



GIS Mapping Analyst

Salary: Dependent on experience+ Up to 20% performance bonus

Benefits: Up to 7% matched Pension, private medical insurance, and travel insurance

Hours/days per week: 37.5 hours/5 days

Place of work: Home working with occasional travel as required

Reports to: Technical Director

About us

Heat in buildings accounts for more than a third of the UK's total carbon emissions, with more than two million businesses and 24 million homes burning fossil fuels for heating.

To achieve Britain's climate goals, there is an urgent need for a national shift from fossil fuel heating to low-carbon alternatives—and heat networks offer a proven, scalable option.

1Energy is the UK's leading developer of low-carbon, city-heat-networks. Our mission is to decarbonise heat in cities and towns across the UK, accelerating the transition to net zero.

Our heat networks provide the lowest cost, simplest and fastest route to decarbonising heat at scale and a long-term foundation for healthier, greener cities.

In just over three years, 1Energy has grown from a start-up to having over £700m of heat networks in development, with ambitions to deploy £1bn within the next eight years into building new networks.

1Energy is backed by a dedicated fund established by Asper Investment Management, which supports the development, construction and operation of our networks.

Our team are leaders in the heat network industry—having delivered and operated more than 100 district heating projects over the past 15 years.



About the job

We are seeking a detail-oriented and collaborative GIS Mapping Analyst to support the planning and development of our district heat networks. This role is pivotal in identifying anchor customers, planning our networks, and working closely with the sales and technical teams to deliver sustainable and cost-effective heat solutions.

What you'll do

Customer Analysis:

- Use GIS tools to identify and prioritise high-demand buildings (e.g., hospitals, universities, council buildings) as potential anchor customers for heat network development and mapping these.

Initial Network Routing:

- Plan and assess efficient pipe routes with spatial analysis, factoring in terrain, infrastructure, and land ownership. Gather and analyse data from sources such as the Land Registry, Ordnance Survey, and the Environment Agency.

Sales Team Coordination:

- Collaborate with the sales team to align GIS insights with customer engagement strategies. Provide maps, data layers, and spatial analysis outputs to support outreach and feasibility discussions.

Data Management:

- Collect, clean, and manage geospatial datasets including potential customer buildings, land use, and district heating network routes.

Scenario Modelling:

- Support the simulation of network configurations and expansion scenarios using GIS-based modelling tools.

Visual Communication:

- Produce clear, visually engaging maps and reports for use with internal teams, potential customers and key stakeholders.

As-built Asset Mapping:

- Contribute to the creation and maintenance of heat network infrastructure map layers for long-term asset management.



What you'll need

- Bachelor's degree in Geography, Environmental Science, Urban Planning, Computer Science, Engineering, or a related field.
- Proficiency in GIS software (e.g., ArcGIS Pro, QGIS), note that QGIS is utilised in 1Energy
- Experience with spatial analysis and network modelling
- Strong map production skills with excellent attention to detail to ensure all outputs are to the highest standard
- Strong communication and collaboration skills
- Ability to work on own initiative, organising workloads to meet project deadlines

Highly Desirable

- Experience in the district heating sector
- Knowledge of automation in GIS tools (e.g. Python-based scripting or using the model designer in QGIS)
- Familiarity with best practice around storing geospatial data (e.g. using PostgreSQL databases with a PostGIS extension, or other similar relational databases)

1Energy's team is comprised of head office remote and on-site roles, with our team members based across the UK; for this role, however, occasional travel will be required to meet with customers, stakeholders and colleagues.

All applicants must be eligible to legally work in the UK.

Work with us

If this sounds like you, we'd love to hear from you. Please send us an email with your CV to: info@1energy.uk