

FOR IMMEDIATE RELEASE:

Tuesday, August 18th, 2026

NEWS RELEASE

GEI Commences Construction of Demonstration Plant to Realize the “Mid- to Long-Term Vision”

~Accelerating Advancement for the Wood-based Bioethanol Commercial Production~

Construction of Green Earth Institute Co., Ltd. (“GEI”)’s demonstration plant (“the Plant”) within Mitsui Chemicals’ Inc. Mobara Plant (Mobara City, Chiba), adjacent to GEI’s Biofoundry Center, will commence following a safety prayer ceremony held on August 17, 2026 at Tamasaki Shrine (Ichinomiya City, Chiba). The Plant is part of the bioethanol production project that utilizes biomass derived from wood pulp, which GEI is collaborating with Daio Paper Corporation (“Daio Paper”) under the NEDO “Bio-Manufacturing Revolution Promotion Project”.

The Plant will feature a continuous simultaneous saccharification and fermentation (continuous SSF) system centered on a fermenter with a maximum capacity of 5-kiloliter and is scheduled to begin operation in 2027. Based on the operational data and insights accumulated through the bench-scale tests initiated in March 2025, GEI will develop the core process technologies and conduct scale-up validation for commercial production.

Once operational, the Plant will represent a significant milestone defined in GEI’s Mid- to Long-Term Vision (“the Vision”), announced in July 2026^{※1}. It will mark the commencement of “Semi-commercial” operations, which refer to demonstration-scale facilities that bridge the gap between research and development and full commercial production. This milestone is a concrete step forward in GEI’s business growth. GEI plans to drive the commercialization of wood-based bioethanol through these “Semi-commercial” facilities, serving as the first and foundational stage of this pathway.

Through the demonstration activities conducted at the Plant, GEI will steadily reduce commercialization risks, pave the way for the realization of a future commercial-scale plant, and thereby advance the “Biofuel Energy Revolution” outlined in the Vision.

※ 1 GEI related News Releases in the past are as follows:

GEI News Release dated July 15th, 2026:

[Notice Regarding Formulation of Mid- to Long-Term Vision](#)

GEI News Release dated July 8th, 2026:

[GEI Achieves 34 Consecutive Days of Operation Using a Continuous SSF Process for Bioethanol](#)

Production
