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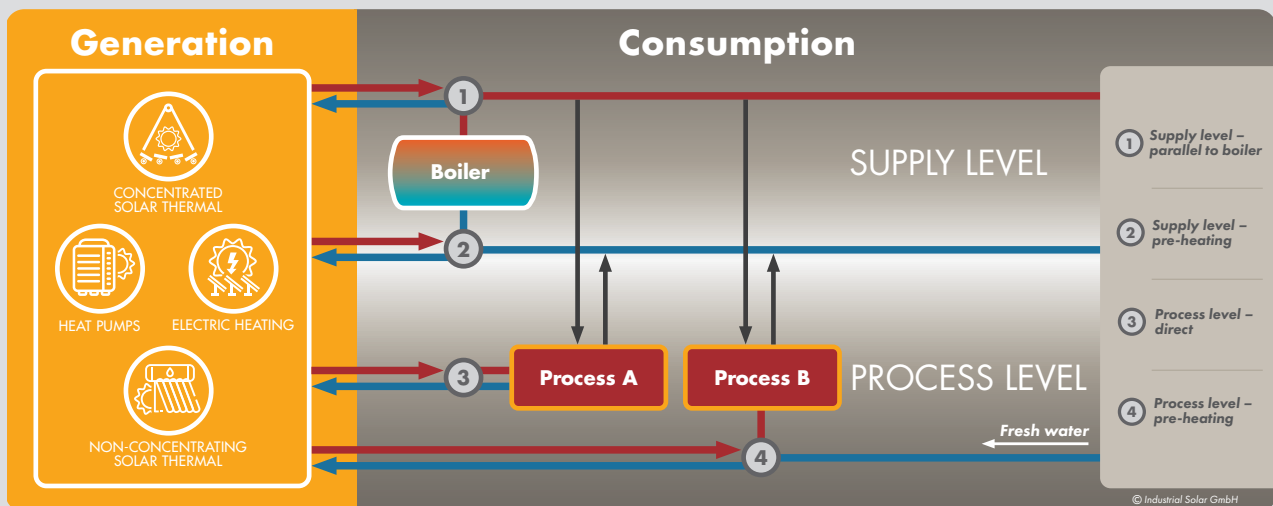
## ○ Energy Concepts - Assessment of Process Heat Decarbonisation

Different technologies for the decarbonisation of process heat are available, yet to develop an optimised solution, various logistical parameters and limitations need to be considered. Thermal energy demand, location, size, and technologies all need to be addressed to find the best and most suitable option.

### ○ Scope of Work

As part of our service, we provide:

- Assessment of **thermal energy demand** and site constraints
- Assessment of renewable resources on site
- Comparison of suitable **renewable process heating solutions**
- Identification of suitable **integration concepts**
- Description and **simulation** of relevant options
- Comparison of different locations
- **Economical assessment**



### ○ Evaluation and Results

- Characterization of process heat demand
- Simulation Results (energy balance)
- Conceptual layout (system dimensioning, schematic drawing, conceptual P&ID)
- Cost analysis (CAPEX & OPEX)
- Techno-economic evaluation based on KPIs -Key Performance Indicators
- Concluding recommendation for action

#### KEY PERFORMANCE INDICATORS:

- **Energy Savings (MWh)**
- **Renewable Share (%)**
- **Efficiency / Performance Ratio (%)**
- **Cost Savings (annual)**
- **Payback Years (annual)**
- **CO<sub>2</sub> Reduction (tons/a)**