

January 28, 2019

To the Press

Mitsubishi Estate Co., Ltd.

Clean Planet Inc.

Mitsubishi Estate Invests in Clean Planet toward Commercialization of New Hydrogen Energy

- collaboration to realize a sustainable global community through a revolution in clean energy technology -

Mitsubishi Estate Co., Ltd., in Tokyo, has subscribed to newly issued shares of Clean planet Inc., in Tokyo, through a third-party allotment of new shares on January 25, 2019 – a clean tech venture company that is developing "New Hydrogen Energy" with the aim of realizing a clean energy global society.

Mitsubishi Estate's basic mission is to "create a truly meaningful society through urban development" and has set the goal of "establishing a position as a leading company in terms of ESG (Environment, Society, Governance), and improving harmony with stakeholders and corporate value." The company is also promoting efforts to achieve the SDGs (Sustainable Development Goals). Mitsubishi Estate believes that the low-cost and environmentally-friendly hydrogen energy technology that Clean Planet is developing holds great promise in reaching these goals and reducing the Mitsubishi Estate Group's CO₂ emissions. Mitsubishi Estate has been promoting the creation of low-carbon cities through efforts such as developing and operating highly energy-efficient buildings and implementing district heating and cooling projects. Going forward, in addition to its efforts so far, the company will proceed with urban development that leads to a low-carbon society by proactively considering the utilization of clean energy.

Clean Planet is a venture company that undertakes R&D into new forms of clean energy that are "safe, stable, and low-cost" in order to create novel innovations in the energy industry for social infrastructure. Clean Planet's research lab is located at the "Condensed Matter Nuclear Reaction Division" within the Research Center for Electron Photon Science at Tohoku University. The research lab was founded jointly with the university in 2015. The company is working on the development and commercialization of "New Hydrogen Energy" which gives enormous energy output per hydrogen unit compared with conventional hydrogen energy, aiming to make electric power at 1/10th of the cost of current existing technologies. The company will continue to work on realizing sustainable social infrastructure by distributing "New Hydrogen Energy" globally as a new type of clean energy for a CO₂-free world.

With this capital alliance, the Mitsubishi Estate Group and Clean Planet will create sustainable global community with the new clean energy and will contribute to the creation of human-friendly cities.



The Clean Planet & Tohoku University Team conducting R&D in the lab

Mitsubishi Estate Co., Ltd. Company Profile

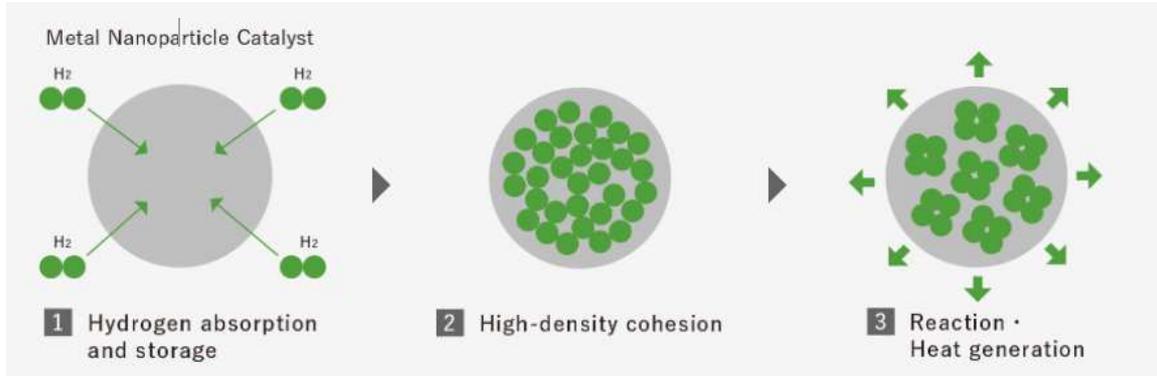
Head Office	: 1-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8133, Japan
Establishment	: May 1937
Capital	: ¥142,023 million (as of May 25, 2018)
Business Areas	: Development, leasing, and management of office buildings and retail properties; development and asset management of real estate for revenue; development and sale of residential land, industrial land, etc.; management of leisure facilities, etc.; buying and selling of real estate; brokerage ; consulting
Number of Employees	: 806 Consolidated: 8,856 (as of March 31, 2018)
Representative	: Junichi Yoshida, President & CEO
Website URL	: http://www.mec.co.jp/index_e.html

Clean Planet Inc. Company Profile

Head Office	: 1-2-3 Kaigan, Minato-ku, Tokyo, Japan
Establishment	: September 2012
Capital	: ¥456.6 million (plus, Capital Surplus of ¥351.1 million)
Business Areas	: Research, development and sales of products using clean energy and environmental technology
Number of Employees	: 5
Representative	: Hideki Yoshino, President & CEO
Website URL	: http://www.cleanplanet.co.jp/en/

Reference

Innovative mechanism for new hydrogen energy ("New thermal reaction between metals and hydrogen")



(Source: NEDO "Energy and Environment New Technology Leadership Program 2017")

When hydrogen is occluded in ultrafine metal particles (metal nanoparticle catalyst) and caused to interact by adding stimuli under certain conditions, thermal energy that is several orders of magnitude larger than the usual combustion reaction per gram of hydrogen is released without any CO₂ emissions. The unique method developed by the Clean Planet and Tohoku University team incorporates many unique proprietary technologies in the reaction parts of the metal nanoparticle catalyst, which is the main element that supports the heat generation phenomenon.