

## IEA TECHNOLOGY COLLABORATION PROGRAMMES

Cross-Cutting

End-Use: Buildings

End-Use: Electricity

End-Use: Industry

End-Use: Transport

Fossil Fuels

Fusion Power

Environmental, Safety  
& Economy (ESEFP  
TCP)

Fusion Materials (FM  
TCP)

Nuclear Technology of  
Fusion Reactors (NTFR  
TCP)

Plasma Wall  
Interaction (PWI TCP)  
Reversed Field Pinches  
(RFP TCP)

Spherical Tori (ST TCP)

Stellarator-Heliotron

Concept (SH TCP)

Tokamak Programmes  
(CTP TCP)

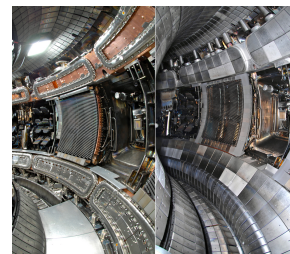
Renewable Energy



## Tokamak Programmes (CTP TCP)

The CTP TCP carries out collaborative research activities on tokamak\*\* fusion reactors and joint experiments to enhance scientific and technological understanding of these doughnut shaped devices for fusion power.

**In-vessel coil devices designed to mitigate transient thermal energy losses in the ASDEX-Upgrade tokamak (Garching, Germany).\***



## ACTIVITIES

- Confinement and transport
- Disruption and ELM mitigation
- Edge and pedestal physics
- Energetic particles
- Plasma control and scenario development
- Plasma diagnostics
- Plasma-wall interaction
- SOL and divertor physics

## PARTICIPANTS

Contracting Parties: 8

## WEBSITE

<http://ctp.jet.efda.org/>

\* Photos courtesy of Max Planck Institute for Plasma Physics

\*\* The term *tokamak* is a transliteration of the Russian term for a toroidal chamber with magnetic coils (*toroidal'naya kamera v magnitnykh katushkakh*)

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