

### The opportunities for Grangemouth:

- A CHP plant providing low carbon heat and electricity where demand is highest
- Reducing carbon intensity of the Grangemouth area by generating low carbon heat and power which can be supplied to existing heat users in the refinery and chemical cluster
- The potential to act as a catalyst for inward investment in Grangemouth
- Capital investment of £465 million
- 300 - 500 construction jobs
- 70 permanent jobs for Grangemouth
- Economic growth of £26 million per annum  
(a calculation of Gross Added Value undertaken by Economists Roger Tym and Partners)
- Education and training opportunities
- Contracting opportunities for local businesses



Forth Energy  
1 Prince of Wales Dock  
Leith EH6 7DX

Tel: 0131 555 8870  
Fax: 0131 555 8788  
Email: [renewables@forthenergy.co.uk](mailto:renewables@forthenergy.co.uk)



This document is  
available online at:  
[www.forthenergy.co.uk](http://www.forthenergy.co.uk)

The proposed wood fuelled Combined Heat and Power Plant can deliver reliable, responsible, renewable heat and electricity to the Falkirk Council area. **The plant will generate 100 megawatts of low carbon electricity, equivalent to 92% of the Falkirk Council area's needs and 200 megawatts of low carbon renewable heat, capable of supplying surrounding businesses as well as being sufficient to power one of the largest heat networks in the UK.** Additionally, the plant will offer an opportunity to **drive new inward investment** from businesses that use large amounts of energy for heating or cooling, **creating an economic growth hub.**



Grangemouth Renewable Energy Plant: Design Concept Source: Gordon Murray Architects

## Grangemouth - The Benefits

The town of Grangemouth is a key industrial centre and is at the heart of Scotland's petro-chemical industry. The surrounding industrial users require large amounts of energy for heating and cooling. Forth Energy's Combined Heat and Power Plant will make a significant contribution to the area's energy demands by generating 100 megawatts of low carbon electricity and 200 megawatts of heat, which can be supplied directly to surrounding businesses and will also provide the power for one of the largest heat networks in the UK, that can be extended into Grangemouth and Falkirk. **The plant will generate reliable, sustainable, renewable energy close to where it is needed, supporting carbon reduction in Grangemouth.** Forth Energy has designed and identified the cost of an extensive heat network, and is in active discussions with potential customers, with a view to agreeing the supply of heat from the plant.

The plant will bring a number of benefits to the Grangemouth area, including:

- The development of a low carbon heat network, able to supply residential, commercial, industrial and community uses, and capable of supplying Grangemouth town centre as it is redeveloped.
- Significant opportunities to supply electricity and heat to existing businesses with high heat or cooling demands, for example those in the refinery and chemical cluster. This will reduce their carbon emissions and consequently their costs under the Carbon Reduction Commitment tax.
- The potential for the plant to be a catalyst for inward investment, making use of the available sites and the potential to provide renewable low carbon heat.
- A significant capital investment of £465 million in the Grangemouth economy.
- An average of 300 jobs, peaking at 500 jobs during the construction period.
- 40 operational jobs and 30 fuel handling jobs.
- Economic growth in the Grangemouth and Falkirk area, as the plant will contribute £26 million per annum to the local economy. (a calculation of Gross Value Added undertaken by Economists Roger Tym and Partners)
- Education and training opportunities with linkages to universities and further education colleges.
- Contracting opportunities for local businesses.
- Highly efficient use of wood fuel to generate power and heat.

## Grangemouth - The Location

The plant's location at the Port of Grangemouth allows **sustainably sourced wood fuel to be delivered directly by ship, the lowest carbon means of transportation.** The fuel will be used to generate electricity and heat close to the industrial cluster and centre of Grangemouth. The proposed plant is to be located at the Port of Grangemouth and is bound by Central Dock Road and the Western Channel to the north and a railway line to the south. The site covers 18 hectares.



Source: Gordon Murray Architects