



A Revolution in Wastewater Treatment



Value Proposition

NVP Energy delivers significantly reduced treatment costs and a short return on investment for prospective customers in the global food & drink and municipal wastewater industries.

NVP Energy enables major cost savings in comparison to alternative wastewater treatment methods through significantly lower operating costs and on-site utilisation of the high quality biogas produced by the process.



**Very Short
Payback Period**
Average 3 Years



**Substantially Reduce
Treatment Costs**



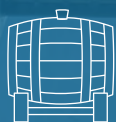
**Carbon Neutral
& Energy Positive**



**Dairy
Processing**



**Meat
Processing**



**Brewing
& Malting**



**Beverage
& Bottling**



Distilling



**Municipal
Industry**

Trade Effluent Savings

The majority of UK food and drink industry customers elute their wastewater to industrial sewers and in doing so, pay a trade effluent charge to a local utility provider.

NVP Energy offers 60%+ savings on trade effluent charges by reducing COD by >80%, sludge production by >90% and TSS by >50% with low OPEX compared to alternative treatment solutions.

Exceptionally high quality biogas with >85% methane content produced by the process can be 100% utilised on site to offset fossil fuel usage and reduce energy costs.

With an average payback period of 3 years, the technology is a compelling proposition compared to alternative technologies on the market which offer paybacks in excess of 10 years.

Mandatory Treatment

For food & drink industry customers who are obligated to discharge to local watercourse under EA consent licence, NVP Energy offers a compelling value proposition:

New Build Wastewater Treatment Plants

NVP Energy can be installed as an integral part of a wastewater treatment solution to ensure consent limits are achieved, with low OPEX and high quality biogas generation for on-site use.

Production & Capacity Increases

NVP Energy can be integrated into an existing wastewater treatment plant to increase capacity and reduce aeration costs, essentially allowing the customer to 'sweat' their existing assets while ensuring consent limits are achieved with low OPEX compared with alternatives along with biogas benefits.

The Technology

Key Features

Removes Wastewater Pollutants

- >80% COD removal
- >50% TSS removal

For low strength wastewater at <6,000 mg/l COD

Negligible Sludge

Produces 90%+ less sludge than other aerobic and activated sludge processes.

Low Temperatures

Uniquely treats wastewater from high temperatures to as low as 4°C, without any performance impact.

A first of its kind technology that is non-temperature dependent.

Generates Energy

High quality biogas produced at 85% methane content.

100% available for use in heat & electricity production on-site as process does not require any heat input.

NVP Energy is a unique, innovative wastewater treatment technology that addresses the treatment of low strength wastewater for its target markets.

The technology is a sustainable and cost effective wastewater treatment approach ideally suited to the food & drink and municipal wastewater industries.

Alternative wastewater treatment technologies such as aeration/activated sludge have high energy costs and offer long paybacks and require a large footprint. NVP Energy's solution has a compact modular footprint, offers dramatically reduced operating costs (60%+ savings) and generates high

quality biogas, offering an average 3 year payback period on capital spend.

The technology has been commercialised at full-scale and is successfully operating in the meat processing and dairy industries, with sites currently being developed in the brewing, malting, distilling, beverage & municipal sectors.





Join the Revolution

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