

**Substation Civils Re-Opener**  
**Basic Project Investment Paper**  
**Barking 400kV – Installation of GIS Access Platform**

Author	Steve Barnett	Date Started	14/06/2022
Reference Number	2013-177		

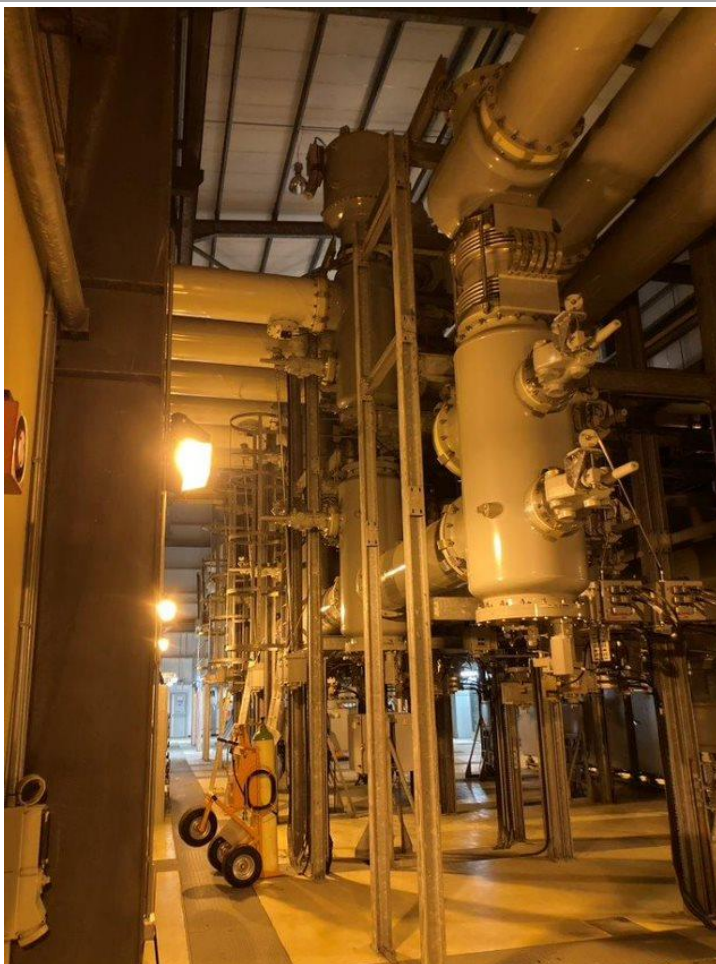
### 1. Scheme Summary by Regulatory Category

Unique Identifier	Site	Asset	RIO Financial Category	Output Year	Total Costs (£m)
2013-177	Barking 400kV Substation	GIS Hall	Buildings	2025	■

### 2. Driver Summary

<b>Project Overview</b>	<p>At Barking 400kV substation there isn't a means of safe access to Gas Zones 4 on each of the feeder bays. This limits the access to the wound VT's and restricts maintenance of the assets and access to the gas filling points.</p> <p>The project proposes to install new access platforms and stairs/ladders at each feeder bay to allow access to the filling points at the top of the GIS equipment. A survey of each feeder bay will need to be carried out to determine the location and size of each platform and stairs/ladder.</p>
<b>Plant Status Link:</b>	2013-177

**Scope  
Diagram/Photographs**



### 3. Project Summary

<b>Overview</b>	<p>The project proposes to install new access platforms and stairs/ladders at each feeder bay to allow access to the filling points at the top of the GIS equipment.</p> <p>The project will require a survey of each feeder bay to determine the location and size of each platform and stairs/ladder. This will take approximately 1 week.</p> <p>The access arrangements and platforms will then require fabrication. This is expected to take approximately 3 months.</p> <p>Once this is complete, the installation can take place at the substation taking 1-2 weeks per bay. This work will be phased to suit operational requirements.</p>
<b>Programme/Duration</b>	<p>Site works expected to take around 6 months. The works will need to be carried out intermittently to ensure that they do not impact operational arrangements within the substation.</p>
<b>Outage Requirements &amp; Ops Resource</b>	<p>No required outages anticipated as the works are around GIS trunking</p>
<b>Key Risks and Hazards</b>	<p>Working at height Congested areas Access/Egress Proximity to SF6 equipment.</p>

<b>Design to Be Resolved</b>	No design works has yet been undertaken. Further detailed surveys will be required for the fabrication design to be produced.
<b>Development Strategy/Interacting Works</b>	Works will be planned to take place around site constraints. No known interacting works currently.
<b>Assets In Ellipse:</b>	BARK4SBLD BARK4SGT1
<b>Contract Strategy</b>	Competitive Tender or Multiple Quotations.

#### 4. Baseline Cost Estimates

All costs in this section are base costs (pre-out-turned), to 2 decimal places

<b>Base Year</b>	2018/19							
<b>Base Cost totals (£m)</b>	<b>Plant Status No.</b>	<b>Costs incurred to date (£m)</b>	<b>Design Costs (£m)</b>	<b>Contractor Prelims (£m)</b>	<b>Contractor Construction Cost (£m)</b>	<b>Contractor Temporary Works (£m)</b>	<b>Contingency (£m)</b>	<b>Total Project Cost (£m)</b>
	2013-177	■	■	■	■	■	■	■
<b>Notes:</b>	<p>Estimated design cost for further surveys and design for fabrication.</p> <p>Contractor produced estimate incorrectly applied prelims percentage. This is adjusted to the correct value in this paper. Covered by assurance adjustment in Appendix 02.</p>							

#### 5. Declarations

<b>Approval</b>		<b>Name</b>	<b>Signature</b>	<b>Date</b>	<b>Declaration</b>
1	Commercial and Portfolio Manager	Sheena Froggatt		03/08/22	The Investment Team Manager has determined that this scheme is in line with overall business goals and objectives.
2.	Asset Management Lead	Damien Culley		22/08/22	The Asset Management Lead has determined that this scheme is in line with overall business goals and objectives.