MAYOR OF LONDON

LOCAL ENERGY ACCELERATOR

ROYAL BOROUGH OF GREENWICH

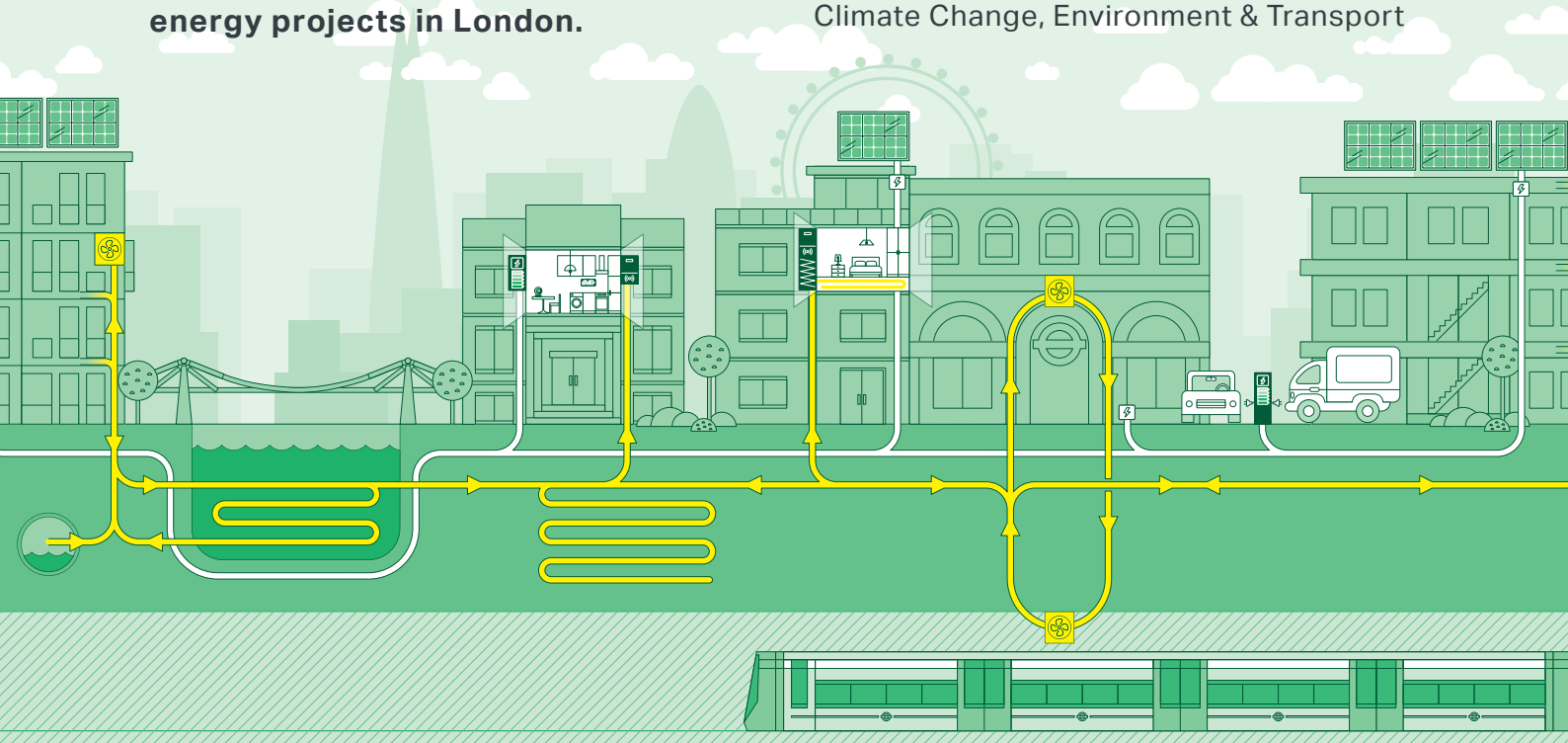
Supporting the council in creating a greener borough

WHAT IS LEA?

The Local Energy Accelerator (LEA) supports the development of clean and flexible local energy projects in London to transform the way energy is generated, supplied, and used in buildings. LEA is a £6m programme co-funded by the Mayor of London and the European Regional Development Fund (ERDF). It is an extension to the Decentralised Energy Enabling Project (DEEP) which supported 44 decentralised energy projects in London.

"The Royal Borough of Greenwich is on a path towards decarbonisation and is working to reduce energy emissions and become carbon neutral by 2030. As part of our EU Sharing Cities programme, we have installed a ground-breaking water source heat pump scheme at a housing estate to provide locally generated, low carbon energy to homes in the borough. Further schemes are now being implemented on other estates in Royal Greenwich. The Local Energy Accelerator has been critical to progressing the delivery of this scheme and driving forward our green ambitions."

Councillor Averil Lekau,
Deputy Leader & Cabinet Member
Climate Change, Environment & Transport



GREATER LONDON AUTHORITY

European Union
European Regional Development Fund

The Royal Borough of Greenwich has benefited from the support of the Mayor of London's Local Energy Accelerator, and formerly the Decentralised Energy Enabling Project, in developing and delivering a series of low carbon energy projects across the borough.

