

# Process Energy Optimization

## Your Benefit

- Reduced energy- and operation costs
- Reduced environmental emissions
- Improved process reliability
- Our services and solutions enable you to manage your energy effectively

## Our range of services

Energy studies, with deliverables of:

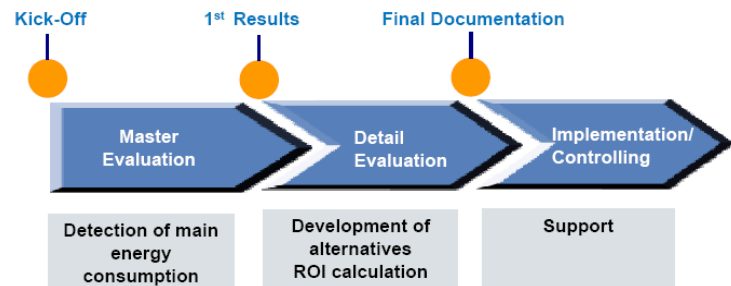
- List of projects with estimated saving potential
- Rating matrix with project prioritisation with estimated costs for implementation
- Design and Engineering Support and backup for implementation

## Project examples

- Substitution from expensive utilities (brine, high pressure steam) by process optimization and heat integration (pinch-technology)
- Reduced energy costs by intelligent apparatus design
  - Study for condensate utilisation

## Basics

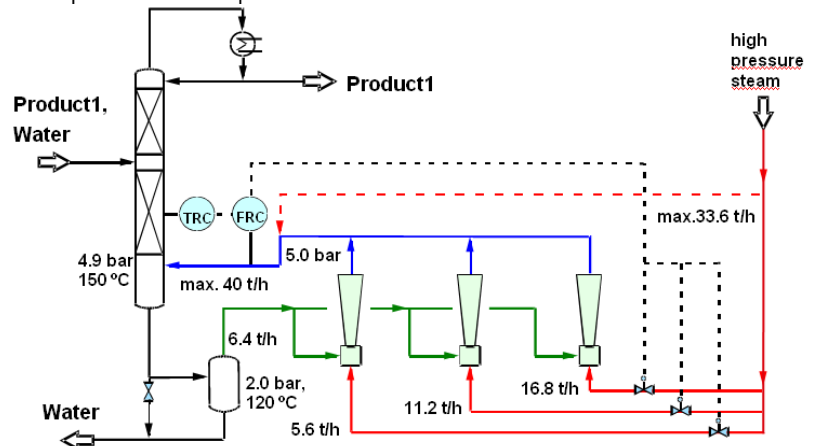
Typical process of a process energy optimization:



In addition electrical energy use (e.g. drives) and building energy use can also be included in the Energy Optimization study.

## Example

Application of a steam emitter to reduce high pressure steam in a process for separation water/product1



Application of expansion stream and emitter to reduce amount of high pressure steam by approximately 6 t/h:

- saving: 500.000 Euro/year
- ROI: few months

## Interested? Contact us!

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