Energy System Integration Social Cooperation Program

[Research of future energy system]

Institute of Industrial Science

Energy system integration

https://www.esisyab.iis.u-tokyo.ac.jp/

Research member (professors)



IWAFUNE Yumiko, Professor Sustainable Energy System Department of Human and Social Systems, Architecture:Graduate School of Engineering



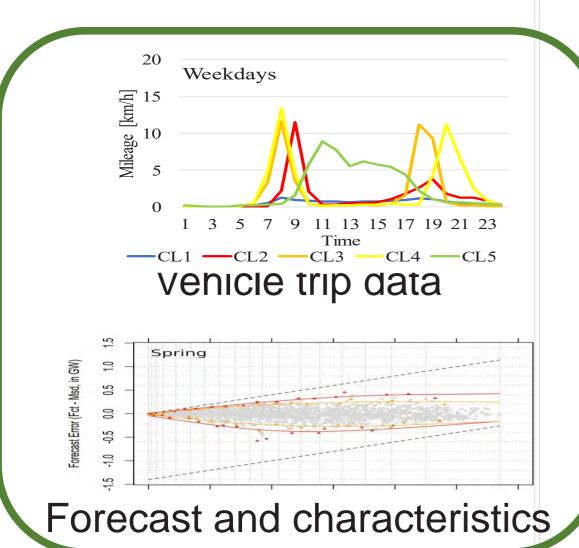
SHIKAZONO Naoki, Professor
Thermal Energy Engineering
Dep. of Mechanical and Biofunctional Systems,
Mechanical Engineering:Graduate School
of Engineering



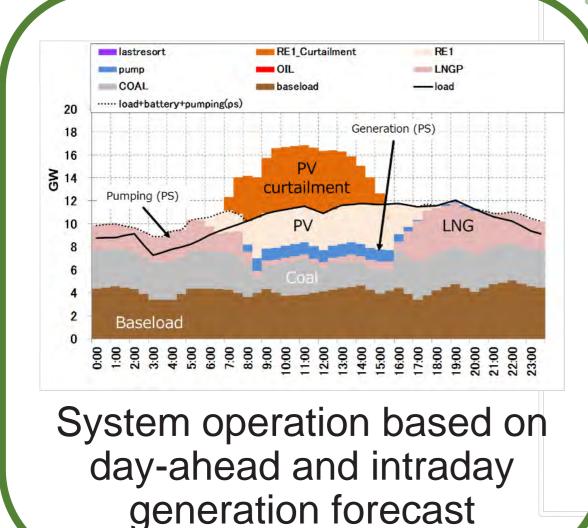
OOKA Ryozo, Professor
Urban Energy Engineering
Department of Human and Social Systems,
Architecture: Graduate School of Engineering



OGIMOTO Kazuhiko, Project Professor Energy System Integration Department of Human and Social Systems, Electrical Engineering and Information Systems:Graduate School of Engineering

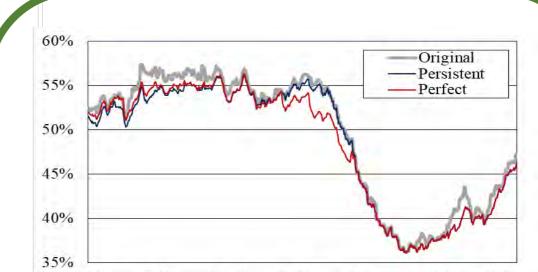


Analysis and forecast of renewable energies and services



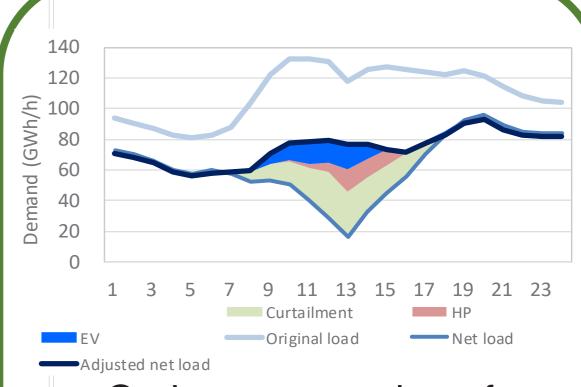
Optimum operation and risk evaluation

Strategy of energy system integration



Wind generation control with generation forecast and application to a power system

Methodology of management and control



Optimum operation of charge/discharge and heat pump water heaters

Evaluation of values/Scenarios

Participating entities

Electric Power Development Co.,Ltd., The Kansai Electric Power Co., Inc., Osaka Gas Co., Ltd., Looop Inc., IoT-EX Inc., Hitachi Mitsubishi Hydro Corporation, Toyota Central R&D Labs., Inc., Nissan Motor Co., Ltd., ENERES Co.,Ltd., Panasonic Corporation, Toshiba Mitsubishi-Electric Industrial Systems Corporation, Sumitomo Heavy Industries, Ltd., SEKISUI CHEMICAL CO.,LTD, Hitachi Power Solutions Co., Ltd, Toyota Motor Corporation, Toshiba Energy Systems & Solutions Corporation, DAIKIN INDUSTRIES,LTD.,TOHO GAS Co.,LTD., NICHICON CORPORATION, Hitachi, Ltd.

We, in the area of power and energy sector, do researches on optimization of total system operation and asset planning, development of operation and control, value evaluation and dissemination strategy of individual systems and technologies, and human development, and human development through development and utilization of simulation and evaluation tools by university and participating entities