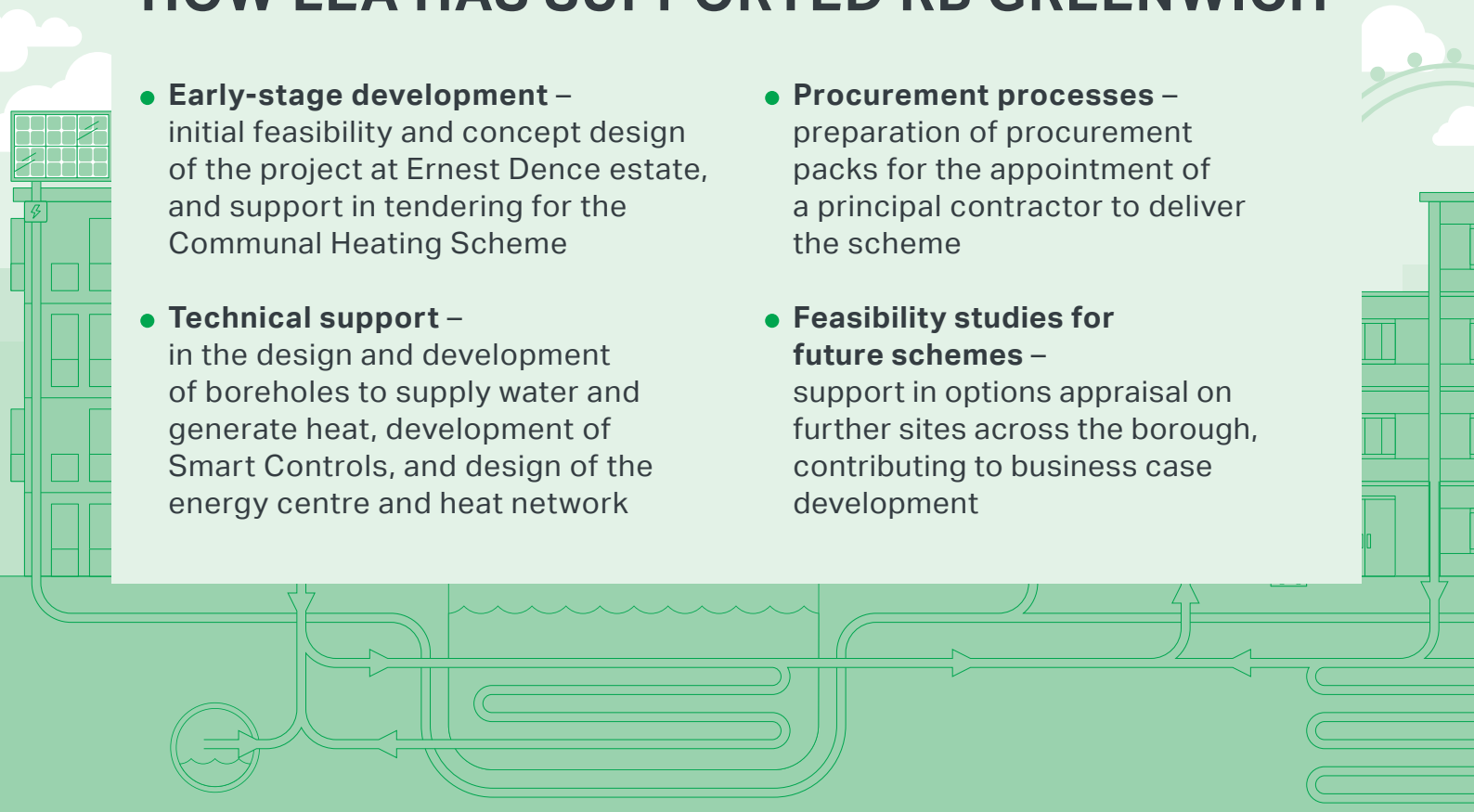
At the Ernest Dence estate, an innovative water source heat pump project has been developed, which is supplying heat and hot water to 95 homes and a community centre. The project will provide 0.3MW of renewable heat capacity and save 4,000 tonnes of carbon over its lifetime.

Following the success of this project, the local authority is now developing further sites across the borough for low carbon heat pumps, with four schemes under construction and two more planned. The overall programme will provide 0.6MW of renewable heat capacity and save 18,000 tonnes of carbon over the lifetime of the projects.

LEA has also supported the local authority to undertake a techno-economic feasibility study into the establishment of a decentralised energy network across Greenwich town centre.

HOW LEA HAS SUPPORTED RB GREENWICH

- **Early-stage development** – initial feasibility and concept design of the project at Ernest Dence estate, and support in tendering for the Communal Heating Scheme
- **Technical support** – in the design and development of boreholes to supply water and generate heat, development of Smart Controls, and design of the energy centre and heat network
- **Procurement processes** – preparation of procurement packs for the appointment of a principal contractor to deliver the scheme
- **Feasibility studies for future schemes** – support in options appraisal on further sites across the borough, contributing to business case development



ERNEST DENCE ESTATE

Drilling of the borehole which provides water for the heat pump

The first of the supported projects delivered in Greenwich, the water source heat pump project works by using low temperature heat from water deep below the ground, and then increasing the temperature for use in heating and hot water in buildings.

The scheme faced certain challenges, which the local authority overcame with support from the programme. These included securing planning consent for a commercially-sized water source heat pump, and ensuring all contractors had specialist knowledge to enable successful delivery of the project.

4,000 tonnes CO_2e
saved over its lifetime

Energy supplied to
95 homes

0.3MW
of renewable heat capacity

The Local Energy Accelerator supports low carbon decentralised energy in London, with eligible organisations able to benefit from fully funded revenue support providing technical, commercial, financial, and project management services. Find out how you can benefit by contacting **lea@london.gov.uk**