

## TCP on Hydropower (Hydropower TCP)

Hydropower is the largest source of renewable electricity in the world and it is particularly suited to providing system flexibility. The Hydropower TCP is a global platform for advancing hydropower technology, encouraging the sustainable use of water resources for the development and management of hydropower.

### Main areas of work

- Optimising the value of hydropower and system integration services
- Technical, social, and environmental aspects of hydropower
- Communication, learning and engagement

### Key accomplishments (2017-2018)

- Completed phase 1 of [valuing hydropower services](#) project
- Workshop on [hydropower and fish: research and innovation in the context of the European policy Framework](#)
- Kick-off workshop on Phase II of valuing hydropower services
- Kick-off workshop on hidden hydro opportunities
- Meetings with hydropower utilities in Canada and USA to investigate asset management approaches covering modernisation of existing projects



*Gordon Dam in Tasmania (Photo courtesy of Hydro Tasmania)*

### New priorities and projects (2019 – 2020)

- Initiate phase II of [valuing hydropower services](#) project
- Launch [hidden hydro](#) project, focussed on the use of unharnessed water flow and hydraulic head at non-power dams and improving the performance of existing facilities
- Initiate joint annex project on value of hydropower in mitigating climate change impacts

## Multilateral collaborations

- Interested in collaboration with the Wind TCP and the TCP on Solar Heating and Cooling (SHC TCP) on best practices in optimising energy and system integration services.
- Interested in collaboration with the TCP on Ocean Energy Systems (OES TCP) on kinetic or very low head technologies, as well as use of sea water pumped storage to support tidal/wave energy.

## Membership



Australia



Brazil



China



Finland



Japan



Norway



Switzerland



United States



European Commission

## Why should your organisation become a member of the Hydropower TCP ?

Hydropower is a safe, reliable and a cost-effective source of clean energy in use in over 160 countries, proving more than 15% of the world's electricity. Hydropower generation could increase from over 4000 TWh at present to over 7000 TWh by 2050 – through new plant as well as modernization of existing equipment and structures.

The Hydropower TCP is working cooperatively with the participating national governments, multi-lateral organisations, industry and other associations to raise the profile of hydropower in energy policy formulation, market regulation and adoption of hydropower specific strategies.

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