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Contract

Phase 2 - Filton Renewables - Prototype - R&D Project

NETWORK RAIL INFRASTRUCTURE LIMITED

UK7: Contract details notice - Procurement Act 2023 - [view information about notice types](#)

Notice identifier: 2025/S 000-076654

Procurement identifier (OCID): ocds-h6vhtk-058451 ([view related notices](#))

Published 24 November 2025, 5:15pm

Scope

Description

Network Rail (Wales and Western) intends to award a contract via direct award under the Procurement Act 2023 to Turbo Power Systems Limited (TPS) for the continued development (Phase 2) of a first-of-its-kind 25 kV Integrated Converter Prototype for use on the railway.

This prototype forms part of a strategic innovation programme to enable the use of self-generated renewable energy for powering electric trains — a key enabler of Network Rail's long-term decarbonisation and sustainability objectives.

TPS, a specialist in advanced power electronic systems, initially proposed the concept to Network Rail and successfully delivered Phase 1, which included the design and demonstration of a proof of concept. This was formally reviewed and approved by Network Rail's Technical Authority, confirming both technical feasibility and alignment with operational requirements.

The Phase 2 contract will progress the innovation to a functional prototype, building directly on the technical foundations established in the initial phase.

Contract 1. Phase 2 -Filton Renewables - Prototype - R&D project

Supplier

- Turbo Power Systems Ltd

Contract value

- £2,065,000 excluding VAT
- £2,478,000 including VAT

Above the relevant threshold

Date signed

17 October 2025

Contract dates

- 20 October 2025 to 19 October 2027
- Possible extension to 19 October 2028
- 3 years

Description of possible extension:

R&D Project - may be extended further to meet deliverable requirements

Main procurement category

Services

CPV classifications

- 73120000 - Experimental development services

Other information

Applicable trade agreements

- Government Procurement Agreement (GPA)
- Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP)

Conflicts assessment prepared/revised

Yes

Procedure

Procedure type

Direct award

Special regime

Utilities

Direct award justification

- Prototypes and development
- Single supplier - intellectual property or exclusive rights
- Single supplier - technical reasons

A direct award is justified under Section 41(1)(b) of the Procurement Act 2023 due to the absence of competition for technical reasons. TPS retains all intellectual property rights (IPR) over the existing design and remains the only economic operator with the capability to deliver the required next stage of development.

Supplier

Turbo Power Systems Ltd

- Public Procurement Organisation Number: PRZP-5234-CTQL

1 Queens Park, Queensway North, Teams Valle Trading Estate

Gateshead

NE11 0QD

United Kingdom

Email: info@turbopowersystems.com

Region: UKC22 - Tyneside

Small or medium-sized enterprise (SME): No

Voluntary, community or social enterprise (VCSE): No

Supported employment provider: No

Public service mutual: No

Contract 1

Contracting authority

NETWORK RAIL INFRASTRUCTURE LIMITED

- Public Procurement Organisation Number: PNZN-9524-VCQJ

Waterloo General Office

London

SE1 8SW

United Kingdom

Email: amy.slocombe@networkrail.co.uk

Website: <https://www.networkrail.co.uk/>

Region: UKI45 - Lambeth

Organisation type: Public authority - central government