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BIOENERGY

TECHNO-ECONOMIC MODEL FOR THE GENERATION OF RENEWABLE ENERGY FROM ORGANICS

Client: Unitywater

Scope: The creation of a spreadsheet based model for rapid preliminary capital cost estimation and quantification of associated benefits (reduced waste management costs, renewable energy credits, thermal heating) for facilities to convert organics into bioenergy via the use of biogas fired co-generation engines.

The preliminary design and associated economic implications of bioenergy facilities were distilled down to the most critical parameters to increase the rate at which different scenarios could be considered.

Feed stocks considered included primary & secondary sludge as well as additional substrates.

