



[Home page](#) | [News](#) | [Contacts](#) | [Sitemap](#)

Поиск

[ITER Project](#)

[ITER — Russia](#)

[Largest Plasma Labs](#)

[Documents](#)

[Press-Releases](#)

[Schedule of ITER Meetings](#)



[Main page](#) > [ITER Project](#)

ITER Project

ITER (International Thermonuclear Experimental Reactor) is the first experimental thermonuclear reactor in the world.

International **ITER** Project shall be implemented on the basis of the world leading thermonuclear programs. Its goal is demonstrating scientific and technical potential of generating thermonuclear energy for peaceful uses. **ITER shall become the first thermonuclear facility generating commercial heat.**

The currently existing experimental thermonuclear facilities generate small amount of heat due to nuclear fusion. **ITER is designed to produce a ten-fold return on energy (Q=10), or 500 MW of fusion power from 50 MW of input power** and shall contribute towards solving technical issues of key importance, which arises while applying nuclear fusion as the practical source of energy.

ITER is the follow-up logical step in the development of research programs in the field of Controlled Thermonuclear Fusion (CTF). This is an important step in demonstrating the potential of generating electricity due to thermonuclear fusion.

Cooperation in the framework of the **ITER** Project allows significant cost savings for each of its Members, and moreover, allows extending the experience gained within the recent decades in the field of thermonuclear programs and facilities.

[Project History](#)

[Project Participants](#)

[Project Management Structure](#)

[ITER Open Positions](#)