

What Kinds of HVAC Technology Could Improve Energy Efficiency in Japan? Gas CHP or Advanced Heat Pump System?

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The technological innovation would lead to a structural change in future energy market. The gas cogeneration system and advanced heat pump system are recognized as key technologies to reduce carbon emission. We have developed a bottom-up energy demand model based on customer (Bs preference to assess the impact of penetration of innovative energy technologies. As a case study, we focused on HVAC demand in Japanese commercial sector and estimated the potential reduction of carbon emission in 2010.

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