Environmental plant firm Takuma Co. (TSE:6013) has won a 4 billion yen ($36 million) order from a public-private partnership in China to build a trash incineration plant in Beijing. Soon to be the largest municipal waste-to-energy facility in China, GSE is constructing a municipal solid waste (MSW) incinerator in Gao-an-tun (Beijing) at an existing municipal landfill site, and plans to operate this and other MSW incineration facilities in similarly large cities with limited space for landfills.

Utilizing a mass burn technology successfully applied in Japan, the 1,600 ton per day Gao-an-tun incinerator will generate 30 MW of electricity [approximately 450-500 kWh/ton] that will be sold on the local power grid. The government of Beijing is responsible for collecting and delivering waste to the facility. Bottom ash and fly ash residues will be disposed at the adjacent landfill. At Gao-an-tun and other MSW waste-to-energy facilities, air emissions will be controlled by GSE to meet Chinese standards by a combination of operational features and air pollution control equipment. In addition to MSW incineration facilities, GSE is constructing a medical waste incineration facility at the Gao-an-tun site. Widely used for the effective treatment of hazardous wastes, the technology employed by this facility includes rotary kiln incineration with two combustion chambers followed by appropriate air emission control equipment. Operated properly, this facility will be able to achieve the most stringent international emission standards, including those of the World Bank Group.