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n order to suppress greenhouse gas emission and avoid global warming, utilization of biomass energy as a substitute for fossil fuels has attracted attention in recent years due to its renewability and carbon neutrality. Biomass gasi cation and pyrolysis has been investigated as one of the technologies for e ciently utilization of biomass energy. However, gasi cation characteristics of biomass varies according to the types of that. It is necessary to clarify the gasi cation characteristics of biomass due to practical use of various biomass. Here, the e ects of various biomass on gasi cation behaviors are discussed in this study, pyrolysis and gasi cation experiments were carried out using a batch type tubular reactor. Cedar and cypress of coniferous trees, eucalyptus of hardwood and bamboo of grass-type biomass were used as biomass feedstock. ese biomas were pulverized and sieved to 0.5 to 1 mm. e sample was put on the ceramics boat and installed in the reactor. e reaction temperature was electrically controlled and set from 600 to@@@ reaction atmosphere was inert only or both inert and steam, and the products were removed from the reactor by carrier gases. e experimental results showed that each biomass species had a di erent characteristetnt c5 (s)llenac8ioma6 (l)73)A(r)1gF.-5 (ra)13 (e)-6 (ac)-7 ()-6 (ac)-7 nct2g10

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