

Sustainable Aviation Fuels (SAF)

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Development of Algae-Based Bio Fuel

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*This development includes the results of the "Strategic Development of Next-generation Bioenergy Utilization Technology Project" and "Development of Production Technologies for Biojet Fuels Project" commissioned by the New Energy and Industrial Technology Development Organization (NEDO).

*NEDO: Governmental organization in Japan



We obtained ASTM approval as D7566 Annex7 HC-HEFA
Under coordination for determining process of LS_f** value

* This strain of *Botryococcus braunii* is owned by GGT Corporation founded by Taira Enomoto

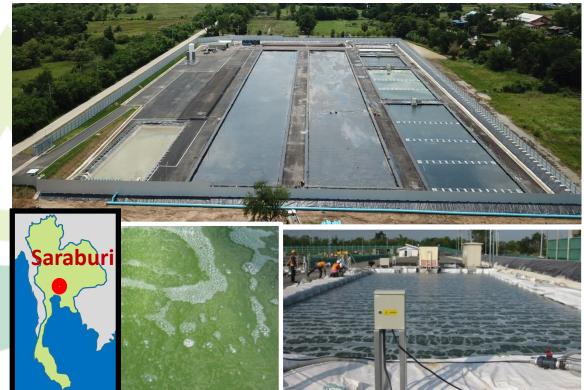
**CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels

Scale up test \sim Cultivation \sim

We achieved HGBb stable cultivation in 1,500m⁴ outside openpond in 2015

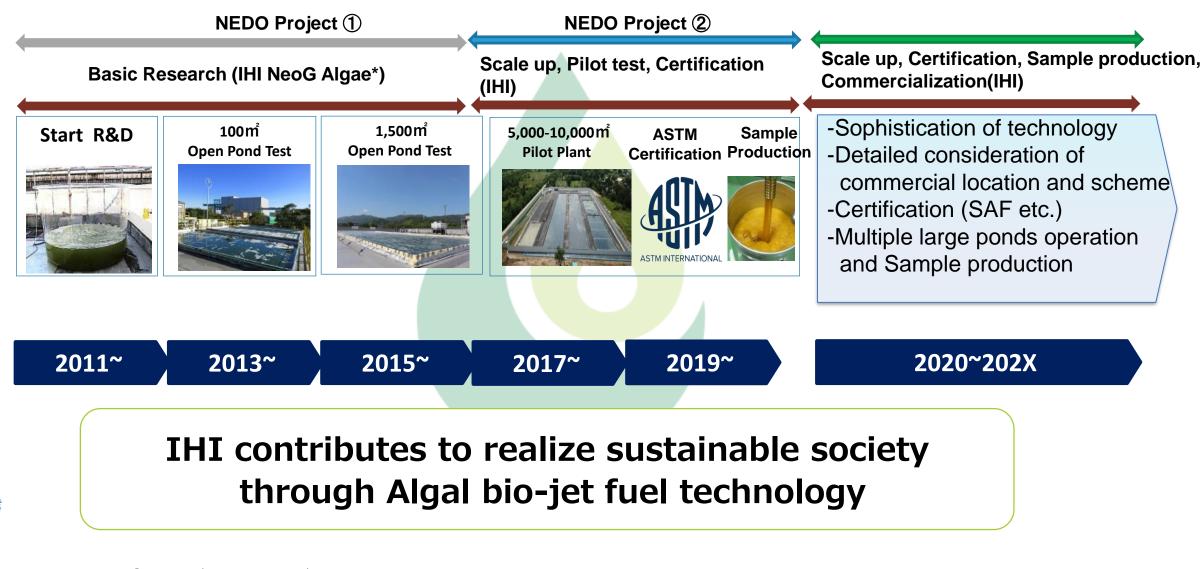


- Large scale cultivation tests are ongoing at Pilot in Thailand constructed in 2017.
- Total area of ponds is 15,000m².



Now on testing for large scale production in Thailand

Development - history and future-



*IHI NeoG Algae(2011~2016)

Limited liability company established by IHI Corporation, GGT Corporation and Chitose Laboratory Corp.

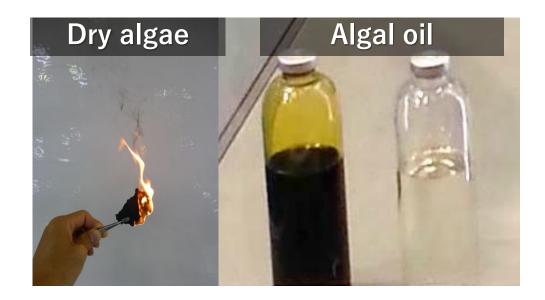
CAO STOCKTAKING 2020

Sustainable aviation fuel produced from Microalgae (*Botryococcus Braunii*)

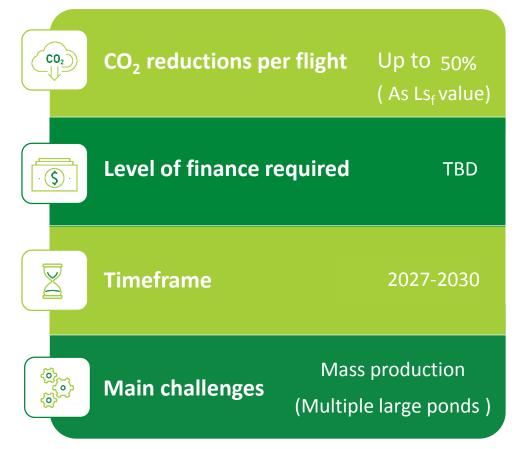
Aviation Fuels

Feedstock type	Conversion process
Micro Algal oil	Hydro-processing
(Hydrocarbons, esters and fatty acids)	(Annex7 HC-HEFA process)

Main characteristics: Rich oil content in algae and high affinity for established HEFA process







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Thank You

