

"General Incorporated Association Green CPS Association"

~ Background of establishment and summary of council activities ~

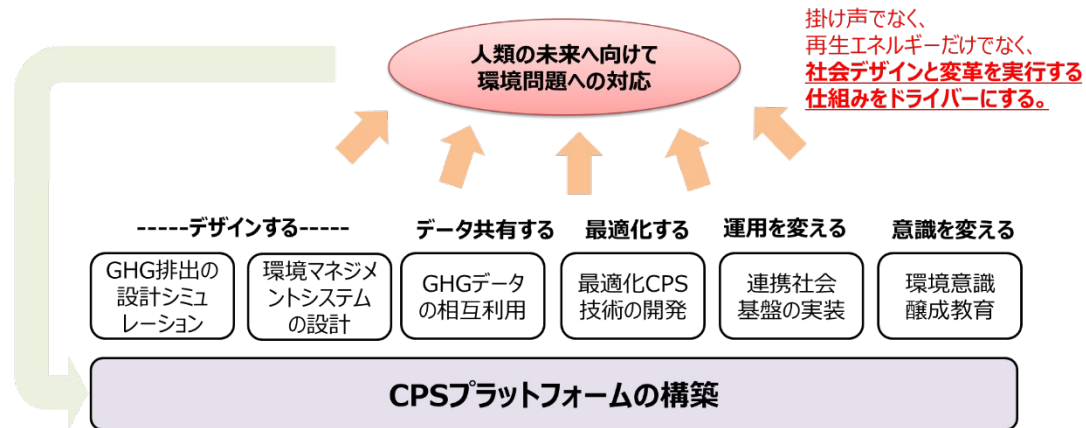
Towards an earth-friendly society and industry

As you all know, the management strategy that maintains the global environment is the most urgent and urgent task for us, for the future of human civilization. An effective approach to this end is to use IT and data infrastructure to coordinate and operate all economic activities beyond individual organizations. In today's global economic system, each organization operates independently based on the principle of economic efficiency, and as each organization expands its profitability and business scale, it tends to generate material loss and energy loss. I'm here. What we should do from now on is to reduce the various losses (waste) that occur while promoting economic growth. It is to create a society and industry that is friendly to the global environment and is well-being.

This council will focus on CPS (*1) and the possibility of data sharing, and promote social implementation of a new system that utilizes process simulation and AI to perform overall optimization beyond the organization. The aim is to promote the reduction of GHG emissions through restructuring of business processes and sharing of supply chain data, etc., and to accelerate behavioral change in the industrial world.

Here, we use process simulations to obtain evaluation indicators such as GHG (*2) emissions, accumulate GHG emissions data, convert it into data, use it mutually, and integrate and link various organizations and business categories. We will promote the construction of an operational system to promote overall optimization of GHG emissions, and the dissemination of an educational system that encourages individual behavioral changes in related organizations and promotes awareness reforms.

The industry as a whole cannot be lean (*3) just by accumulating individual organizational activities, and a direct connection between the workplace and management is essential. It is effective to use CPS to optimize collaborative activities after designing the ideal state through process simulation that links the workplace, management, and different types of work. Through "designing carbon neutrality", we explore the possibility of realizing a well-being society by balancing environmental issues and growth potential.



1. CPS (Cyber Physical System): A system for optimal management of the desired value by integrating and operating disparate data and systems.
2. GHG (Green House Gas): Gases that cause global warming, such as carbon dioxide, methane, nitrous oxide, and CFCs.
3. Lean: A lean and muscular management system.

Purpose and activities of the establishment of the council

In order to realize this background and aim, we believe that it is important to develop collaborative activities of multiple organizations centered on core technology, and decided to establish a general incorporated association that gathers the knowledge of industry, academia, and government. I was. Here, we will work together to formulate a new green strategy and work with stakeholders to disseminate it widely in society.

Academic experts on carbon neutrality, circular economy, production systems, etc., manufacturing industry, telecommunications, electric power, construction, logistics, finance, consulting firms, etc., as well as participation from the government side and overseas public institutions. We plan to disseminate it as an activity to build the future society.

The aims of the Council's activities are listed below.

- design carbon neutral
By changing from the conventional "calculation from phenomena" activities and enabling GHG evaluation based on business system and operation design, we will clarify measures to reduce GHG emissions in the field reform activities. can do.
- Able to correctly evaluate and reflect on-site efforts and corporate efforts

In addition to evaluating the results, you will be asked what kind of measures you have taken to achieve the results and what kind of efforts you have accumulated. By designing specific on-site activities for that purpose and leaving results, and by clarifying those activities, it will lead to the evaluation of the company's efforts.

- Aggregate GHG emissions, compile data, and promote mutual use

We aim to create a framework that contributes to the reduction of GHG by having each participant accumulate GHG emissions data in Japan and overseas, aggregate and improve their own knowledge, and disseminate and mutually use it.

- Development of CPS to promote overall optimization of GHG emissions

We will promote activities to build various collaborative applications on the "green CPS platform" that builds CPS. Here, we will also provide support functions for integrating and optimizing GHG emissions and economic efficiency, and promote the construction and spread of foundations for a sustainable society. We will proceed with examination of CPS application toward the implementation of digital twins, circular economy and social CPS.

- Provide a place for each organization to learn and support their improvement

In the subcommittee of this organization, you can understand the activities of each company and gain a place to share knowledge and learn in order to lead to further reforms of participating companies.

- Foster environmental awareness among employees

One of the aims of this activity is to foster awareness of environmental issues. Rather than simply achieving the goals given, we will promote education to understand experientially why we have to do what we have to do and how we can produce output. By cultivating awareness with a sense of gaming, we would like to spread the ability to take action to address social issues.

We are looking forward to the participation of many companies and organizations.



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