



# Southampton District Energy Scheme

**The Southampton District Energy Scheme (SDES) is a pioneering project that has led the way in the delivery of sustainable supplies of heat, chilled water and power in the UK.**

For over 25 years SDES has pushed the boundaries of district energy and tri-generation and continues to expand into new areas.

The scheme now encompasses over 45 energy users in the public and private sectors. The scheme is operated by EQUANS working in partnership with Southampton City Council – under the name of Southampton Geothermal Heating Company Ltd.

The Southampton District Energy scheme is a Tri-generation system saving over 11,000 tonnes of carbon dioxide emissions per annum. It utilises heat from a geothermal aquifer 1.7km below ground, supplemented by large scale CHP and conventional boilers. It also incorporates a district cooling system.

Users include private, public and residential buildings.

## Key facts and figures:

- ☒ 11,000 tonnes of CO2 saved per annum
- ☒ Over 40,000 MWh of heat per annum
- ☒ Serves buildings within 2km radius of the energy centre
- ☒ 1C temperature loss per km of pipe
- ☒ 26,000 MWh of electricity from the CHP plant
- ☒ 80c/50c hot water ow/ return temperatures
- ☒ More than 7,000 MWh of chilled water
- ☒ 14km of insulated distribution pipe
- ☒ 6 EV charging stations installed
- ☒ 50% of engineer's vans are now EV

