

CHIYODA CORPORATION

Summary of technology and advantages

In EPC projects which hold complex constraints and issues, optimal solutions have been provided by connecting optimal technologies from around the world. With this capability to integrate various technologies, Chiyoda Corporation contributes to build the advanced social infrastructure that combines the elemental technology of industrial equipment and digital technology. Followings are example of technologies for decarbonization.

1. SPERA HYDROGEN: Hydrogen is chemically reacted with toluene (TOL) to convert it to methylcyclohexane (MCH), and hydrogen is safely stored and transported at normal temperature and pressure. Since both MCH and TOL are stable liquids at normal temperature and pressure, they are easy to handle and can use existing oil distribution infrastructure.

2. Large storage battery: Constructing the world's largest storage battery system which leads to expansion of renewable energy.

Furthermore, in remote islands, the battery system allows both energy independence and the environmental sustainability.

