

## 5th InfoSyEnergy Open Symposium

Venue : Kuramae Hall, Tokyo Tech Front

## “Utilizing big data to accelerate development of energy technology ”

Tokyo Tech InfoSyEnergy Research and Education Consortium/Academy of Energy and Informatics aim to accelerate various energy technologies toward carbon neutrality by utilizing data and high-performance computing, and create a field called "Energy Big Data Science". On the other hand, the energy field is a wide range, and the methods and problems of its utilization vary for each research topics.

In this symposium, firstly we asked Mr. Hirozumi Sone, Director and Chairperson of Azbil Corporation, who is leading the way towards carbon neutrality and is developing businesses that utilize data in building management systems and plant development, to give a keynote speech.

From Tokyo Tech, Prof. Ishii will give a lecture on electric power systems and Prof. Hirai will give a lecture on hydrogen energy as research and development of different technologies towards carbon neutrality. In the lecture, they will give comments on the current state of utilization of data and high-performance computing (data scientific methods, fluid simulation, computational chemistry, etc.) introducing each elemental technology.

In the followed panel discussion, we will discuss issues while taking into account the characteristics of the technology development topics such as; whether it would be effective to share data and methods in the future for each technology development, and if so, what kind of data and methods should be shared, and how?, what's its problem? etc.

We would like to think about the possibilities and direction of accelerating technological development using energy big data science towards the realization of a prosperous, human-centered carbon-neutral society. We look forward to your participation.

## Program

14:00	<b>Opening</b>	
14:00 ~ 14:05	<b>Purpose of the Symposium</b>	
	<b>Prof. Yoshisato KIMURA</b>	Symposium Chair, School of Materials and Chemical Technology, Tokyo Tech
14:05 ~ 14:15	<b>Opening Address</b>	
	<b>Kazuya MASU</b>	President, Tokyo Tech
14:15 ~ 14:30	<b>“InfoSyEnergy’s use of energy big data and activity overview”</b>	
	<b>Prof. Manabu IHARA</b>	Head, Tokyo Tech InfoSyEnergy Research and Education Consortium School of Materials and Chemical Technology, Tokyo Tech
14:30 ~ 15:30	<b>Keynote Speech</b>	<b>“Human-centered Automation”</b> —Contributions “in series” to the achievement of a sustainable society
	<b>Mr. Hirozumi SONE</b>	Director and Chairperson, Azbil Corp.,
15:35 ~ 16:05	<b>"Cyber-Physical Security for Power Systems"</b>	
	<b>Prof. Hideaki ISHII</b>	School of Computing, Tokyo Tech
16:05 ~ 16:35	<b>"CO2 fixation and In-situ measurement of batteries"</b>	
	<b>Prof. Shuichiro HIRAI</b>	School of Engineering, Tokyo Tech
16:45 ~ 17:45	<b>Panel Discussion</b>	
	Moderator : <b>Prof. Manabu IHARA</b>	
	Panelists : <b>Mr. Ken AMARI</b>	General Manager, GX Solution Department, Azbil Corp.,
	<b>Prof. Yohei YAMAMOTO</b>	Graduate School of Economics, Hitotsubashi University
	<b>Prof. Hideaki ISHII</b>	
	<b>Prof. Shuichiro HIRAI</b>	
17:45 ~ 17:50	<b>Closing Address</b>	
	<b>Prof. Manabu IHARA</b>	

18:00 ~ **Networking Event open** Venue: Royal Blue Hall, Tokyo Tech Front  
\*Fee will be charged for this event (¥1,000/person).



Free of charge

 Pre-registration [HERE](#) (Both On-site & Online)

English  
interpretation available  
(Only for online participants)