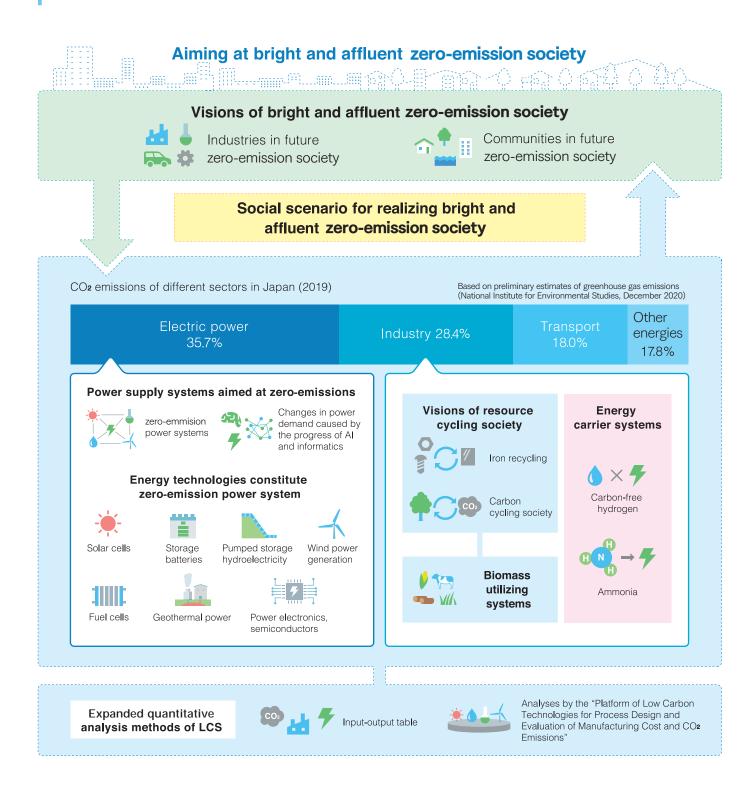
LCS's areas of research



LCS's output

LCS publicizes "Proposal Papers for Policy Making and Government Action toward Low Carbon Societies." The proposal papers cover the results of LCS's research on visions of bright and affluent zero-emission society; social scenarios for realizing the vision; evaluation of present status and prospects of science and technology and R&D strategies aiming at zero-emission; and LCS' s analysis methods. Please visit LCS' s website for more information.



STI for SDGs and LCS

JST drives forward "STI for SDGs," an initiative to promote contribution of science, technology and innovation to the achievement of Sustainable Development Goals, in Japan. JST is also actively engaged in establishing innovation ecosystems in Japan and abroad aiming at co-creation of the future with society. Its efforts include programs for creating an environment where diverse stakeholders have dialogues, co-design and work together, resolve issues and respond to social expectations. Activities of LCS are positioned as one of these "STI for SDGs" programs of JST

SUSTAINABLE GOALS











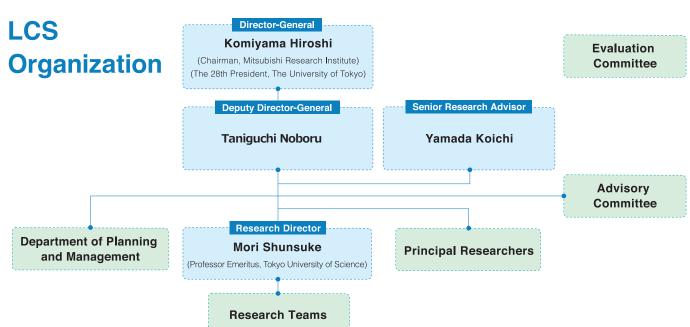












Center for Low Carbon Society Strategy (LCS) Japan Science and Technology Agency (JST)

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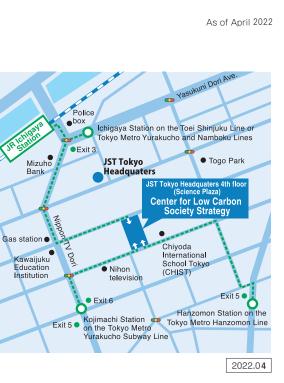
Fax +81-3-6272-9273

URL https://www.jst.go.jp/lcs/

- A 5-minute walk from Kojimachi Station (Exit 6) on the Tokyo Metro Yurakucho Subway Line
- A 10-minute walk from JR Ichigaya Station
- A 10-minute walk from Ichigaya Station (Exit 3) on the Toei Shinjuku Line or Tokyo Metro Yurakucho and Namboku Lines
- A 10-minute walk from Hanzomon Station (Exit 5) on the Tokyo Metro Hanzomon Line



「ベジタブルインキ」を使用し



ENVISIONING THE SOCIETY BASED ON SCIENCE AND TECHNOLOGY

CENTER FOR LOW CARBON SOCIETY STRATEGY





The challenge that faces all of us on the earth:

Achieving GHGs zero-emissions during the early second half of the 21st Century

Recently, disasters caused by extreme weathers have hit every corner of the world more frequently than ever. A major cause of such weathers is considered climate change. To cope with the climate change, it is widely agreed that we should realize the zero-emission society as early as possible during the second half of the 21st Century. Such society cannot be created without science and technology innovation. Nations and businesses have been competing more and more fiercely for dominance in the development of new energy technologies, especially renewable energies



Aiming at bright and affluent zero-emission society

There is, however, a concern that reducing GHG emissions to net zero simply by suppressing energy consumption might slow down our economy, which has grown by expanding energy consumption. We need to build a vibrant "bright and affluent zero-emmision society" where reduction of GHGs emissions from consumption of fossil fuels and economic growth are simultaneously achieved.

The Center for Low Carbon Society Strategy (LCS), established in December 2009, is one of the think-tank centers of the Japan Science and Technology Agency (JST), the national research and development agency which engages in the co-creation of the science and technology-based future with society. The mission of LCS is to formulate and propose strategies to develop technologies for more efficient energy use, to increase the use of renewable energies systematically, and to build "bright and affluent zero-emmision society based on science and technology."



Proposing scenarios for building GHGs zero-emission society

Initiatives by LCS

"How will we consume energies in zero-emission society?" "How will industrial structures change towards zero-emission society?" "How do we realize sustainable affluence?" "Which decarbonization technologies should we apply to achieve zero-emission society, and how?" To find solutions to these questions, LCS endeavors to envision a "bright and affluent zero-emmision society" and to develop scenarios and strategies to realize such a society



Developing scenarios and strategies to realize future society

How can we realize an ideal future society through science and technology innovation

Total greenhouse gas emissions in 2019:

1,213 million t-CO₂

Year 2030

Year 2050: a bright and affluent zero-emission future

Proposals for policies and industries

Climate change countermeasures

Center for Research and

JST-Mirai Program

Cooperation with research and

development initiatives

Collaboration with International Society

LCS's outreach activities

When and what kind of decarbonization technologies should be introduced to realize GHGs zero-emission society?

Evidence based quantitative analyses

The methodologies of LCS

LCS deploys unique evidence-based quantitative analysis to plan a "bright and affluent zero-emission society." Applying its original "Platform of low carbon technologies for process design and evaluation of manufacturing cost and CO2 emissions" and "Input-output table," LCS takes the following steps:

Envisioning "bright and affluent zero-emmision society" in the second half of the 21st Century

Identifying bottlenecks to be tackled in realizing zero-emission society through back casting from the vision of the future

Evaluating the cost of science and technology for zero-emissions and their applicability to our society

Proposing social scenarios for realizing "bright and affluent zero-emission society

