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A Fellow of Sustainable Energy Unit, Technology Strategy Center (TSC) of New Energy and Industrial Technology Development Organization (NEDO), National Research and Development Agency of Japan.

- He has been a Director General of Energy Systems and Hydrogen Unit, Technology Strategy Center of NEDO for 5 years since 2014 and has made various kinds of energy technology strategies so far.
- He is also a Researcher Emeritus of National Institute of Advanced Industrial Science and Technology (AIST), and he had been a Vice-President of AIST for 7 years before entering NEDO.
- He completed PhD in Mechanical Science and Engineering, Tokyo Institute of Technology at 1979
- He is a Member of Science Council of Japan and he had been concurrently a Professor of University of Tsukuba (1992-2010), Adjunctive Professor of Science University of Tokyo (1995-2009), Russell Severance Springer Professor, Department of Mechanical Engineering, University of California, Berkeley (2001), Professor (Cooperative Chair) of Tokyo Institute of Technology (2005-2013)
- He also served as the President of the Japan Society of Mechanical Engineers (JSME) (2013-2014).
- Area of expertise: Energy Engineering, Hydrogen, Batteries, Energy Systems, Mechanical Engineering