

FOR IMMEDIATE RELEASE:

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NEWS RELEASE

"GEI and J-POWER Start Feasibility Study Project on Integrated Business of Biofuel and Green Chemical Production utilizing Oil Palm Tree Waste in Thailand"

Green Earth Institute Co., Ltd. ("GEI") and Electric Power Development Co., Ltd. ("J-POWER") have concluded a research contract on the pellets production using waste of oil palm trees ("OPT") to realize an integrated business combining of green chemicals and biofuels production.

Getting this agreement, GEI with its own unique biorefinery technology and J-POWER which aims to reach the carbon-neutral goal in 2050 in "J-POWER 'BLUE MISSION 2050'" will jointly explore an integrated business opportunity utilizing OPT.

Palm oil is the most widely used vegetable oil in the world for food, detergents, and cosmetics. Due to its lower price and higher yield compared to other vegetable oil, its demand and production are increasing year by year, and global production volume is estimated to exceed 79 million tons in 2022. *¹

Oil palm trees in plantations that support such enormous global demands are regularly replanted to maintain the yield of palm fruits, and a large amount of OPTs are discarded every year. Normally, OPT is shredded and then, landfilled in plantations directly. Since improper treatment of OPT should not only trigger the greenhouse gases, but cause pests infestation in the region, the improvement of OPT utilization is urgently required.

In this survey, GEI and J-POWER will conduct a feasibility study to utilize the squeezed water from OPT as a raw material for chemical production and the fiber portion of OPT for fuel production to generate more profit. These new business initiatives can effectively utilize OPT, which has been discarded so far, and realize upcycling into biofuels and high-value-added chemicals. It is expected to contribute to the proper development of the palm oil industry all over the world.

GEI has been working to solve various global problems under its management philosophy (mission) of "Fostering Green Technology and Walking with the Green." for the realization of a decarbonized society.



*1 [US Department of Agriculture "World Markets and Trade"](#)

GEI is listed on the Tokyo Stock Exchange.

Corporate Website: <https://gei.co.jp/en/>
