

**South Caldecotte**, Bletchley, Milton Keynes**Client:** Hampton Brook**Project Consultant:** Knight Webb**The Development:** A strategic distribution park comprising of 10 new industrial units with a total GIA of 2,331,108ft<sup>2</sup>.**Start Date:** June 2019**Completion:** Ongoing**Our Key Values**

- Saved the client **£4,155,645.87** on WPD's non-contestable cost by building a more robust load demand model, factoring resilience and real time optimisation, to limit the extent of network reinforcement. Client had initially accepted WPD's offer of £4,343,857.99 via a 3<sup>rd</sup> party consultant but upon our smart and optimised engineering demand and forecast evaluation, and a new submission of our approach to the DNO, coupled with our strong relationship management with the DNO, the new non-contestable cost was £188,212.12, which has since been accepted and paid for by the client in August 2019.
- Design, installation and management of a full turnkey solution (end to end) for the client, involving DNO/IDNO HV installations, private HV/LV network, new gas mains, new gas services, electricity and gas metering, and gas outlet connections.
- Route proving for the HV electricity connection into the site, over a route of approximately 4.5km along busy Milton Keynes roads.
- Sufficiently Complex Job (SCJ) Reinforcement study for the site's gas main and services. Managed the SCJ with SGN to secure nil customer contribution to network reinforcement cost "Band A" of **£5,286,950**. Agreed terms and conditions with the network to avoid further reinforcement cost contribution of **£168,000**.
- Managing complex WPD and SGN relationships on behalf of the end client, to ensure client's project is delivered without any issues.
- Offered most competitive price among all the ICPs that tendered for the project.
- Working within client's expectations on service delivery.

**Our Solution**

Design, installation and project management of:

- 1no 33kV HV primary substation on site, with a total load of 14.8MVA, to include approximately 4.5km offsite excavation on busy Milton Keynes roads, to be owned and maintained by an IDNO
- 6nos 11kV HV metered (fiscal) secondary substations, to supply 6nos units, to be owned and maintained by an IDNO
- 2nos 11kV LV metered (fiscal) secondary substations, to supply 4nos units, to be owned and maintained by an IDNO
- Private HV and LV network consisting of one 11kV HV Switchboard and three 1MVA transformers, HV and LV cabling up to terminations in customers LV panels, complete with combined HV/LV earthing design and installation for a cold site.
- MP gas mains and services with total load of 12MW
- Coordination of multidisciplinary engineering teams and personnel.
- Utility wayleave – negotiation and management