

LOCAL HEAT SCHEME WHICH IS HELPING TO TACKLE CLIMATE CHANGE AND FUEL POVERTY

August 2018

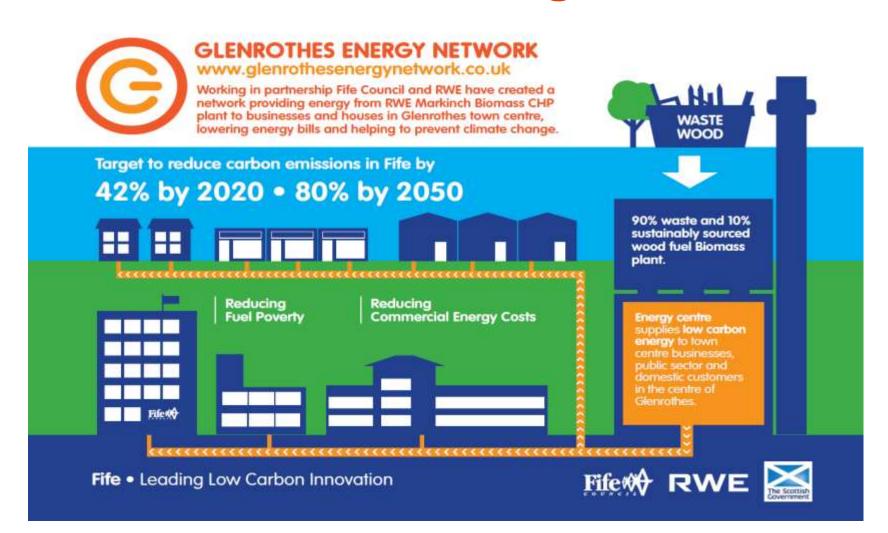
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What is district heating?











Why Do It?

 Statutory duty to reduce reliance on fossil fuels and migrate to sustainable heat sources.









Why Do It?

- Climate Change (Scotland) Act 2009 &
 Scottish Government Climate Change Plan for
 Scotland (2017-2032) target 80% of
 domestic heat from low carbon sources by
 2032 and the reduction of greenhouse gas
 emissions of 66% by 2032.
- Fife Council target of reducing carbon emissions by 42% by 2020.









GEN - Scheme Details

- 6.8 km of pipe
- 7 customer sites including Fife House Complex plus 45 Council homes
- Annual heat demand 8650 MWh. Potential remains for expansion to 22,000 MWh.
- Carbon savings 2087 tonnes pa
- Provision for expansion to the south of the town centre remains.

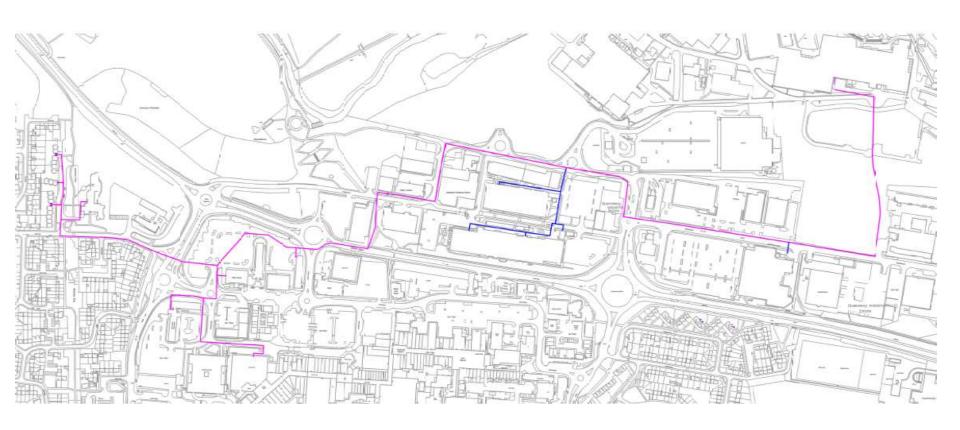








Scheme Extents & Route











- Tullis Russell enters administration April 2015
- 2016 Feasibility work started on DH
- Grant awarded March 2017
- Detailed design, tendered via SCAPE framework – September 2017.
 - Scheme total costs £33.8 m
 - Costs unaffordable









- 'Value Engineering' then retender December 2017.
 - Scheme total costs £29.7 m (Council shortfall £5.9 m)
- Costs still too high
 - Further reduction of scope undertaken









- Reduced scheme tendered Feb 2018
 - Scheme total costs £23.911m
 - RWE contribution £13.573
 - Council Funding
 - LCITP £8.559 m
 - FC borrowing £1.546 m
 - HRA capital £0.233m
- Fife Council approval 26 March 2018
 - Tender to internal approval circa 6 months









- Heat Network Contract agreement (April to June 18) FC + Contractor
- Energy Centre site start April 18
 - Building fit out & testing Aug/Oct 18
- Heat Network Contractor mobilisation 15
 June 18
- Roadworks and excavations start 2 July
 - Commissioning initial section 8 Dec 18
 - Heat on to Fife House & Rothesay House 31 Jan 19









Installation

- 7 Civils teams working across Glenrothes
- 5 Sections of network currently being installed simultaneously
- Traffic management planning and public engagement undertaken
- 25% faster installation than any other UK district heating project to date













Energy Centre Site

Energy Centre Frame











Network Pipes Entering Energy Centre





















Typical Heat Interface Unit



Typical Substation









Communications plan

- Regular press releases to local media
- Radio advertising on Kingdom FM
- Members & managers briefing
- Intranet articles (inc Fife House car parks), posters, emails and stand at Fife House









Communications plan

- Meetings with key businesses
- Regular social media posts on 'Our Glenrothes' Facebook page
- News items on Fifedirect and Invest in Fife websites
- Exhibition stand at community events and Kingdom Shopping Centre









Challenges Faced

- Time
 - Procurement
 - Agreeing servitudes
 - Legal Contracts
 - Council Processes
- Budget
 - Financial Modelling
 - Installation costs
- Resources
- Other









Opportunities

- Local employment and investment in the area
- Local Authority led project has time and quality advantages
- In house expertise
- Local Knowledge









Benefits

- Reduced energy costs
- Reduced maintenance costs
- Reduced carbon emissions
- Energy security
- Investment in local economy
- Aid economic regeneration









Carbon Savings

- Scheme Total 2087 tonnes
- Fife House complex + Rothes Halls
 - 680 tonnes pa
 - Almost 1% of Fife Council total carbon footprint for 2016/17 – 83,414 tonnes
 - One of the biggest carbon savings projects ever undertaken by Fife Council, along with ORP & Light Fife Green









Next Steps

- Construct & commission network and energy centre
- Finalise customer packages (FC & RWE)
- Operational arrangements
- Heat sales (FC & RWE)
- Heat Metering and Billing Contract is Live
- Future expansion?







Potential Scheme











Summary

- Major investment in Glenrothes £23.92 m
- Capitalise on existing assets and funding
- Very strong partnership between FC, RWE and Scottish Government
- Communication plans implemented
- Significant carbon savings
- Expansion potential remains









Recommendations

- Benefits with a Local Authority led delivery
- Start as early as possible with procurement and production of legal documentation
- Consider if value can be attributed to non financial benefits
- Retain technical resource on employers team









Questions?









Metering and Billing Framework

- https://khub.net/group/procurement-forheat-metering-billing-equipment-andservices
- Contact Lee Parry (<u>Lee.Parry@fife.gov.uk</u>)