

Otsuki Takashi

Position/Department/Division/Institution/Organization

Senior Researcher, New and Renewable Energy Group, Electric Power Industry & New and Renewable Energy Unit, The Institute of Energy Economics, Japan (IEEJ)

Country

Japan

Career history

October 2020 Senior Researcher, The Institute of Energy Economics, Japan
July 2020 Visiting Researcher, Department of Nuclear Engineering and Management, School of Engineering, The University of Tokyo
April 2014 Researcher, The Institute of Energy Economics, Japan

Awards/Publications

August 2020 The Japan Institute of Energy Award for Distinguished Paper (Year 2020)
July 2020 16th Distinguished Paper Award, Japan Society of Energy and Resources
February 2020 The Japan Institute of Energy Award for Encouragement (Year 2019)

Full list of publications is available at <https://researchmap.jp/takashiotsuki>

Selected publications are as follows:

- **Takashi Otsuki**, Yoshiaki Shibata, “Prospects for Methanation in Japan: Techno-economic Assessment on a CO₂ capture, Water Electrolysis and Sabatier Reaction System Using an Electricity and City Gas Supply Model”, Journal of Japan Society of Energy and Resources, Vol.41, Issue.6, pp.266-281, (2020),
https://www.jstage.jst.go.jp/article/jjsr/41/6/41_266/article/-char/en (in Japanese)
- **Takashi Otsuki**, Ryoichi Komiyama, Yasumasa Fujii, “Development of a Regionally Disaggregated Global Energy System Model and Analysis of Energy and CO₂ Transportation in a Low-carbon System”, Journal of Japan Society of Energy and Resources, Vol.40, Issue.5, pp.180-195, (2019),
https://www.jstage.jst.go.jp/article/jjsr/40/5/40_180/article/-char/en (in Japanese)
- **Takashi Otsuki**, Ryoichi Komiyama, Yasumasa Fujii: “Techno-economic Assessment of Hydrogen Energy in the Electricity and Transport Sectors Using a Spatially-disaggregated Global Energy System Model”, Journal of the Japan Institute of Energy, Vol.98, No.4,

pp.62-72, (2019), https://www.jstage.jst.go.jp/article/jie/98/4/98_62/article/-char/en (in Japanese)

- **Takashi Otsuki**, Ryoichi Komiyama, Yasumasa Fujii, “Study on Surplus Electricity under Massive Integration of Intermittent Renewable Energy Sources”, *Electrical Engineering in Japan*, Vol. 201, No. 2, 2017 (Translated from *Denki Gakkai Ronbunshi*, Vol. 135-B, No. 5, May 2015, pp. 299–309), (2017), <https://doi.org/10.1002/eej.22996>
- **Takashi Otsuki**, “Costs and benefits of large-scale deployment of wind turbines and solar PV in Mongolia for international power exports”, *Renewable Energy* Volume 108 pp.321-335 (2017), <https://doi.org/10.1016/j.renene.2017.02.018>
- **Takashi Otsuki**, Aishah Binti Mohd Isa, Ralph D. Samuelson, “Electric power grid interconnections in Northeast Asia: A quantitative analysis of opportunities and challenges”, *Energy Policy* Volume 89 pp.311-329 (2016), <https://doi.org/10.1016/j.enpol.2015.11.021>
- Ryoichi Komiyama, **Takashi Otsuki**, Yasumasa Fujii, “Energy modeling and analysis for optimal grid integration of large-scale variable renewables using hydrogen storage in Japan”, *Energy* Volume 81 pp.537-555 (2015), <https://doi.org/10.1016/j.energy.2014.12.069>

Areas of expertise

Energy System Modeling and Analysis, Climate Change Mitigation