

# Bio Energy & CHP Solutions

Reduce needless wasted energy, and associated costs  
Increase energy efficiency through process optimisation



## A suite of tools to support conceptual design through to operational optimisation.

When energy is being generated some of this energy is 'wasted'. Power generation sees significant amounts of energy being lost in relation to the amount of useful energy produced and in building where heat and power are generated separately, this can equate to a lot of energy being wasted needlessly. In turn this equates to higher costs and low energy efficiency.

The solution enables organisations to develop a greater understanding of key cogeneration process flows. Also, this enables the ability to simulate possible future scenarios, set benchmarks for the site, validate the operation and identify area to improve the process

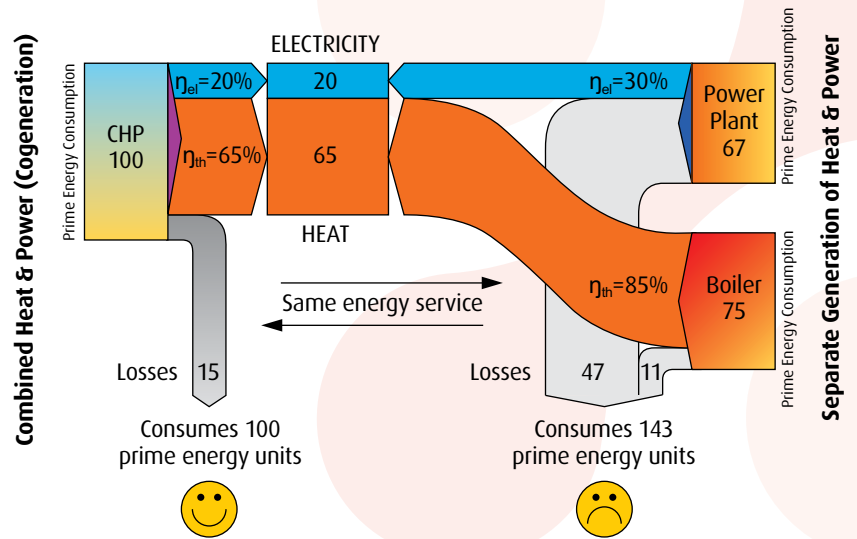
Our comprehensive service offering provides support to organisations at all stages of the journey, from initial design to implementation at the point.



## Deliverables

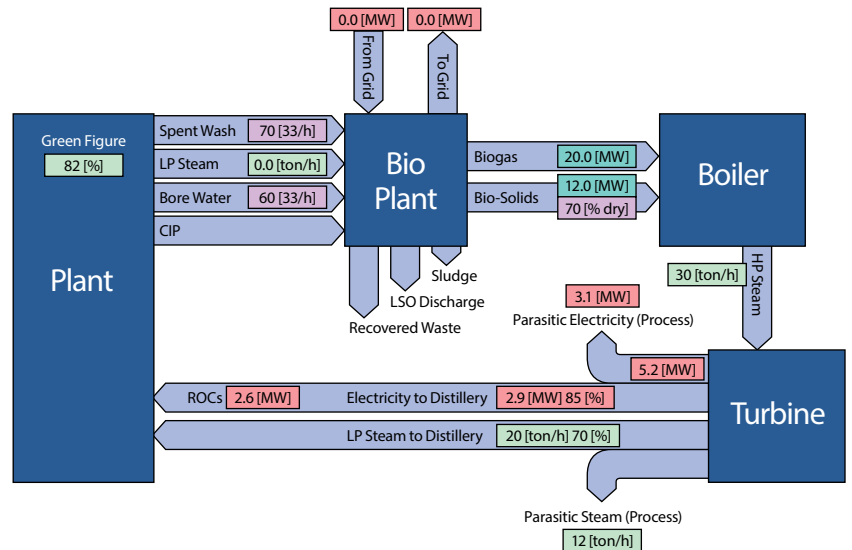
Cotopaxi's bio-energy and CHP service solution has a proven track record in benefitting organisations with the following key deliverables:

- Live model covering key process flows
- Benchmark and challenge existing outfits
- Headline KPI's to simplify/focus operation
- Answer future "what-if" scenarios
- Identify opportunities for improvement
- Energy and CO2 optimisation
- Automated financial reports
- Independent assessment of plant operation and performance
- Evaluation of the most suitable CHP/Bio-energy options for the customer
- Profiling the steam/energy/electrical demands of the end process of correct sizing of CHP or Bio-Gen options



The approach taken towards implementing our bio-energy solutions is as follows

- Complete initial site review
- Compile site database
- Parameterise and validate model
- Apply KPI, benchmark plant
- Identify and prioritise opportunities
- Integrate into plant operation
- Validate solutions
- Implement extended services



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