

List of selected R&D projects, project managers, and implementation system

○CO₂ absorption through biomass: Technology to artificially accelerate CO₂ absorption through plants capable of absorbing massive amounts of CO₂

R&D Projects	Project Managers	Implementation System
Redesign of macroalgae for highly efficient CO ₂ fixation by functional modifications and their product generation	Dr. UEDA Mitsuyoshi, Kyoto University	Kyoto University Mie University Green Earth Institute Co., Ltd Kansai Chemical Engineering Co., Ltd.
Development of next-generation CO ₂ -fixing plant through the gene optimization, distant hybrid, and microbial symbiosis	Dr. MITSUDA Nobutaka, National Institute of Advanced Industrial Science and Technology (AIST)	National Institute of Advanced Industrial Science and Technology (AIST) Tokyo Metropolitan University Sumitomo Forestry Co., Ltd.
Agrobiotechnological Direct Air Capture towards Carbon Circulation Society	Dr. YANO Masahiro, National Agriculture and Food Research Organization (NARO)	National Agriculture and Food Research Organization (NARO) Nagoya University Tokyo University of Agriculture and Technology The University of Tokyo Kyoto University Shinshu University The Institute of Physical and Chemical Research (RIKEN) Saitama University Asahi Agria Co., Ltd. The University of Shiga Prefecture

○CO₂ absorption through carbonatization: Technology to artificially accelerate weathering of cracked and scattered rocks, such as basalt

R&D Projects	Project Managers	Implementation System
Advanced enhanced rock weathering (A-ERW) technology actively combined with site characteristics	Dr. NAKAGAKI Takao, Waseda University	Waseda University Mitsubishi Heavy Industries Engineering, Ltd. Hokkaido University Kyoto Prefectural University
Feasibility study of enhanced mineralization based on LCA/TEA platform	Dr. MORIMOTO Shinichirou , National Institute of Advanced Industrial Science and Technology (AIST)	National Institute of Advanced Industrial Science and Technology (AIST) The Institute of Physical and Chemical Research (RIKEN)