



BoFiT: Waste2Energy

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Bring production planning to the next level at waste-to-energy plants and action municipal climate protection goals through optimisation with BoFiT: Waste2Energy.

The solution supports the production management of waste-to-energy power plants in relation to their connection to the electricity market. BoFiT prevents deviations from the schedule and helps to reduce imbalance costs.

BoFiT comes with a built-in process engine. It goes all the way from short-term operational planning to energy

trading and scheduling. BoFiT provides optimal schedule values as well as trend values. Such values can be accessed and displayed by using web-based applications. Dashboards can easily be made visible on crane driver display panels and similar.

Optimisation through BoFiT helps you pursue and achieve municipal climate goals.

Who Is BoFit: Waste2Energy For?

BoFiT: Waste2Energy is beneficial for those working with short-term operational planning, energy trading and scheduling at waste-to-energy plants.

Product Description

- Sector coupling: Involving waste incineration, sector coupling across different energy flows such as steam, heat, electricity and hydrogen can be achieved with optimised operational planning in a municipal context with BoFiT.
- Optimisation: With BoFiT, it is possible to model energy systems consisting of multiple energy assets, including waste incineration plants. One or more waste bunkers can be modeled as a storage of waste fuel in a BoFiT optimisation model.
- CO2 certificates: A CO2 balance can be modeled in BoFiT to ensure that municipal emission limits are met.
- Green electricity and climate neutral heat: The heat offtake from waste incineration is classified as industrial waste heat. Therefore, it can be used

in district heating systems just like heat from renewable energy sources. Likewise, the electricity generated from waste incineration is green electricity and can be provided with a proof of origin.

- Forecasting: With BoFiT, forecast models are created based on historical data, calendar data and weather data. For this purpose, we use machine learning methods.
- W2E cockpit: With Theдора Dashboards a W2E Cockpit can be build to receive clear visualisation of the data generated in BoFiT. Customised dashboards can be configured using widgets. Individual operator views with an integrated availability monitor and the possibility to call up BoFiT workflows and editing time series, constraints and restrictions directly is also possible.

