

ETIP HYDROPOWER Governing Board Application form

Name and surname	Click or tap here to enter text.
Photo	
Name of entity (e.g. company, association, etc.)	IEA Hydropower Technology Collaboration Programme
Job title / role	Secretary of the Executive Committee
Stakeholder category	<input type="checkbox"/> Hydropower industry and technology ¹ <input type="checkbox"/> Operator/owner of large hydropower plants and/or pumped storage plant(s) <input type="checkbox"/> Independent operator/owner of small hydropower plant(s) <input type="checkbox"/> Design, planning and project development <input type="checkbox"/> Finance, business and insurance ² <input checked="" type="checkbox"/> Research, innovation and development ³ <input type="checkbox"/> Environment and civil society ⁴
Country	International
Previous experience (1300 characters with spaces)	<p>I am a civil engineer (University of Stuttgart and U. of Calgary) with 35 years hydropower experience. I worked in hydropower research for 20 years, from 2001 to 2007 as a tenured full professor at the Center of Ecohydraulics Research in the Civil Engineering Department of the University of Idaho, USA. Since 2008 I have worked mostly in hydropower consulting and also served as the manager of the hydropower research program of the Swiss Federal Office of Energy (SFOE). In 2012 I started my own consulting firm KJ Consult, based in Klagenfurt, Austria. I have worked on hydropower projects in more than 30 countries worldwide for clients such as the World Bank, EBRD, KFW, GIZ etc.. My collaboration with SFOE as hydropower research program manager is still ongoing and as part of my responsibilities there I'm also re-presenting Switzerland as alternate executive committee (ExCo) member of the IEA Hydropower Technology Collaboration program. In</p>

¹ Equipment supplier and/or manufacturer, maintenance industry, etc.

² Financial, legal & developing institutions, development, public or commercial banks, financial organisations, and private investors/investment funds, international monetary fund, insurance, legal advisors, etc.

³ R&D institutions, research centers and institutes of universities, etc.

⁴ Environmental or conservation NGO's, civil society associations, policy makers, water resources associations, project stakeholders, etc.

	<p>2021 I took in addition the role of the secretary of the IEA Hydro ExCo. I have served on multiple international advisory boards for research projects and programs (e.g. SCCER-SoE in Switzerland, CEDREN in Norway) and am presently one of the work package leaders of Hydro4U, and innovation project funded by the EU Horizon 2020 program.</p>
<p>Motivation to become Governing Board member (1300 characters with spaces)</p>	<p>Hydropower is playing a crucial role for the change of the global electricity supply. The growth rates to reach net zero greenhouse gas emissions from the energy sector by 2050 require a dramatic acceleration of global hydropower implementation but also for strategies and technologies for the many aging hydropower schemes in European and North American countries. This necessary development is facing many challenges from environmental and social concerns to the lack market conditions, suitable financing tools and political willingness to support the necessary investments. In addition there are technical challenges related to the need for more flexibility and storage, adaptation to climate change and other issues to be addressed to support the new role hydropower will have to play to facilitate the integration of increasing capacities of unregulated renewables into global electricity grids. All in all hydropower related research should be based on multilateral projects and programs and the hydropower sector must speak with one voice to convince policy makers and market designers to take the necessary steps. I want to contribute my personal experience and the support of the IEA hydropower TCP to bring hydropower on a higher level of awareness of policy and decision makers.</p>