

The documents “Value Estimates for ITER Phases of Construction, Operation, Deactivation and Decommissioning and Form of Party Contributions” and “Cost Sharing for all Phases of the ITER Project”

Value Estimates for ITER Phases of Construction, Operation, Deactivation and Decommissioning and Form of Party Contributions

Value Estimates for ITER Phases¹

The table below provides a summary of the value estimates for the ITER phases, including references.

ITER Phases	Value in kIUA or MEuros ²	Form of Contributions ³ and References
Construction Phase	3577.7 kIUA Total	
1. Direct Capital	3020.7	Mainly in-kind for hardware and assembly/ test of Tokamak components Cash mainly for installation/test of non-Tokamak components <i>References:</i> ITER EDA Doc. Series 24 and N-12 ROM Attachment 5-2 on Procurement Allocation
2. Management and Support consisting of ITER Organization and staff (employees plus secondees) and infrastructure	477.0	Cash for employees, secondee allowance, infrastructure, etc. In-kind for secondees <i>Reference:</i> ITER EDA Doc. Series 24
3. R&D During Construction	80.0	Cash <i>Reference:</i> ITER EDA Doc. Series 24
Operation Phase	188.0 kIUA per Year	
1. Personnel	60.0	Cash for employees, etc. In-kind for secondees <i>Reference:</i> ITER EDA Doc. Series 24
2. Facility Operation (e.g. energy, fuel, maintenance, upgrades)	128.0	Cash and In-kind <i>Reference:</i> ITER EDA Doc. Series 24
Deactivation Phase	281 MEuros Total	Cash <i>Reference:</i> NSSG-8 Decommissioning Input Appendix D
Decommissioning Phase	530 MEuros Total	Cash <i>Reference:</i> N-12 ROM Attachment 8 on Project Resource Mgmt. Regs

¹ The value estimate for each ITER phase establishes the Parties' combined contributions to that phase of the ITER Project. The sharing of costs among the Parties is set out in the document "Cost Sharing for All Phases of the ITER Project".

² One kIUA equals one million US dollars (January 1989); Euro figures are at January 2001 values.

³ In kind contributions are measured in kIUA. Cash contributions are to be in Euros. To establish the kIUA value of cash contributions, the Euros shall be de-escalated to Euros (January 1989) using proven inflation rates, and then converted to millions of dollars (January 1989) to yield kIUA.

Cost Sharing for all Phases of the ITER Project

There are four distinct phases in the ITER project:

Construction
Operation
Deactivation
Decommissioning

Value estimates for these phases are set out in the document: "Value Estimates for ITER Phases of Construction, Operation, Deactivation and Decommissioning and Form of Party Contributions"

Construction Phase

Sharing of the estimated costs for the Construction Phase, expressed in both % of the sum of the contributions and in ITER units of value:

Host Party (EU),	45.46%	1626.23 kIUA
Each Non-Host Party	9.09%	325.245 kIUA
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All Parties	100.0%	3577.70 kIUA

(Note that this Contribution for Construction is that Contribution provided by each Party as its share of the agreed total estimated Construction Cost as contained in the Final Design Report of the ITER EDA and adjustments for split procurements.)

If required, upon proposal by the Director General and subject to the approval by the Council, the Parties will also provide the following:

Host Party (EU),	45.46%	162.62 kIUA
Each Non-Host Party	9.09%	32.525 kIUA
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All Parties	100.0%	357.77 kIUA

Total:

Host Party (EU),	45.46%	1788.85 kIUA
Each Non-Host Party	9.09%	357.77 kIUA
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All Parties	100.0%	3935.47 kIUA

Operation Phase

Sharing of the estimated costs for the Operation Phase by the Parties, expressed both in % of the sum of contributions and in ITER units of value:

CN	10%	18.80 kIUA/year
EU	34%	63.92 kIUA/year
IN	10%	18.80 kIUA/year
JA	13%	24.44 kIUA/year
KO	10%	18.80 kIUA/year
RF	10%	18.80 kIUA/year
US	13%	24.44 kIUA/year
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All Parties	100%	188.00 kIUA/year

Deactivation Phase

Sharing of the estimated costs for Deactivation by the Parties, expressed both in % of the sum of contributions and in MEuros:

CN	10%	28.10 MEuros
EU	34%	95.54 MEuros
IN	10%	28.10 MEuros
JA	13%	36.53 MEuros
KO	10%	28.10 MEuros
RF	10%	28.10 MEuros
US	13%	36.53 MEuros
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All Parties	100%	281.00 MEuros

The sharing of estimated costs for Deactivation is proportionally the same as that for Operation because the Deactivation burden is determined by the outcome of the Operations period.

Decommissioning Phase

Sharing of the estimated costs for Decommissioning by the Parties, expressed both in % of the sum of contributions and in MEuros:

CN	10%	53.0 MEuros
EU	34%	180.2 MEuros
IN	10%	53.0 MEuros
JA	13%	68.9 MEuros
KO	10%	53.0 MEuros
RF	10%	53.0 MEuros
US	13%	68.9 MEuros
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All Parties	100%	530.0 MEuros

Sharing of the estimated costs for Decommissioning is proportionally the same as that for Operation because the Decommissioning burden is determined by the outcome of the Operations period.

NOTE 1: ‘Decommissioning’ is understood to mean the actions dealing with the end-state of the ITER Facility following Operations with D-T fuels which will have activated the structure. It is for this reason that the Cost Sharing for Decommissioning is the same as that for Operation.

Should the ITER Facility be disassembled before it is activated, the costs of disassembly would be shared in proportion to the Cost Sharing for ITER Construction.

NOTE 2: The Parties will plan to provide their contributions to the costs of decommissioning by regular annual payments during the course of the ITER operations into a dedicated fund. In the case of a Party withdrawing from ITER after the start of operations, the Party is to contribute its share of the Decommissioning Fund to the extent that the decommissioning liability will have accrued by the date on which its withdrawal takes effect.

NOTE 3: The Host Party shall take responsibility for material increases in the costs of ITER construction resulting from any significant changes of regulations made by the competent authorities of the Host State after the date of the initial application for the license, except for those that result from changes in international regulatory standards that do not solely stem from Host Party regulations.