Mosdar, Mitsubishi Chemical Group and INPEX Explore Setting Up World’s First Commercial-Scale Polypropylene Production Using Green Hydrogen and CO2

- Flagship UAE and Japanese firms join forces to explore setting up world’s first commercial-scale polypropylene production in Abu Dhabi
- Signing witnessed by HH Sheikh Hamed bin Zayed Al Nahyan, Member of the Abu Dhabi Executive Council, and Japan’s Prime Minister, HE Fumio Kishida, during Japan-UAE Business Forum in Abu Dhabi
- In line with UAE hosting COP28, collaboration displays UAE’s highly renewable energy company’s commitment to forging global partnerships to advance green hydrogen development towards net-zero future

Abu Dhabi, July 18, 2023: Abu Dhabi Future Energy Company PJSC – Mosdar, the UAE’s clean energy powerhouse, Mitsubishi Chemical Group Corporation (MCG) and INPEX CORPORATION signed an agreement to explore production of the world’s first commercial-scale polypropylene made from CO2 and green hydrogen in Abu Dhabi. The green hydrogen and CO2 will be converted to a methanol which will subsequently be converted to propylene and polypropylene.

The execution of the agreement was announced during the Japan-UAE Business Forum, in Abu Dhabi, attended by HH Sheikh Hamed bin Zayed Al Nahyan, Member of the Abu Dhabi Executive Council, and Japan’s Prime Minister, HE Fumio Kishida. The three companies will investigate the techno-economic feasibility of a commercial-scale green hydrogen to e-methanol and polypropylene project.

Mosdar’s CEO, Mohammed Jameel Al Ramahi, said, “We are very excited to be partnering with flagships Japanese companies, Mitsubishi Chemical Group and INPEX. Our organizations share a firm belief in the power of innovation to create a better tomorrow. Today’s agreement will enable us to join forces and further unlock the potential of green hydrogen to drive industry and growth with its reducing emissions.”

Mitsubishi Chemical Group’s CEO, Jean Marc Girault, said, “The chemical industry is now faced with the dual challenge of reducing its GHG emissions, while actively participating and leading the transitions to a carbon-neutral economy. With that focus in mind, we ambition to use CO2 as a key starting raw material in a very important stepping stone towards a sustainable future and we are looking forward to use our expertise to contribute to the success of this project.”

INPEX President & CEO Takayuki Ueda, said, “We look forward to working together with Mosdar and MCG to pursue a green hydrogen to e-methanol and polypropylene supply chain linking the UAE and Japan. This initiative is fully aligned with our de-carbonization efforts as well as our long-term commitment to Abu Dhabi, which is one of our core business areas. We hope to leverage this opportunity to enhance our clean energy solutions and help realize a net-zero society by 2050.”

Polypropylene, a type of plastic material, is used to manufacture everyday items such as bottles, jars and food packaging. E-methanol, which will also be produced by the project, is a key synthetic fuel that can be used to decarbonize maritime transportation. By developing the project, Mosdar, MCG and INPEX aim to support hard-to-abate sectors including the maritime sector and industries to reduce their carbon footprints.

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About Mosdar

Mosdar Future Energy Company (Mosdar) is the UAE’s clean energy champion and one of the largest companies of its kind in the world, advancing the development and deployment of renewable energy and green hydrogen technologies to address global sustainability challenges. Established in 2006, Mosdar is today active in over 40 countries, helping them to achieve their clean-energy objectives and advance sustainable development. Mosdar is jointly owned by Abu Dhabi National Oil Company (ADNOC), Masdar Investment Company (Midhat), and Abu Dhabi National Energy Company (TAQA), and under this ownership the company is targeting a renewable energy portfolio capacity of at least 10 gigawatts (GW) by 2030 and an annual green hydrogen production capacity of up to 1 million tonnes by the same year.

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This material is distributed by Daniel J. Edelman, Inc. on behalf of Mosdar. Additional information is available at the Department of Justice, Washington, DC.
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Joint Feasibility Study for Carbon Recycle
Chemicals Project in Abu Dhabi, UAE