

The opportunities for Dundee:

- Low carbon heat network and electricity generated where demand is greatest
- Potential to supply heat to reduce the carbon footprint of the new waterfront developments
- Supply of low carbon energy to support the Scottish Government's vision for a renewable energy industry manufacturing hub at the Port of Dundee, identified in the National Renewables Infrastructure Plan Stage 2 report
- Opportunities to connect adjoining industrial heat users with significant heat or cooling loads
- Capital investment of £325 million
- 300-500 construction jobs
- 70 permanent jobs for Dundee
- 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



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The proposed wood fuelled Combined Heat and Power Plant can deliver reliable, responsible, renewable heat and electricity to the Dundee area. **The plant will generate 100 megawatts of low carbon electricity, equivalent to 86% of the Dundee Council area's needs and 30 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.**



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

Dundee - The Benefits

The City of Dundee has a vision to become a renewables hub, capitalising on its assets: available land; a skilled workforce; academic excellence; and its strategic position at the heart of the regional transport network. Forth Energy's Combined Heat and Power Plant will support this vision, generating 100 megawatts of low carbon electricity and sufficient low carbon heat to power one of the largest heat networks in the UK. **This will be able to meet the heating and cooling needs of existing industries, the waterfront regeneration area and the growing renewables industry.** 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 heating and cooling from the plant.

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

- Generation of low carbon electricity and the energy to supply a low carbon heat network in the Dundee area, suitable for connecting residential, commercial, industrial and community uses.
- Potential to reduce the carbon footprint of the new waterfront developments, through the supply of low carbon renewable heat.
- Low carbon heat that can be used by a renewable energy industry manufacturing hub at the Port of Dundee, identified as a new opportunity site in the Scottish Government's National Renewables Infrastructure Plan Stage 2 report.
- Opportunities to connect adjoining industrial users with significant heat or cooling loads to the proposed heat network, reducing their carbon emissions and consequently their costs under the Carbon Reduction Commitment tax.
- A significant capital investment of £325 million to the Dundee 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 Dundee 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.

Dundee - The Location

The plant's location at the Port of Dundee allows **sustainably sourced wood fuel to be delivered directly by ship, the lowest carbon means of transportation.** The fuel will be used to generate energy close to the centre of Dundee where demand is greatest. The proposed plant is to be located at King George V Wharf at the Port of Dundee. The site covers just under 6 hectares.



Source: Gordon Murray Architects