

European
Commission

Horizon 2020
European Union funding
for Research & Innovation

Innovate UK



Shell
Springboard



BlueTech
FORUM



Sustainable
Energy Awards
2016

Winner



Rushlight Awards
Winner 2018/19

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Low-Temperature
Anaerobic Digestion

*A Revolution in Wastewater Treatment
for Global Food & Drink Industries*



Unique Treatment & Energy Solution

NVP Energy has developed a first-to-market, proven *high rate anaerobic digestion* wastewater treatment technology with global reach that uniquely *treats low strength wastewater at low temperatures*.

Patent Portfolio: Patent Approved USA & Europe

NVPE solution enables customers to deploy an on-site '*wastewater to clean water energy factory*' offering a compelling payback

Non Temperature Dependent (unique) (As low as, 4°C to 40°C)

Removes Wastewater Pollutants (>80% COD/BOD removal, TSS & Sludge)

High Quality Biogas (100% available to end user) (>85% CH₄ content)

Modular Design, off site manufactured & Small Footprint

Scalable – Multiple Modular system can treat any volume of wastewater

Energy Positive & Carbon Neutral – v. low running and operating costs

Passive system with Bespoke Smart Remote Monitored Controls System

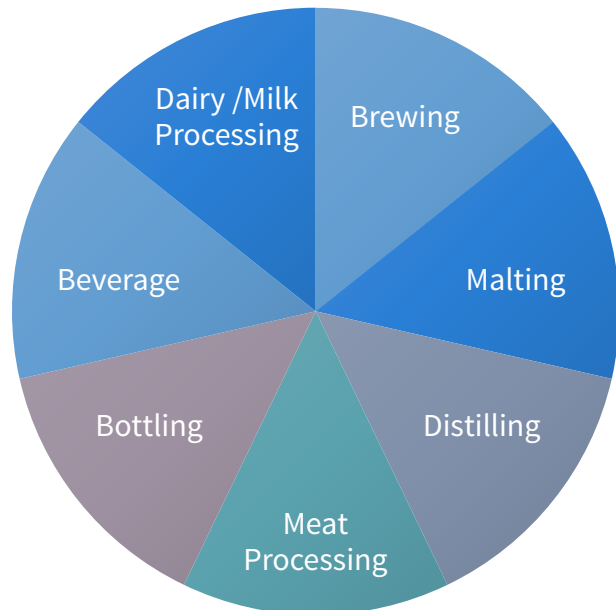


Market, Problems & Solution

Target Markets

Low Strength WW Producers

Food & Drink Industry



Municipal Wastewater Treatment

Low Strength Wastewater Treatment Problems

High & Increasing Trade Effluent Charges

Difficulty achieving strict discharge consent limits

High Operating Costs

A need to reduce energy consumption & costs

NVP Energy Solution

Reduce trade effluent charges by >60%

Customer elutes WW to sewer

Achieve licence consent limits

Customer elutes WW to watercourse

Produces biogas (>85% methane)

100% available for use on-site

Low Operating Costs

Passive system
No aeration required

Modular & Scalable

Increase production
Staggered CAPEX

NVP Energy Technology - Market Pull



Meat Processing Industrial Dairy



Brewing/Cider



Municipal

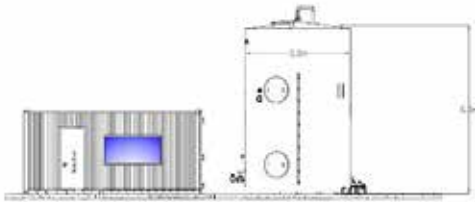


Malting



Scottish Malting Site

Craft Brewing



UK & Ireland Craft Brewers

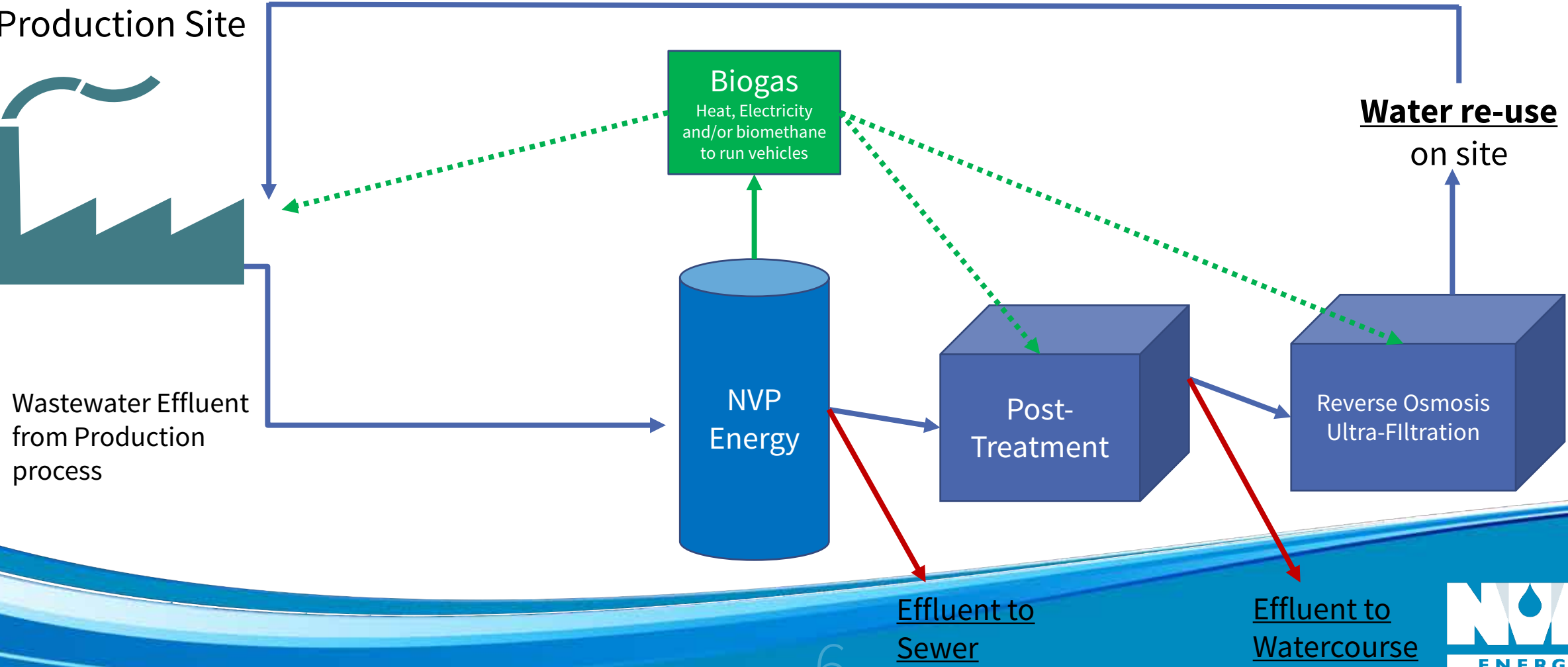




Brewing Project
Completion



NVP Energy – “Resource Recovery Factory”





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