Biomass Energy

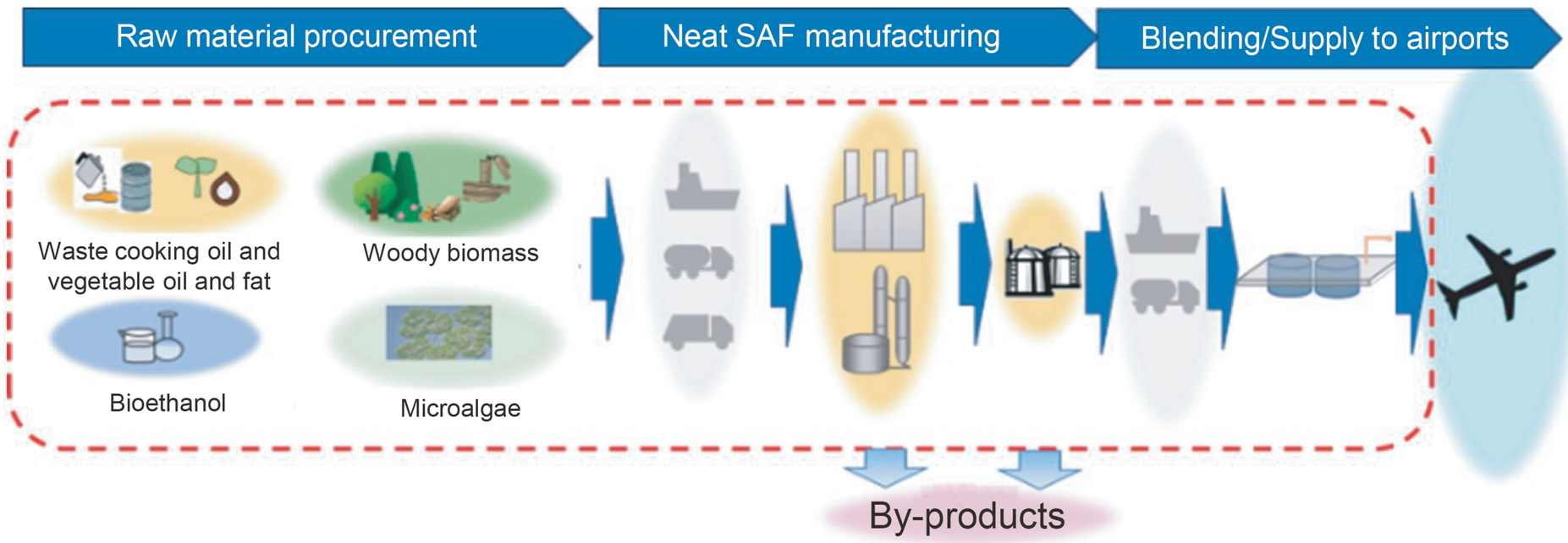
Biojet fuel production technology development project

NEDO aims at practical application of SAF (Sustainable Aviation Fuel) by around 2030.

Establishment of a supply chain model through demonstration

NEDO will develop technologies to establish a supply chain up to manufacturing and supply of SAF, aiming at practical application by around 2030.

NEDO has worked on establishment of a supply chain toward the practical application of SAF, from the procurement of diverse raw materials such as waste cooking oil, vegetable oil and fat, bioethanol, woody biomass, and microalgae, to the demonstration of each conversion process to neat SAF, securing of fuel quality until delivery to airports, and establishment of a supply system.



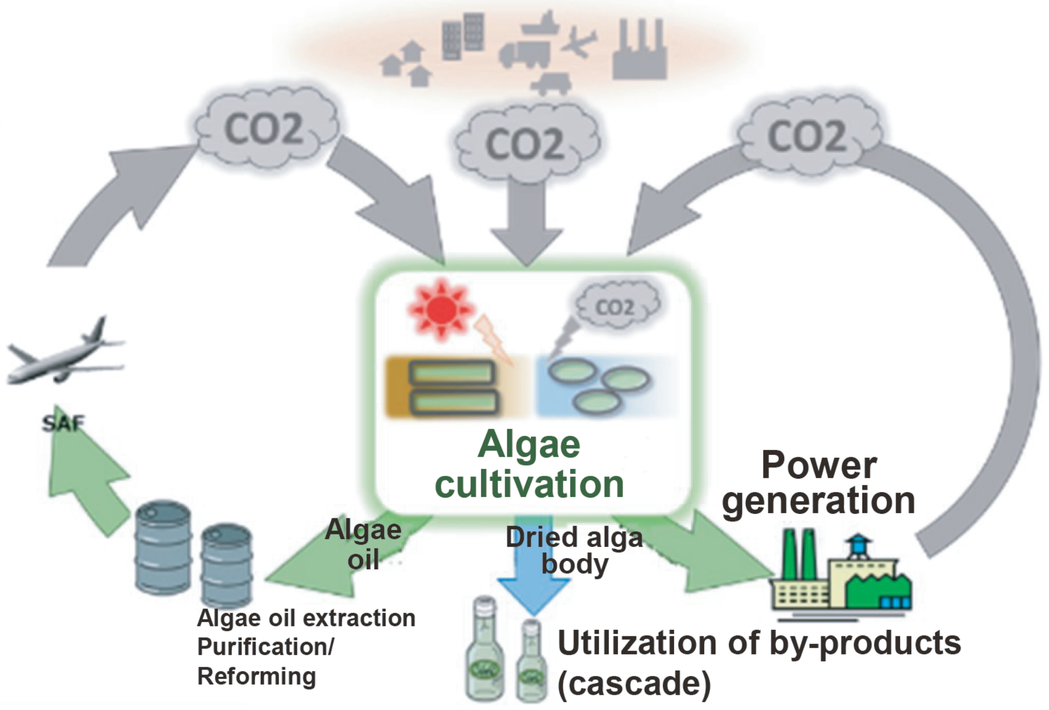
Development of the microalgae base technology

NEDO aims to set the standard conditions for cultivation and analysis and establish stable mass cultivation technologies for microalgae, which are used as raw materials of SAF and in a carbon recycling technology.

NEDO is working on mass cultivation demonstration for the selection, breeding, and diverse cultivation methods of microalgae. In addition, NEDO has established a research center which can acquire empirical data on algal species and cultivation conditions and will standardize cultivation and analysis conditions.

Microalgae base technology research center Provided by the Institute of Microalgal Technology, Japan

Algae-based carbon recycling



Flow of the microalgae carbon recycling technology