



Using our technology selector Morgan Sindall's Waste Experts analyse every element of the project and potential solutions to make sure we help you make the right decision.

From the supplier's finances to the technology performance, our selector uses in depth information to analyse the options, scoring them against your project drivers. We simplify your journey.

Professional Services

Maximising EfW returns

Evaluating technologies is key to project success

With the prime goal of maximising your outputs, our technology selector is an intelligent system which marks the suitability of technology based upon your brief and goals.

From your brief we weigh and score over 160 parameters from company stability, available feedstock, effectiveness of the technology, building design needs and the project's commercial viability. Comparing any number of suppliers we make sure the solution is right for your needs.

How we weigh them

Our experts rank your needs and brief against our weightings: don't care, preferred, required, ideal and show stopper. We assign each of the 160 parameters, a weighting of 1 to 10.

How we score them

The parameters are then scored using information from each technology provider and their performance scaled using: none, poor, good, better, almost perfect and perfect with a score of 0 to 5.

The result

A weighted scoring matrix that quickly identifies your ideal solution for further investigation. Our experts can then provide due diligence to find the right solution for you.

About the company				
Evaluation parameters	Your weighting	Details	Score	Overall score
Company head office location	0	*****	0	0
Contact name	0			
Contact phone	0			
Contact email	0			
UK office location	0	**		
Company website	0	www.*****.com	0	0

Collect all base company information.

Company due diligence				
Evaluation parameters	Your weighting	Details	Score	Overall score
Is supplier the technology manufacturer	10	No	0	0
Completed MS PQQ	6	Yes	0	0
Other SHEQ verified eg. Achilles	6	No	0	0
Tech. supplier ISO9001	6			
Tech. supplier ISO14001/EMAS	6			
Tech. supplier ISO18001	6			
Completed MS supplier evaluation	6			
Tech. supplier incorporation date (year)	10	2001	3	30
Tech. supplier annual turnover (£'000s)	10	£0	0	0
Tech. supplier forward order book (£'000s)	6	£0	0	0

Ensure technology suppliers are financially robust and safe.

PLUS 16 other categories

Feedstock due diligence

Evaluation parameters	Your weighting	Details	Score	Overall score
Feedstock characterisation study completed	10	No	0	0
Intended majority feedstock	10	PCFW	6	60
If majority feedstock is energy crop, what is the crop	4			
What area of land used for crop production (ha)	4			
UK postcode of cropped land	10	0	0	0
Technology suited to post consumer food waste (PCFW)	10	Yes	5	50

Analyse the processing capability for a range of feedstocks.

PLUS 6 other categories

Technology due diligence

Evaluation parameters	Your weighting	Details	Score	Overall score
Project required annual throughput (tpa)	0	50000	0	0
Min. commercially viable module capacity (tpa)	6			
Max. module capacity (tpa)	10			
50,000 tpa facility footprint (ha)	4			
50,000 tpa facility max. height (m)	6	20	2	12

Evaluate the performance of the critical components and determine the best technology for the available feedstocks.

PLUS 48 other categories

Facility due diligence

Evaluation parameters	Your weighting	Details	Score	Overall score
Outline facility proposal	6	Yes	5	30
Guaranteed min. operational hours/yr	10			
Percentage of contraries captured (%)	10			
Percentage of biowaste rejected (%)	10			
Detailed description of facility operation	6	Yes	5	30

Evaluate the design and performance of the complete facility based on the individual technology option.

PLUS 26 other categories

Project due diligence

Evaluation parameters	Your weighting	Details	Score	Overall score
Required fully commissioned handover date (months)	6	18	3	18
Project delivered, installed & commissioned cost (£'000s)	10			
Project operational cost/yr (£/yr excluding labour)	10			
Recommended spares package cost (£)	4			
Number of senior operational staff	4	2	5	20

Develop a full financial model for the project's commercial performance based upon the recommended solution.

PLUS 33 other categories

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MORGAN SINDALL

Our specialisms

Waste/feedstock analysis

We work with you to validate quantity and quality to determine how much energy can be generated. Producing detailed mass and energy balances for the overall process we help drive your financial model.

Due diligence

Our expert and independent process engineering skills and in-house construction, tunnelling and M&E specialists help you decide on the right solution to match the uniqueness of your project. From power campuses and energy from waste to water treatment, our teams deliver solutions across the full spectrum of energy and waste.

Engineering development

At the early stage of project development we bring the benefit of our multidiscipline teams - with process, design, construction and commissioning experience working to coordinate and facilitate efficient solutions.

Maximising third party income

Up to date with the latest legislative and fiscal changes, we help you get the most out of Feed in Tariffs (FITs), Renewable Obligation Certificates (ROCs) and Renewable Heat Incentives (RHIs).

Our successes



When the army wanted renewable energy we didn't horse around

Kings Troop, Royal Horse Artillery, Woolwich, London, UK

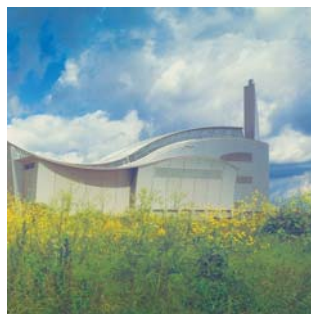
Used stable bedding will feed an on-site biomass boiler, generating renewable heat energy to provide the stables and grooming area with hot water and office heating. We're providing due diligence and support to the contractor.



When an airport wanted sustainable heating our ideas set them alight

BAA Energy Infrastructure Project, Heathrow, London, UK

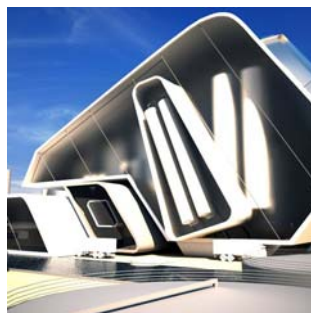
The Energy Infrastructure Project is the first phase in the implementation of the Heathrow 2020 site-wide energy infrastructure strategy. Provides heat to terminal and ancillary buildings.



When a major utility said they wanted a sludge incinerator, we gave them a work of art

Thames Water Sludge Incinerator, East London, UK

Complying with EC directives to terminate sea disposal, this project processes 25% of London's sludge with a power output of 5.5MW and a minimal carbon footprint. Won a Civic Trust Award in 2000.



When an investor wanted a biomass scheme we challenged the norm

Concept biomass scheme, UK

Challenged to create an engaging biomass scheme we developed a concept design which enhanced the proposed location and completely integrated the process within. Considering logistics, access was essential and was approached with an integrated community focus.

Get in touch to find out more

United Kingdom

Glasgow

London

Manchester

Stratford-upon-Avon

International

Switzerland

France



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Want to collaborate?

We'd love to hear from you

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Boundless possibilities