîtrisée

R-PAS | Réseau de chaleur
des Ports de
Strasbourg



We design, finance, build and operate low-carbon heat heat infrastructure

Based in Strasbourg, R-CUA develops **heat networks, networks, thermal power stations and low-carbon carbon energy projects** — and stays on board for the for the long run.



PART OF AN ENERGY GROUP



€70_M

annual turnover

30

heating networks in operation

44,000

apartments & houses connected

140 km

of heating networks

435 MW

of installed capacity

Port of Strasbourg: France's second-largest inland port



400

companies on the port grounds

10,000

employees on site

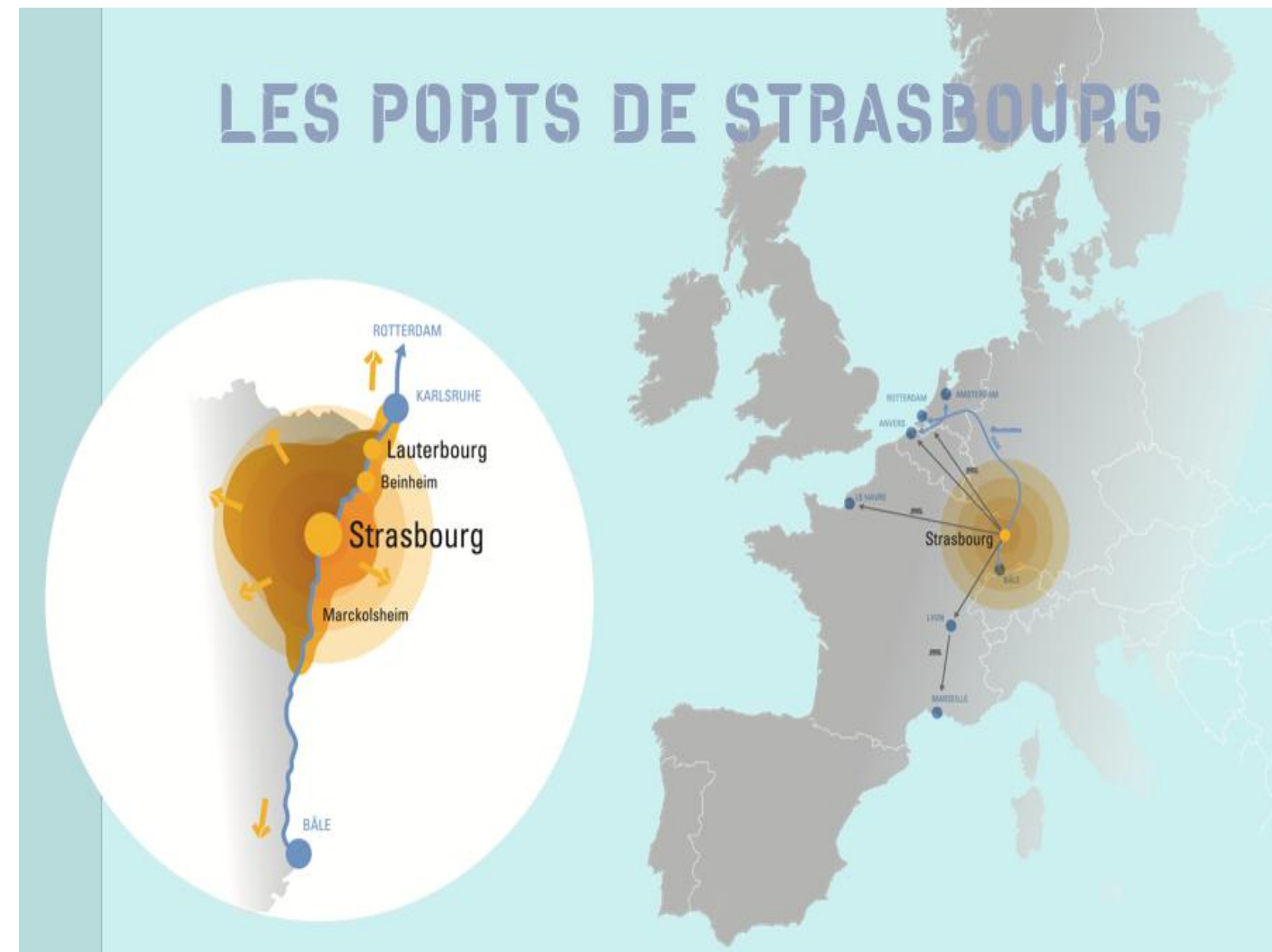
8 Mt/yr

of freight — river, rail & road road

N°1

business zone in the Grand Est region

Port strategy: transform the industrial landscape through **energy efficiency, water efficiency and circularity**.



