

## Insight into: Energy from Waste



As the UK energy supply is moving away from the use of fossil fuels and becomes more focused on low carbon technologies along with the increased cost of taking waste to landfill the Energy from Waste market has grown in importance both in reducing environmental impacts and in filling the void left by the closure of coal fired stations.

ENGIE Fabricom, predominately operating in the oil and gas sector, has set a strategy to diversify into new growth sectors such as renewable energy.

The Energy from Waste market and the portfolio of projects around the UK provide the perfect opportunity for ENGIE Fabricom to utilise its extensive capabilities to support the growth of this sector.

Today ENGIE Fabricom is involved in two significant Energy from Waste projects, the first being the Energy Works Hull project which will be the first facility of its kind in the UK; the second being the Shepperton Eco Park project, which once constructed will enable Surrey County Council to have long-term control of its waste.



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#### ENGIE Fabricom East

Origin 3, Origin Way  
Europarc  
Grimsby  
North East Lincolnshire  
DN37 9TZ

T: +44 (0)1469 576411

#### ENGIE Fabricom North East

Prospect House  
24 Ellerbeck Court  
Stokesley  
TS9 5PT

T: +44 (0)1642 717500

[www.engie-fabricom.co.uk](http://www.engie-fabricom.co.uk)

#### ENGIE Fabricom UK Group Locations:

London ■ Grimsby ■ Immingham ■ Stokesley ■ Middlesbrough ■ Lowestoft ■ Newcastle upon Tyne ■ Aberdeen

“**ENGIE Fabricom, part of the global group ENGIE, is uniquely positioned within the engineering, procurement and construction market to provide end to end solutions to our clients. This is achieved by combining high level engineering skills with a wealth of construction expertise and capability across all UK industry sectors including Oil, Gas, Power, Chemical, Utilities, Energy from Waste and Renewables.**”

## Our core capabilities include:

- Consultancy
- Engineering and Design
- Project Management
- Procurement
- Manufacturing
- Construction
- Commissioning

**Our aim is to be our clients' Partner of Choice**

## Energy Works Hull

ENGIE Fabricom has played a key role in the development of the design and construction of the £200m Energy Works EfW plant on Cleveland Street in Hull which will power up to 43,000 homes. Energy Works will be the first facility of its kind in the UK, using a combination of innovative renewable energy technologies to achieve a highly efficient mix of recycling and energy conversion processes.

M+W Group, the main Engineering, Procurement and Construction contractor, selected ENGIE Fabricom as their principal engineer for the project, to provide expertise and support through process engineering and design of the Water Steam Cycle.

ENGIE Fabricom was initially awarded the Approved for Design package, and was then selected to bring the project through to the detailed design and engineering stage, ready for construction. The scope included: developing the piping and equipment in the 3D model, pipe bridge design, isometric piping drawings, production of equipment datasheets and specifications for the equipment, as well as equipment and material procurement.



ENGIE Fabricom has subsequently been appointed to conduct the main mechanical construction of the project including the gasification plant and balance of plant packages, which are now underway.

## Shepperton Eco Park



ENGIE Fabricom has been awarded a significant part of the Eco Park project being constructed at the existing Surrey County Council site at Shepperton, which is operated on their behalf by Suez Recycling.

The Eco Park project is a combination of advanced technologies, including anaerobic digestion and a gasification plant which will process 55,000 tonnes of waste annually. The overall project is being constructed by M+W Group who has selected ENGIE Fabricom to deliver the gasification plant construction and steam and water cycle system.

The gasification plant construction includes the installation of steel structures, boiler, gasifier, scrubbers, bag house and I.D fan.

The steam and water cycle package includes supply and manufacture of piping systems, and structural steelwork offsite and onsite mechanical construction services.

**Professionalism ■ Integrity ■ Trust ■ Team Spirit**