

HEAT NETWORKS PARTNERSHIP SOLUTIONS

Working with public organisations and private developers to accelerate the delivery of decarbonised heat networks



For a better world of energy

PARTNERSHIPS WITH SSE

We co-invest, deliver and operate heat networks together with private developers and public sector organisations, such as local authorities, hospitals and universities.

This means forming long term partnerships to develop, design, build, operate and look after customers. Partnerships bring the stability that reduces risk and provides the desired control to our partners to bring about long-lasting customer benefits.

We can offer a full delivery approach, jointly procure services as part of a partnership, or solely invest in heat networks.

FREE AND NON-COMMITTAL PROJECT ASSESSMENT

We know you need to assess all the commercial structure options open to you so we are offering high level project assessments at feasibility stage to show you what SSE is able to offer as project partner.

The assessment will provide you with an investor and operator's perspective on your project and provide SSE's view of its investment strength, the level of investment we could contribute and the commercial set up that we would propose to deliver your project.

Just send an email to distributedenergy@sse.com and we'll take it from there.

Jointly delivering heat networks with SSE means:

Investment

We will jointly invest up to 100% of project capital expenditure using our balance sheet strength whilst providing long-term project involvement to ensure the heat network performs.

Resource and experience

We will provide in-house project and technical support from people who have hands-on experience of delivering heat networks end-to-end.

Lower risk

We will share risk, or take on specific risks, to provide you with the comfort you need to progress with your scheme.

Greater control

We will provide you with the control you need, for example in setting tariffs or how to reinvest project returns.

WHY PARTNER WITH US?

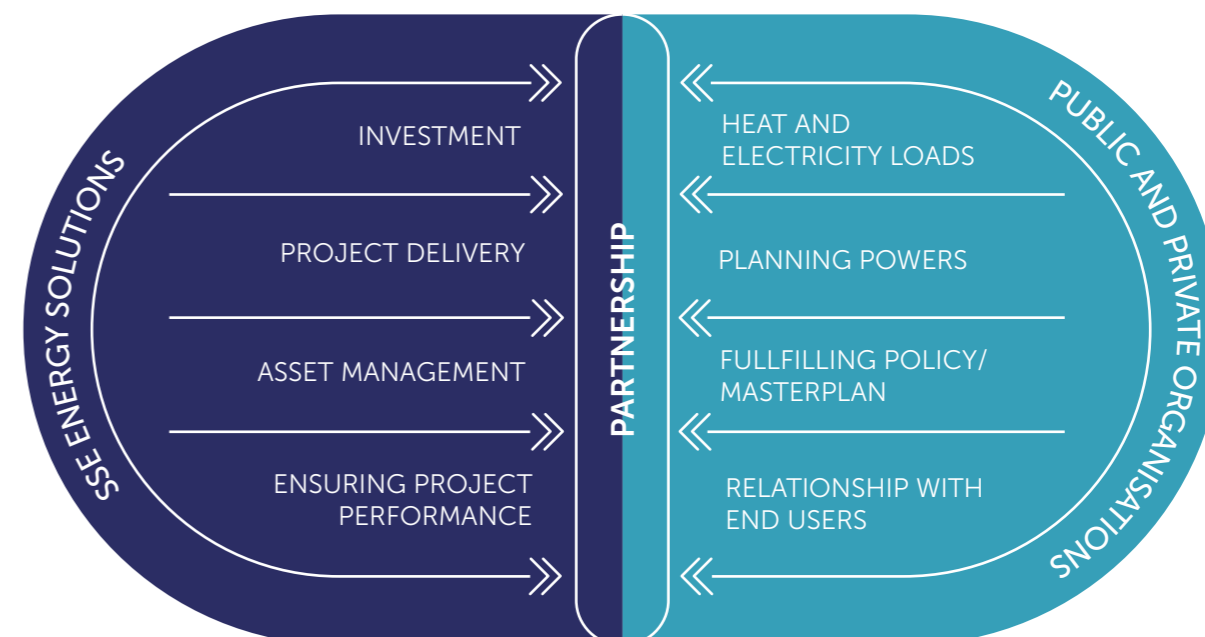
With experience spanning over a decade, we will work with you to help solve the challenge of decarbonising heat and accelerate your journey to net zero.

With 18 heat network schemes in operation and more than 10,000 customers connected, SSE offers:

- In-house due diligence and experience in making the most appropriate investment decisions for differing circumstances
- Clean technology solutions with heat pump projects already in operation at Wandsworth Riverside and Riverlight
- Working in partnership at every stage of the project, we provide engineering support to provide an optimised technical design to maximise the network's efficiency and reduce capital and running costs.
- Market leading customer service ensuring our customers receive responsive, reliable and accessible high standards of care, with a particular focus on vulnerable customers.
- Forward planning for smart cities to ensure that delivered heat networks are capable of connecting to larger integrated digital and energy solutions
- Capability to optimise electricity generation, storage and usage opportunities alongside the heat network
- Experience in navigating the changing regulatory landscape, with the ability and the experience to influence and adapt to future regulatory change.