8 000 000
DE TONNES/AN



5000
ESCALES/AN



200
HECTARES
DE BASSINS



3
TERMINAUX
À CONTENEURS

THE PARTNERSHIP — SINCE 2016



R-PAS: one company to recover the port's heat and share it

Our goal: implement a heat grid that **recovers industrial waste heat** and distributes it — **to industrial sites within the port** and to local citizens through the public networks.

SHAREHOLDERS

82%



10%



8%



16 MW recovered, 65 GWh delivered across the port

€21M

invested — incl. €5.7M ADEME funding

16→20 MW

renewable & recovered capacity by early 2027
2027

12 km

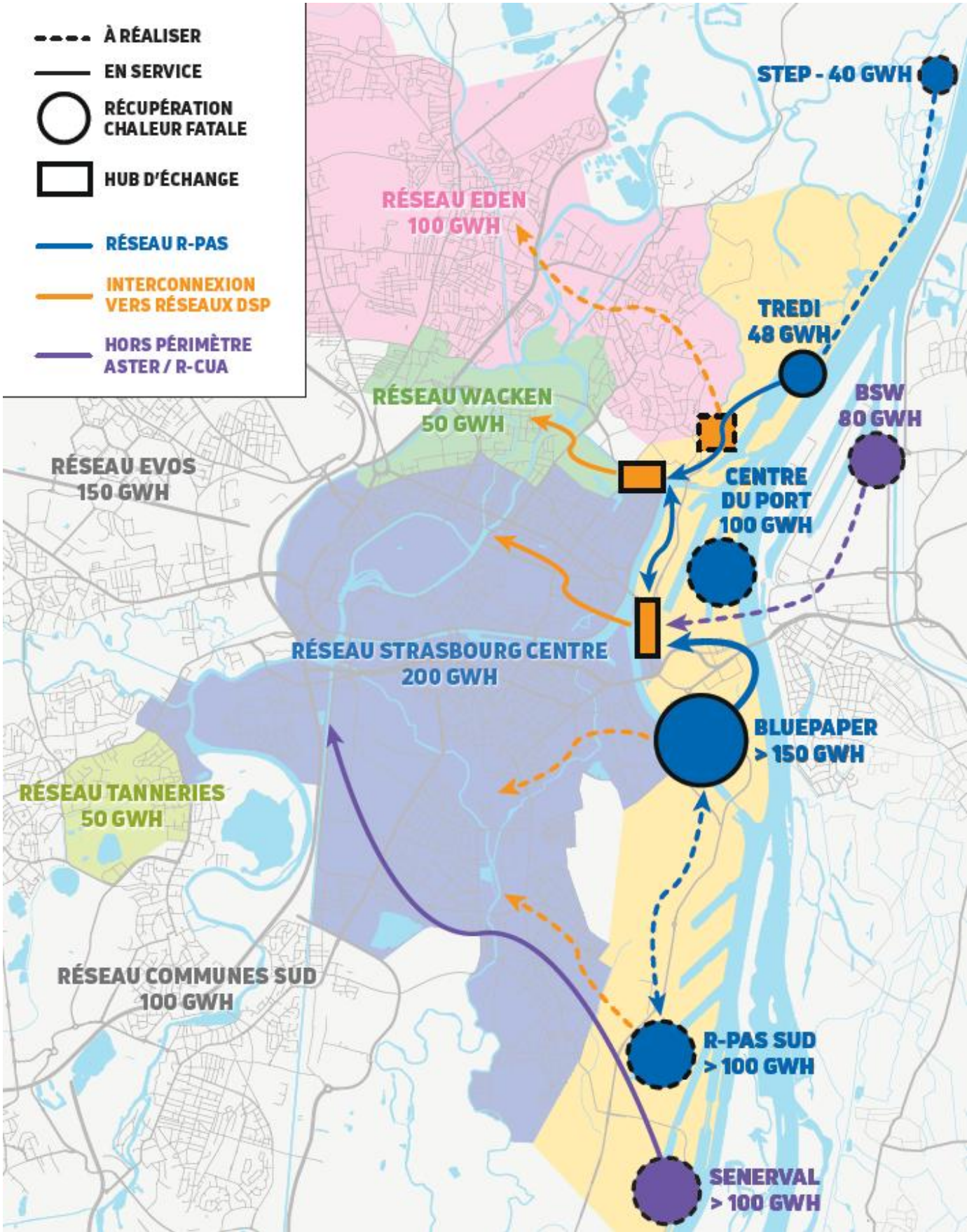
of trenches across the port territory

150 GWh

of recoverable heat available

2025 output: 65 GWh delivered — ≈15,000 t CO₂ avoided

Delivered to public networks (Eco2Wacken, Strasbourg Centre), to the Port du Rhin district — housing, clinic, schools — and to industry.



