

Session Title: Advancements in Digital and Energy Technologies

Name: Iwafune Yumiko

Position: Project Professor, Energy System Integration, Social Cooperation Program (ESI), Institute of Industrial Science (IIS), the University of Tokyo

Abstract title: Utilization of demand side resources for energy efficiency and demand response in Japan

Various types of flexible customer-side resources are expected to play an important role in the proper operation of the power system, where renewable energy is introduced in large quantities. In Japan, stationary storage batteries, electric vehicles, and heat pump water heaters are seen as promising demand-side resources, but cost-effective aggregation is necessary to make efficient use of such a large number of resources at a few kW level. The construction of a communication and control management system that utilizes digital technology is essential for such aggregation.