

## Peaking Systems

**Client:** various

**Location:** UK-wide

ITPenergised has provided technical and environmental support on a number of proposed electricity storage and peaking stations in the UK, on behalf of several developers. Projects have included gas-fired electricity peaking stations, and battery storage facilities.

### Our Role:

Typical technical and environmental requirements to support a planning application for a storage or peaking plant include:

- **Noise assessment**
- **Air quality assessment**
- **Ecology survey and advice**
- **Hydrology/drainage advice**
- **Ground conditions/contaminated land advice**
- **Visual impact assessment (in some cases)**

Our project experience has included a number of projects in sensitive environmental locations, including Air Quality Management Areas, close to protected habitats, sensitive flood risk areas and/or close to residential areas. Projects have included cumulative effects.

We have further supported our clients through MCPD permitting.

### Example Projects

The team has significant experience of development projects across Scotland, England and Wales. Examples are provided below.

#### Gas fired peaking plant, Haydock

A gas fired peaking plant development, comprising 14 gas reciprocating engines and associated infrastructure (providing approximately 21MWe). We undertook consultations with St Helens Council to confirm requirements for environmental studies to support the application, and completed noise, air quality and ecology assessments. Consent was granted and we continued to support the client on discharge of conditions relating to ground conditions/ contaminated land, noise, and ecological mitigation works.

#### Gas fired peaking plant, Scunthorpe

The development comprised the demolition of existing buildings, and construction of a new building to house 9 gas reciprocating engines and generators. We engaged with North Lincolnshire Council and completed noise, air quality and contaminated land assessments, and an assessment of the potential for roosting bats in the existing building. The project was ultimately consented.

#### Feasibility Review

We undertook a high-level review of a portfolio of 12 sites in England, on behalf of a developer seeking to identify suitable sites to bring forward for peaking plant development.