MILESTONES

From first recovery to a port-wide energy system

BLUE PAPER

2021

First recovery project — Blue Paper cardboard mill

SOUFFLET MALT

2023

First industrial customer — Soufflet malting plant connected



2024

Second recovery project — TREDI waste incineration incineration

ADEME · ZIBAC

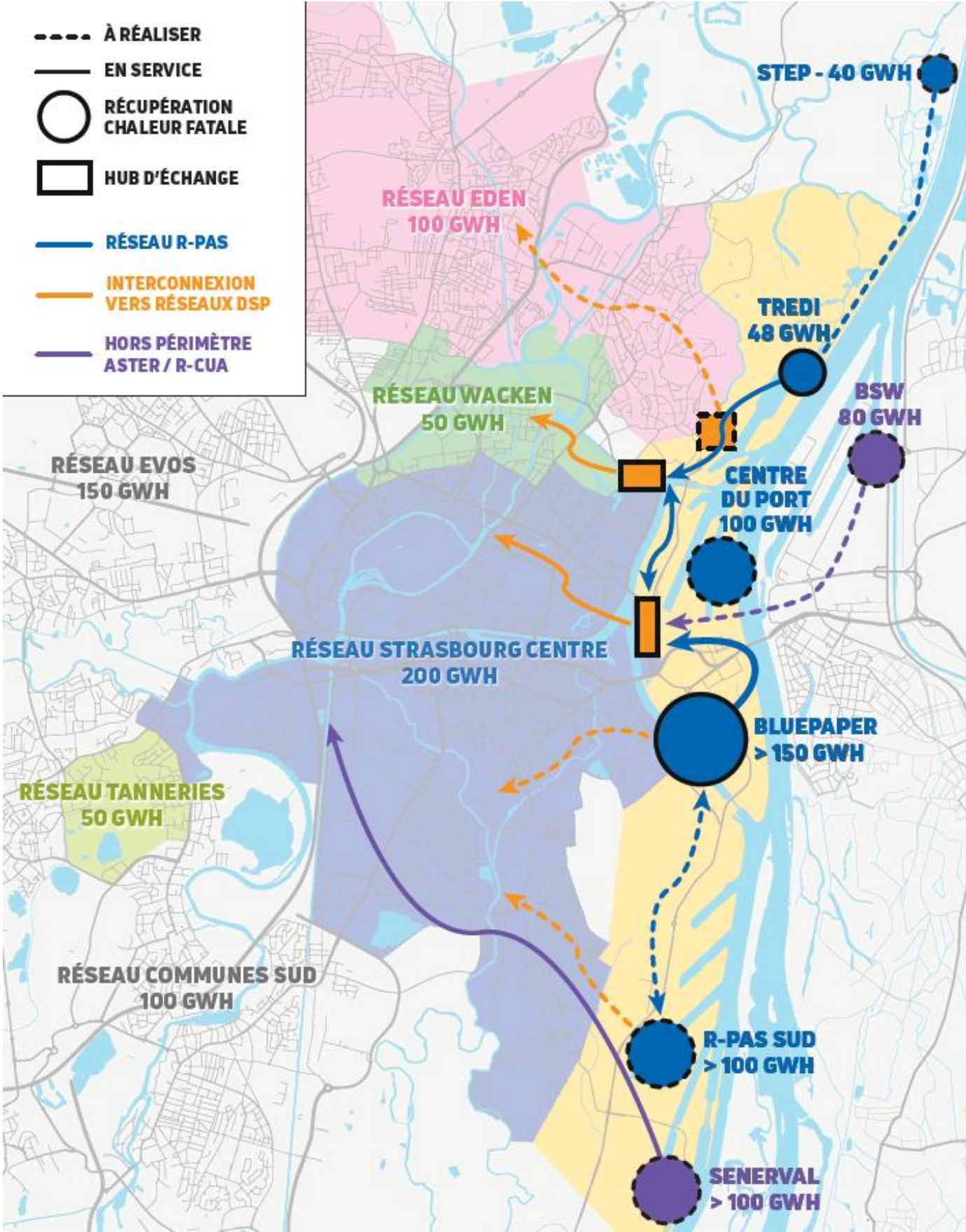
2025

ZIBAC call winner — funding for port-wide decarbonisation studies

STEP + DATA CENTER

2027

Commissioning of the waste-water plant & data-center projects





Blue Paper: waste heat from biomass CHP

2021

commissioning

€13.5M

invested over two phases

3 MW

high-temperature recovery

6.5+4 MW

low-temp recovery + heat pumps



≈100 GWh/year made available to the network

TREDI: waste heat from hazardous-waste incineration

2024

commissioning

€7_M

invested

6–8.8 MW

high-temperature recovery

≈50 GWh

available per year



Recovery on the **hazardous industrial waste** incineration lines



SUPPLYING PROCESS HEAT — FIRST INDUSTRIAL
CUSTOMER

Soufflet Malt: up to 100% renewable heat on an industrial process

2023

commissioning

>5 MW

installed at the SMA site

100%

EnR&R rate achievable on the
the process

Heating, hot water and the malting process served from one custom substation
substation

Substation designed around **industrial constraints** , integrated into the existing site

Adaptable to existing assets — **gas CHP kept** under a purchase contract

R-PAS supported the **secondary-circuit adaptations**

SOUFFLET  MALT



R-PAS SUBSTATION INSIDE THE MALTING PLANT

A business model that works for both sides

75%

of Soufflet's summer heat needs covered

90–100°C

heat delivered, April–October

Business case

- Business plan built **on each side** to assess viability and profitability
- Profitability demonstrated — heat supply very very competitive
- Decarbonisation: only renewable & recovered heat is delivered

Contract & connection

- Long-term contract** ; connection fee paid, R-PAS owns the substation
- Turnkey connection — no extra work required on site
- Soufflet chose to modernise: heat battery replaced, secondary circuit adapted
- Opex: energy (R1) + annual subscription (R2)

