

Energy & Sustainability



Who we are

STANTEC IS A TOP TIER GLOBAL CONSULTANCY. WE HAVE BEEN WORKING WITH OUR CLIENTS AND COMMUNITIES IN THE UK FOR OVER 150 YEARS.

We have consistently been at the forefront of planning, design and delivery of infrastructure and development in the UK.

With offices across the UK, Stantec has a strong reputation for its work with public and private sector clients on a diverse range of high-profile infrastructure and development projects.



Stantec in the UK

1700

INFRASTRUCTURE, BUILDINGS,
WATER & ENERGY

40

PLANNING SERVICES

250

ENVIRONMENT &
SUSTAINABILITY SERVICES

200

CIVIL ENGINEERING

160

TRANSPORT PLANNING

95

BUILDING STRUCTURES
& UTILITY SERVICES

How can we help

THE SUSTAINABILITY OF THE BUILT ENVIRONMENT IS OF MAJOR IMPORTANCE TO A WIDE RANGE OF STAKEHOLDERS INCLUDING POLICY MAKERS, DEVELOPERS, AND THE PUBLIC, NOT JUST FROM AN ENVIRONMENTAL PERSPECTIVE, BUT ALSO AN ECONOMIC AND SOCIAL STANDPOINT.

The inclusion of metrics such as carbon reduction, energy efficiency and BREEAM within policies and company-based CSR has resulted in the need for early engagement with sustainability professionals to help embed solutions within development.

By collaborating across our teams, opportunities to embed sustainability can be recognised at each development stage.

We work closely with our mechanical and electrical engineers as well as energy modellers, ecologists and other environmental disciplines to achieve the desired outcomes for our clients.



BREEAM AND HOME QUALITY MARK

Qualified BREEAM Assessors, BREEAM Accredited Professionals and HQM Assessors, we provide consultancy and assessment services from pre-planning all the way through to practical completion.

SUSTAINABILITY

Extensive experience in providing sustainability statements which address a wide range of sustainability issues including energy, water, waste, materials and transport typically supporting large scale development proposals.

ENERGY

Our energy team comprises qualified energy modellers, M&E professionals, Certified Passivhaus Consultants and Chartered Geographers. This extensive range of experience and knowledge, from strategic energy masterplanning to individual component specification, allows us to provide tailored solutions for our clients. Our work includes energy strategies, thermal modelling, renewable energy feasibility studies and strategic power and utilities capacity studies.

Project Experience



SYDENHAM HILL

CLIENT: City of London
LOCATION: London

A sustainability statement was required to support a full planning application in London Borough of Lewisham (LBL) for the redevelopment of the existing Sydenham Hill estate to provide social housing.

Typically, a sustainability statement is structured using the local planning policy; however, LBL does not specify a structure. Therefore, to produce a report which was logically structured and covered the different policy requirements, we employed the use of the Home Quality Mark (HQM) assessment method.

Using HQM framework it was possible to demonstrate that the proposed development would provide an opportunity for lower cost living for residents, lower the environmental footprint of the proposed development and increase resident's satisfaction with the homes.

We have since been asked to undertake a formal pre-assessment for HQM as the client felt this will demonstrate to stakeholders the project's high quality and going above and beyond to provide sustainable housing.

UNIVERSITY OF SURREY & BLACKWELL PARK

CLIENT: University of Surrey & Blackwell Park Limited
LOCATION: London

The Blackwell Park development site is situated on University-owned land adjacent to the Surrey Research Park. It is allocated for a mixed-use development including approximately 1,800 homes, 35,000 sqm of employment, retail, a new local centre, a primary school and a secondary school.

This Study provided an evidence-based assessment of low carbon design and technology opportunities for Blackwell Park, with various definitions of "zero carbon" development considered. This will steer the long-term sustainability of the project and help to support a future Outline Planning Application. Energy-related research opportunities for future collaboration with the University of Surrey were also identified.



PLUMSTEAD LIBRARY

CLIENT: Osbourne
LOCATION: London

The Plumstead Library, Plumstead, London project involved the partial demolition, extension and refurbishment of an existing listed library to include a new gym, café, dance studios and community facilities – all of which required BREEAM certification.

Due to the complex nature of the project identifying an appropriate BREEAM scheme was the first major issue, and we advocated the use of BREEAM bespoke which would provide a tailored solution for the project.

The project is currently awaiting approval and certification from the BRE but has been completed and is operational.



Project Credit:
Hawkins Brown Architect



MOSAIC PLACE, PURLEY, CROYDON

CLIENT: Thornsett Group & Purley Baptist Church
LOCATION: Croydon

This project was for a full planning application for the erection of a 3 to 17 storey development comprising 114 apartments, community and religious space and a retail unit; and a 3 to 8 storey development comprising 106 apartments on two separate sites.

Stantec undertook a detailed review of an outdated energy strategy to define a way that this proposal could align with new planning policy cost-effectively and pragmatically. This included a detailed review of fabric energy efficiency targets (U-values, airtightness, etc.), a revised heating strategy (switch to an electric heat pump system rather than gas CHP) and an updated renewables strategy (roof-mounted PV).

The assessment also included an electrical grid loading assessment based on the revised strategy.

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Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind.

We care about the communities we serve—because they're our communities too. This allows us to assess what's needed and connect our expertise, to appreciate nuances and envision what's never been considered, to bring together diverse perspectives so we can collaborate toward a shared success.

We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.

Stantec trades on the TSX and the NYSE under the symbol STN. Visit us at stantec.com or find us on social media.

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