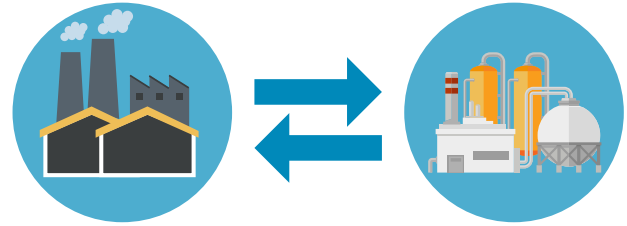


CASE WATCH 08 : INDUSTRIAL HEAT NETWORKS

Optimise heat use in process industry via heat networks in industrial clusters.

Increase energy efficiency by cross-sector collaboration in industrial heat networks.



CASCADING OUR HEAT

KEY INSIGHTS

- reduce energy intensity
- reduce CO₂ emissions
- reduce primary heat sources
- integrate sites & clusters

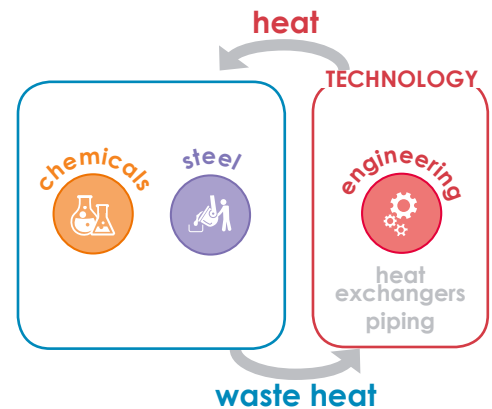


Figure 1: Synergy scheme ¹

CROSS-SECTOR COLLABORATION

Energy-intensive industries have a high potential to exchange waste heat in industrial clusters.

Industrial clusters have a growing demand for heat exchange with regional networks.

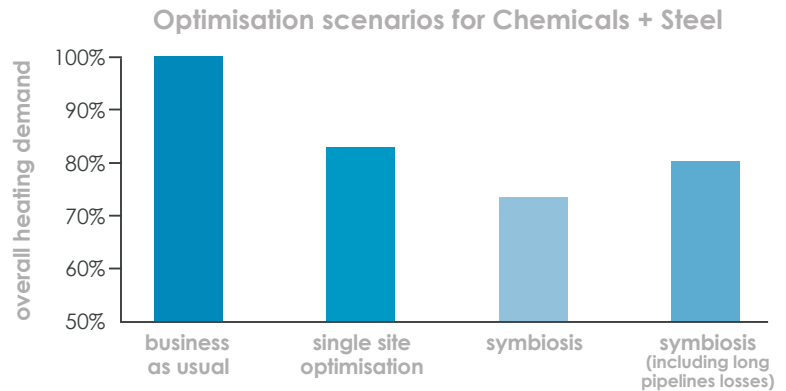


Figure 2: Cross-sector potential ¹

SUSTAINABILITY IMPACT

Wins for industry

- › overall gains: 0-15 €/MWh exchanged (depending on distance)¹

Environmental gains

- › primary energy savings: 10-30 MW/typical steel or chemicals plant¹

Wins for society

- › public health benefits due to energy reuse
- › improved community relations in regional clusters
- › job creation and new skills development¹



Figure 3: Sustainability ¹

CASE WATCH 08 : INDUSTRIAL HEAT NETWORKS

REFERENCES

1. H2020: EPOS project. 2015 – 19.
<https://www.spire2030.eu/epos>