

Supply of Electricity to the ITER site

Technical summary

This is the Technical Summary for the Call for Nominations to interested parties for the ITER Organization's Supply of Electricity Contract, which will be for the supply of electricity to the ITER Organization's site at the Route de Vinon-sur-Verdon 13067, St Paul Lez Durance, France. The Contract will also cover the duties and responsibilities foreseen for the Balance Responsibility Entity (La gestion de l'équilibre) for the ITER's Site.

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1 Introduction

The ITER project aims to build a fusion device, twice the size of the largest current devices, with the goal of demonstrating the scientific and technical feasibility of fusion power. It is a joint project between the European Union (represented by EURATOM), Japan, The People's Republic of China, India, the Republic of Korea, the Russian Federation and the USA. ITER will be constructed in Europe, at St Paul Lez Durance in the south of France.

2 Contract outline

- The ITER Organization's Supply of Electricity Contract is for the supply of electricity to the ITER Organization's site at the Route de Vinon-sur-Verdon 13067, St Paul Lez Durance, France.)
- The ITER Organization will be a "Final Customer" under the definitions of the Internal Market in Electricity Directive 2003/54/EC.
- The Contract will also cover the duties and responsibilities foreseen for the Balance Responsibility Entity (La gestion de l'équilibre) for the ITER's Site.

The interested parties should note the following:

- The initial contract will be for 1 (one) year with two options to extend the contract by a further year. (Giving a maximum total of 3 (three) years for the duration of the contract)
- The maximum absorbed power could be in a range of 5 to 40 MW during the period defined for this contract. (Over the duration of the contract including the optional extensions.)
- The annual consumption is anticipated to in the range of 10 to 60 GWh/year (Over the duration of the contract including the optional extensions.)
- The Electrical supply shall be delivered by the Réseau de Transport d'Electricité at 400 kV to the ITER Organization's switchyard located at the ITER Site.
- The supply of electricity shall be eventually measured via seven sets of meters that are furnished, controlled and owned by the RTE.
- All communications shall be in English.

3 Candidate's Experience and Technical Capability

Besides the candidates Financial and Economic capacity, the Pre-selection will be based on the following (selection criteria will be detailed at pre-qualification stage):

- During the preceding 5 years they have successful experience in supplying electricity to other projects of similar size, type and complexity. (The experience shall be attributed to the Organisation that is applying. Where a company claims to have the required experience, it shall be in its current entity.)

- During the preceding 5 years they have successful experience in acting as a Balance Responsible Entity to other projects of similar size, type and complexity. (The experience shall be attributed to the Organisation that is applying. Where a company claims to have the required experience, it shall be in its current entity.)
- Demonstrated commitment to cooperative contracting relationship.
- ITER approved QA Program or an ISO 9001.

4 Roles and Responsibilities

4.1 Transportation

The transportation of the electrical supply is performed by RTE and therefore will be excluded from the Supply of Electricity Contract.

4.2 Supply of the Electricity

The appointed Contractor shall supply the agreed electrical demand to the ITER Organisation's site, at the Route de Vinon-sur-Verdon 13067, St Paul Lez Durance, France.

4.3 Balance Responsibility Entity

The appointed Contractor shall also be the Balance Responsibility Entity to manage any in balance in the ITER Organization's electrical load.

5 Initial configuration (2016) of the Electrical consumption

The site is under construction and the requirement in the initial period is anticipated to be in the order of 3 to 10 MW.

Initially the supply will be connected through one of the SSEN 400kV/22kV 60/75 MVA (ONAN/ONAF) transformers.

6 Evolution of the Electrical consumption (2018)

On completion of the second optional year of the Contract (2018) the electrical consumption is considered to be in the order of 40 MW.

7 Indicative Timetable

An indicative timetable for the ITER Organization's Supply of Electricity Contract

Call for Nomination	Week 27
Information day	16th of July 2015
Issue Pre-qualification package	Week 32
Deadline for receipt of pre-qualification:	Week 38
Issue Call for Tender	Week 41
Deadline for receipt of Tenders	Week 47
Contract Signature	2016, Week 8

8 Information day for Potential Applicants

- An information day aimed at presenting the Supply of Electricity Contract will be held on the 16th of July 2015 at the ITER Headquarters, Route de Vinon-sur-Verdon 13067, St Paul Lez Durance, France.
- It is not mandatory for potential candidates to attend the information day.
- The deadline for registration to attend the Information day is 12 noon on the 10th of July 2015.
- For more information visit <https://www.iter.org/electricalsupplyinfoday>.
- A potential candidate may be represented at the information day by a maximum of three people.
- A written record of the contractually relevant questions asked at or before the information day together with their answers will be provided to potential candidates.
- Following the information day, a 1-hour appointment will be proposed on the 16th and 17th of July to the potential candidates interested in meeting with the IO for presenting their views on the contract.

9 Disclaimer

The ITER Organization is not committed contractually in any way to those applicants whose applications are accepted. The issue of this Technical Summary does not commit or otherwise oblige the ITER Organization to proceed further with the Supply of Electricity Contract process.

Whilst the information contained in this Technical Summary has been formulated with all due care, it shall not form any part of any future contract that maybe signed between the ITER Organization and any party or entity.

Furthermore, the ITER Organization takes no responsibility for the accuracy of any information included in this Technical Summary.



Note

Neither the ITER Organization nor any of the Domestic Agencies that are part of the ITER project shall be liable for any costs incurred by applicants through participation in the call for tender process.