

## CASE WATCH 03 : DISTRICT HEATING

Reuse low-temperature waste heat from process industry to supply district heating networks.

Reduce primary resources by valorising waste heat in communities.



### HEATING OUR CITIES

#### KEY INSIGHTS

- value waste energy
- reduce CO<sub>2</sub> emissions
- invest in district heating
- collaborate with society

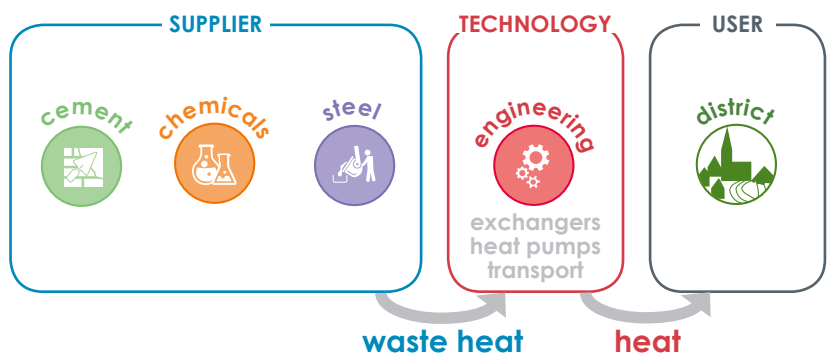


Figure 1: Synergy scheme <sup>1</sup>

### CROSS-SECTOR COLLABORATION

Energy-intensive industries have a high potential to share waste heat with surrounding communities.

Communities have a growing demand for waste heat to feed district heating networks.

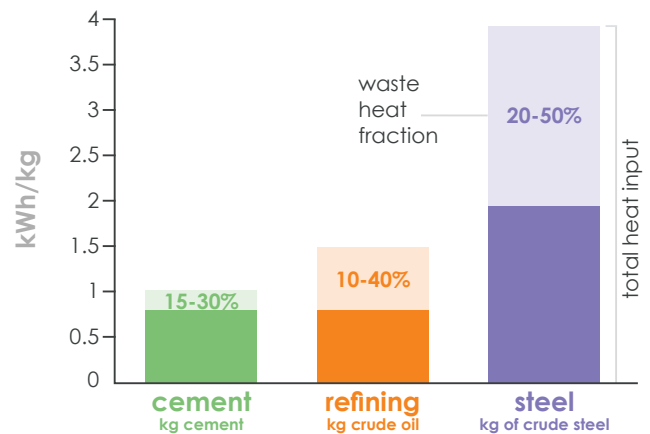


Figure 2: Waste heat potential per sector <sup>1,2,3,4</sup>

### SUSTAINABILITY IMPACT

#### Wins for industry

- > for suppliers: 17-20 €/MWh waste heat<sup>1</sup>
- > for districts: increase heating network efficiency<sup>5,6</sup>

#### Environmental gains

- > primary resource savings:  
10-20 kWh saved/ton crude steel produced<sup>5,6</sup>

#### Wins for society

- > waste heat supply to communities<sup>6,7</sup>
- > improved community relations in regional clusters
- > job creation and new skills development<sup>6,7</sup>

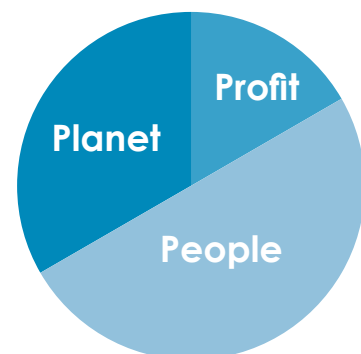


Figure 3: Sustainability <sup>1</sup>

### REFERENCES

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