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JFE Engineering was awarded a contract to construct the Tobu Clean Center by Tokorozawa City, Saitama Pref. in June 2000 and completed its construction at the end of Mar. 2003.

An up-to-date fue gas treatment system adopted in this facility satisfies extremely strict environmental standards. In particular, the emissions of dioxins are suppressed to a level below one-tenth of the legal requirement. In addition, the facility employs a highly efficient power generating system, ash melting system, and recycling system that can recover useful resources from waste. Thus, this is a comprehensive waste incinerating and recycling facility that aims at minimizing environmental loads.

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Incineration Furnace:

JFE hyper grate furnace, 115 t/d × 2 units

Boiler: Single-drum, natural-circulation-type waste heat boiler, 2 units

Maximum evaporation volume 18.9 t/d
(4.0 MPa, 400°C)

Steam Turbine: Condensing-type steam turbine

Power generating capacity 5 000 kW
(2 500 kW × 2 units)

Flue Gas Treatment System: Filtering dust collector

Wet-type fue gas treatment unit

Activated-carbon adsorpeatElectric-type, melting capacity 30 t/d



Photo 1 A view of Tobu Clean Center

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In the future, waste treatment facilities will be required to be more harmonious with the local com-

munity, larger in scale for improving the recycling efficiency, and better at meeting the environmental standards that will inevitably become even more strict.

The Tobu Clean Center shown in **Ognsn 0** is an example of a modern urban-type waste incinerating and recycling facility.

We express our gratitude to related personnel of Tokorozawa City for the cooperation and guidance extended to us during the course of constructing this facility.

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Environmental & Recycling Plant, Construction Dept.,
JFE Engineering
Phone: (81) 45-505-7685 Fax: (81) 45-505-7618