Next steps

- Reach **100 °C** delivery temperature
- Cover **100% of summer needs**
- Add a **winter supply contract** as the gas CHP retires

Four challenges to overcome

01

Operating a multi-producer grid

Matching grid needs with production
Low district-heating demand in summer
Back-up & auxiliary plants
Growing network capacity
Reliability of high-temperature heat pumps

02

Staying competitive

Deliver renewable & recovered recovered heat at a price that stays competitive for end consumers

03

Contracting

Long-term supply commitments commitments
Risks — incl. industrial site shutdown
Secure guaranteed off-take & supply volumes
Align industrial & network operators' schedules

04

Financing

Mobilise the capital required to to build out and scale the energy-energy-recovery network

Defining compatibility between industry and the network

Technical criteria

Temperature — is a temperature boost required?

Power output available vs. needed

Seasonality — flat industrial load vs. climate-driven demand

Availability & continuity — management of backup supply

Centralisation of on-site heat recovery

Network & economic criteria

Interconnection of networks & producers — diversification, risk mitigation, better EnR&R coverage

Heat valorisation to district networks and other industrial users

Scalability — room for the project to expand

Economic balance — end-user price and tariff stability

Risk of industrial heat-producer failure

Doubling the network: +15 MW and >250 GWh by 2028

+€23M

investment — incl. €8.8M ADEME

+8 km

of trenches across the port

35 MW

capacity by 2028 (+15 MW)

>250 GWh

available by end 2028

New projects being launched

Waste-water treatment plant (STEP) — recovery on the sludge incinerator

Data center

Recovery studies underway — residual steam, effluents, data centers...

Next challenges

Decarbonising industry — on-site and through the district heating network

Reducing water consumption by recovering energy

Storing energy — and releasing it at the right time

Thank you for your attention.

Questions welcome.

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