How a public/private partnership works

Partnerships bring together the skills and experience from both parties into a single and effective delivery mechanism.



HOW WE MANAGE YOUR PROJECT

At SSE Energy Solutions, we consider ourselves an educated investor, with experience of investing in a wide range of energy projects.

LIFETIME OF THE PROJECT

We like to get involved at the early feasibility stage and remain involved for the lifetime of the project. This ensures project-long performance, reliability and the best possible customer experience.

Feasibility

We will undertake a free high level assessment of your project and will carry out our own in-house due diligence to provide thorough but speedy investment decisions.

Finance

We invest as a long term partner and have experience of working with a number of contractual structures. Full resource support is provided for grant applications (including HNIP).

Design

We act as Principal Designer, providing innovative and flexible network design from the concept solution through to construction stage design drawings, ready for procurement and start on site.

Build

We act as Principal Contractor under CDM, project managing all works on site, procurement of materials, and managing local specialist sub-contractors to deliver best value whilst ensuring a robust and high quality installation.

Commissioning

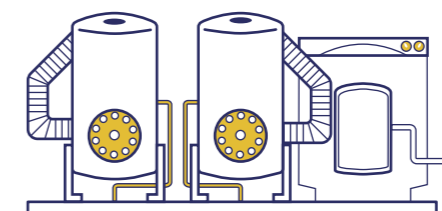
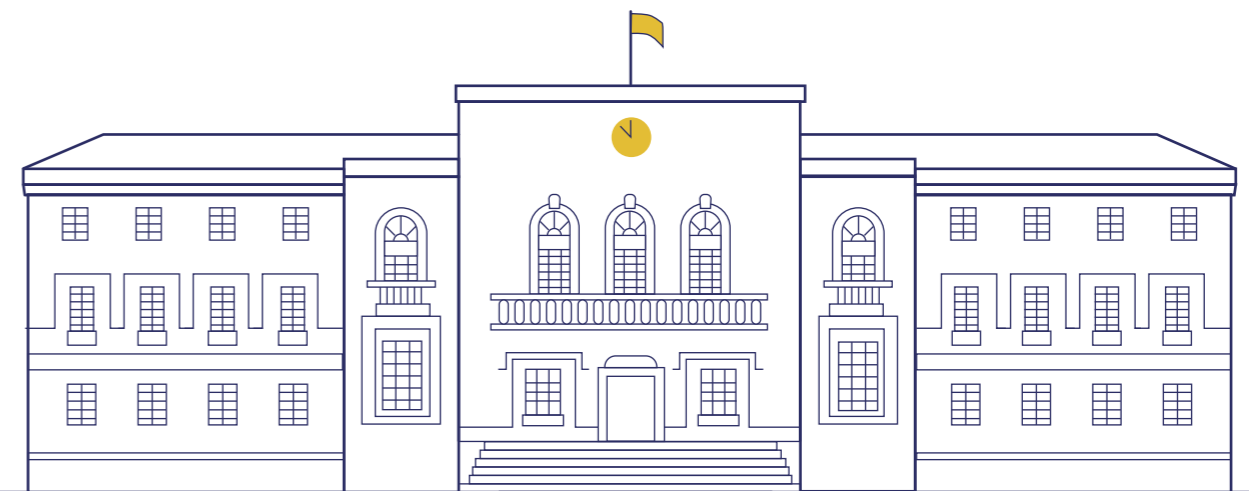
Our commissioning managers will quality review the installation throughout the build phases to pick up any defects, commission the system as a whole, including balancing the system ensuring it meets design set-points.

Operation and maintenance

We undertake asset management, operations and maintenance services in-house to best industry standards, adopting where appropriate.

Customer service and billing

As a utility, we have longstanding experience in looking after our customers and it is no different for heat networks. We are founder members of the Heat Trust and will continue to make our customers happy.





OUR PARTNERSHIP CASE STUDIES

With experience spanning over a decade we have a track record in simplifying design, optimising system performance and increasing reliability.

With 18 operational heat networks, including two hospital energy centres, our networks to date have a generation capacity of 5MW from heat pumps, 25MW from Chillers, 12MWe from combined heat and power and 90MW from boilers.

Residential customers benefitting from current heat networks number over 10,000 and this will grow to 21,000 at full build of existing schemes, at which time there will also be 200,000m² of commercial space.

GLASGOW'S WYNDFORD ESTATE



Glasgow's Wyndford Estate is home to one of the UK's largest retrofit district heating schemes. It has been praised by politicians, won the 2013 ADE 'Campus and Community Award' and signals the way forward for similar schemes in the future.

We won Cube Housing Association's contract to design, build, own and operate the district heating scheme. Part of a £27 million redevelopment, Cube wanted to tackle fuel poverty and improve their residents' comfort and quality of life. It was a challenging project. In less than 12 months, a substantial 1.2MWe Combined Heat and Power facility was built on site, with almost 3km of insulated pipes providing on-demand heating and hot water to more than 1800 homes.

