

**DEVELOPMENT OF GREENHOUSE-GAS SINK/SOURCE CONTROL
TECHNOLOGIES THROUGH CONSERVATION AND EFFICIENT MANAGEMENT
OF TERRESTRIAL ECOSYSTEMS**

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New technologies to support the Japanese Global environmental policy opinion should be developed, targeting the term after the Second Commitment Period of the Kyoto Protocol. Among the possible technologies, GHG sink/source control through conservation and efficient management of terrestrial ecosystem is promising because of its large potential impact on GHG concentrations, low cost and high reliability and applicability before the establishment of soft energy systems that rely only on renewable energy resources. However the technical background needed to make such systems, such as basic technologies and scientific knowledge, is still insufficient.

We started a five year project in 2004.

In the project, three typical ecosystems are being studied: 1)forestry, 2) tropical wet land, and 3) artificial agricultural (i.e., cultivated, slash-and-burn, agricultural, and cattle lands).

The current state of the project will be presented.