

NEW NUCLEAR POWER STATION PROJECT



The first new nuclear power station to be built in the UK in over 20 years; will provide low-carbon electricity for around 6 million homes. The electricity generated by its two EPR reactors will offset 9 million tonnes of carbon dioxide emissions a year. The £23 billion, 3,200 MW power station is the largest construction project in Europe.



As a key tier one contractor, EnerMech is providing specialist engineering support services across both nuclear islands 1 and 2. By delivering crane and lifting equipment certification assurance services, the team ensure regulatory standards and requirements are met and safe lifting operations on the nuclear construction site are maintained.

Date: 2019 - ongoing

Deep technical knowledge in a highly regulated nuclear environment

EnerMech's Bridgewater-based specialist team, deliver the expert management, co-ordination and assurance of all lifting operations associated with the nuclear build project. The site has the world's largest lattice boom crane, which is complemented by over 60 tower cranes and mobile crawler cranes that jointly carry out over 50,000 lifts per month, in addition to 100 complex AIL's (Abnormal Indivisible Loads) to be undertaken over the lifetime of the project. Throughout this project EnerMech has played a key role in reducing risk of accidents, unnecessary delays or downtime and in ensuring safe lifting operations at all times.

We have also been extensively involved in the crane and lifting certification assurance of the world largest crane, which completed the biggest ever lift on site in 2020. This super crane lifted a total weight of 575 tonnes, to install the first of three prefabricated steel rings which form the reinforced cylinder around the nuclear reactor.

Timed to take advantage of lighter winds during a four-day operation, the super crane lifted the 17m tall, 47m diameter ring out of a bunker and extended out to 160m to put the ring in place during night operations.

POWER & LOLER
Accredited to the legal & technical requirements to PUWER & LOLER regulations

WORLD'S LARGEST CRANE
crane and lifting certification assurance on the biggest ever lift

50,000 LIFTS
crane and lifting certification assurance on 50,000 lifts a month

Project experience and operational excellence

Previous experience - With over 100 years of combined experience, EnerMech's leadership team has extensive nuclear power plant experience with the following clients:

- DRSL, UK
- Bradwell Nuclear Power Station, UK
- Watts Bar Unit 2, USA
- Vogtle 3 and 4, USA
- VC Summer 2 and 3 with expertise in the ASME Code, USA
- ASCO Units 1 and 2 and Vandellos, Spain
- Ringhals, Sweden
- Krsko, Slovenia
- Shin Kori and Hanbit, South Korea
- Doel and Tihange, Belgium

Operational excellence - meeting the requirement for operational performance to the most exacting safety, technical and environmental standards

