

## **Outline of R&D for Biomass Energy in CRIEPI**

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### **Abstract**

The biomass is expected as one of the promising energy that can solve the environmental problem such as global warming. "Biomass Nippon Strategy (Biomass Japan synthesis strategy)" was proposed to promote the use of the biomass by Japanese government, and the RPS (Renewable Portfolio Standard) System was enforced in Japan in April 2003. In order to promote a recycling society with a low impact on the environment with municipality and to support the RPS system using biomass energy, CRIEPI is promoting the research on the biomass potential and on the biomass utilization technology. The support system for biomass energy business plans based on GIS (Geographical Information System) was developed, and this system provides both the domestic distribution map for 15 types of biomasses and the estimation of biomass transportation costs. CRIEPI is in the process of R&D of the effective biomass utilization technology, such as coal co-firing technology, advanced pretreatment & pyrolytic-gasification technology, and biomass carbonization-gasification technology, and these technologies provide the effective solutions for RPS system and contribute to the promotion of the recycling society. In this paper these research results and current statuses of R&D in CRIEPI are introduced.