WANDSWORTH RIVERSIDE



Wandsworth Riverside Quarter, one of our innovative landmark district heating schemes, comprises 550 residential units together which consists of six blocks and a further 2,973 m² of commercial space.

The technical solution identified for the scheme was a relatively new and ambitious approach for a heat and cooling network. The site uses open loop ground source heat pumps, drawing water from a series of four "cold" and four "warm" wells up to 100m deep under the site. These run in combination with gas boilers and gas CHP to provide low carbon heat, hot water, cooling and electricity to this multi-phase development.

SMART DISTRIBUTED ENERGY INFRASTRUCTURE SOLUTIONS

Designed to meet local energy needs and drive Net Zero

SSE Energy Solutions is part of SSE plc, a UK based FTSE 100 company with 75 years' experience operating in the fast-changing energy industry.

SSE Energy Solutions plays a major part in the emerging consumer-led energy system, and provides key services to enable users to benefit from new ways to optimise and manage their low carbon energy use.

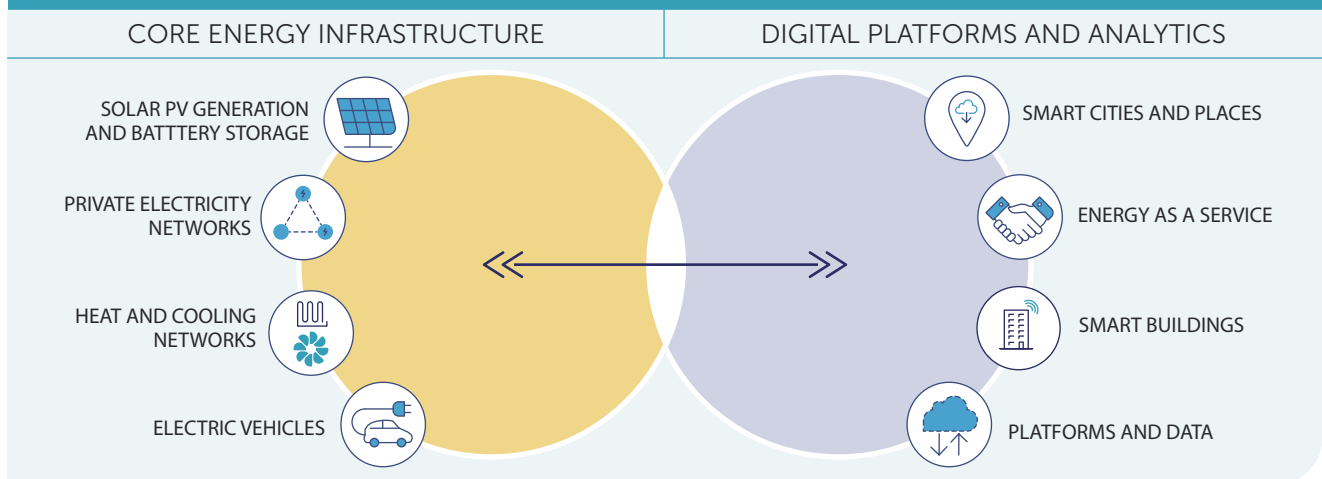
Our Distributed Energy business teams adopt a whole system approach by investing in, building and connecting your localised, flexible energy assets to accelerate your path to net zero and create a more resilient energy system for the long-term.

Right now, your decision to pick SSE Energy Solutions, part of an established renewable energy company investing in all our futures, will be the right choice for you and for our environment.

Our energy solutions include:

- Electric vehicle infrastructure for public transportation and vehicle fleets
- Local electricity infrastructure including building, owning and adopting private HV networks
- Heating and cooling networks for residential, commercial and industrial consumers
- Local energy generation, including funded offsite/ onsite solar PV
- Energy storage solutions, including battery storage
- Optimising building energy consumption and use
- Data platform services to support smart buildings, places and cities
- SSE Enhance, our aggregation and trading platform for small energy assets
- A growing suite of green energy supply solutions, including corporate power purchase agreements.

WHOLE SYSTEM THINKING – ACCELERATING THE JOURNEY TO NET ZERO



FOR A BETTER WORLD OF ENERGY

Get in touch with our team to find out how we can help you

distributedenergy@sse.com || 0345 070 2019 || sseenergysolutions.co.uk

SSE Energy Solutions is a trading name of: SSE Energy Supply Limited Registered in England and Wales number 03757502; SSE Heat Networks Limited Registered in Scotland No. SC303682; SSE Utility Solutions Limited Registered in England & Wales No 06894120; TESGL Limited Registered in England & Wales No.08462158. All members of the SSE Group. The Registered Offices are: SSE Energy Supply Limited and SSE Utility Solutions Limited, No.1 Forbury Place 43 Forbury Road Reading RG1 3JH; SSE Heat Networks Limited, Inveralmond House 200 Dunkeld Road Perth PH1 3AQ; TESGL Limited, Ocean Court Caspian Road Atlantic Street Altrincham WA14 5HH

