

Energy Storage – Transport Briefing Document

The Details of the largest size, type and frequency of vehicles to visit the site both during and post construction, and all on-site vehicular areas. This development does not require equipment to be delivered by abnormal loads (vehicles over 16.5m length).

Pre-Construction Activities

Foundations, Site levelling / clearance

In the pre-constructing phase, there will be minimal site clearance and levelling. Any removals would be transported away from the site with skip trucks and skips (deliveries depend on the actual situations (estimated with 4 deliveries). Minimal levelling the site with soil or rocks carried by the Dump trucks with approximate 3 deliveries (depends of the site level), then levelling with the blade levelling vehicle.

Aggregate

The total aggregate will be installed over an area of around 2941 square metres, and around 0.1m thick. A 15.4m articulated vehicle has a capacity of 29 tonnes, as such construction of the total surface area will require 15 deliveries.

Temporary Construction Access Track

It will be formed as a temporary panellised heavy-duty trackway. Each mat is around 3m x 2.5m x 0.4m thick. A 10m Rigid Truck would transport 50 mats, the trackway will be around 250 metres long, this equates to the need for around 100 mats by 2 deliveries.

Construction Activities

Battery Size & Other Facilities

Each Battery will arrive in standardised 40ft (12.2m) intermodal (shipping) units by a 15.4m long articulated vehicle. There will be a total of 20 battery units together with PCS, four 5*2MW transformers, one DNO & one Private Ring each will be transported individually due to their weight. A Crane with 25 tonnes capacity would be used to unload Containers onto the concrete base.

Transformer

The transformer dimensions would be 7.8m long, 5.3 wide and 5.3m high. This will be delivered by a 15.4m low loader lorry.

Security Equipment

Fence and Security Cameras & 2.5m high deer fence & security cameras (maximum 8 deliveries by 15.4m articulated vehicle).

Trees

There will be total of circa. 400 new trees planted approximately 2m high and the species will be Crataegus monogyna (Hawthorn) & Prunus spinose (Blackthorn). A 40ft container could fit approximately 167 trees, therefore, three deliveries would be expected by 15.4m articulated vehicle (maximum four deliveries).

Workers (with vehicles)

A maximum of 20 construction workers during the construction period. Approximately 20 cars visit and parking. However, it will be depending on the sub-contractors and car sharing will be encouraged.

Operation Activities

Once operational, Maintenance would be made by light van or 4x4 type vehicles carry necessary tools with a frequency of 10-20 visits a year which is once or twice a month.

The table below shows all the HGV movements within the construction period.

Table 1: Heavy Goods Vehicle Movements in Construction Phase

Activity	Vehicles Size	Number of Deliveries (two-way movements)
Energy Storage Battery with PCS, DNO & Private Ring	15.4m Articulated Lorry	28 (56 two-way)
Aggregate	15.4m Articulated lorry	Max. 15 (30 two-way)
Transformer	15.4m Articulated Lorry	1 (2 two-way)
Security Fencing & CCTV	15.4m Articulated Lorry	8 (16 two-way)
Moving Trees	15.4m Articulated Lorry	3 (6 two-way)
360-degree track excavators & blade levelling vehicle	15.4m Articulated low loader Lorry	1 (2 two-way)
Container Crane	9.1m Crane Truck	1 (2 two-way)
Concrete	9.8m Mixer Truck	24 (48 two-way)
Waste Management	Standard skip truck	3 (6 two-way)
Levelling	7.6m Dump Truck	3 (6 two-way)
Access Track	10m Rigid Tipper Truck	2 (4 two-way)
Maximum Total		89 (178 two-way)

Transport Management Plan

As agreed during the pre-planning consultation, a comprehensive Transport Management Plan will be provided prior to the commencement of development and it is requested by the Applicant to undertake this as a condition of the grant of planning permission.