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Tokyo Toshi Service Company Receives Two Awards in Energy Conservation Grand Prize

Itochu Enex Co., Ltd. (headquartered in Minato-ku, Tokyo; Kenji Okada, Representative Director; hereinafter “Itochu Enex”) is pleased to announce that Tokyo Toshi Service Company (headquartered in Chuo-ku, Tokyo; Takeo Fukushima, Representative Director; hereinafter “TTS”), a member of the Enex Group led by Itochu Enex, will receive both the Minister Prize of Economy, Trade and Industry and the Chairman Prize of the Energy Conservation Center, Japan (hereinafter the “ECCJ”) from the ECCJ. The awards are in the energy conservation cases category of the 2016 Energy Conservation Grand Prize sponsored by the ECCJ, and are in recognition of TTS initiatives for energy conservation at two regional heat supply centers under its management.

The Energy Conservation Grand Prize is aimed at encouraging efforts to raise awareness for energy conservation, popularize energy conservation products, develop energy conservation industries and build an energy conservation-oriented society by universally sharing the activities of business operators that are promoting energy conservation in Japan and that have developed products that excel in energy conservation through their announcements. It also commends business operators that are pursuing excellent initiatives. The ECCJ awards this Prize each year with the support of the Ministry of Economy, Trade and Industry (METI).

The details of TTS initiatives for energy conservation in two districts that received the Prize this year are as follows:

1. Initiatives in the Hakozaki District (Minister Prize of Economy, Trade and Industry (in the operations category))

“Attempts to conserve energy and further level loads at the Hakozaki Heat Supply Center by making the most of renewable thermal energy”

(TTS, Nikken Sekkei Research Institute and TEPCO Energy Partner, Incorporated)

The Hakozaki District Heat Supply Center (Chuo-ku, Tokyo) has been supplying heat to a district under

its coverage since 1989 with the first high-efficiency heat pump and thermal storage system in Japan, using river water taken from Sumida River (renewable thermal energy*1).

More than 20 years have passed since this facility began supplying heat. TTS and its partners attempted to conserve more energy and level loads further, harnessing the data and technological capabilities they had accumulated through the course of the facility's operation as part of their renewal plan for various types of equipment.

Through the initiatives, the plant efficiency for this facility improved and reached the highest level in Japan (efficiency rose 30% compared with the pre-improvement level). The initiatives substantially leveled loads at the same time.

In the latest commendation, the ECCJ found that the initiatives produced great energy conservation results in areas including the following:

- Establishment of technologies for using renewable thermal energy through the reviews of a system for using river water
- Normalization of the capacity of a heat supply facility and simultaneous efficiency enhancement for the facility
- Greater leveling of loads through the reviews of a thermal storage system

*1 Renewable thermal energy: It is a generic term for heat, such as river heat, solar heat, underground heat, atmospheric heat, heat from hot springs and heat from snow and ice.

2. Initiatives in the Kyobashi 1-Chome and 2-Chome District (Chairman Prize of ECCJ)

“Initiatives for conserving energy through the linkage of a building and a zone in the Kyobashi 1-chome and 2-chome district)

(Shimizu Corporation and TTS)

TTS and Shimizu Corporation aimed at substantially raising the efficiency of primary energy use at the Kyobashi 1-Chome and 2-Chome District Heat Supply Center (Chuo-ku, Tokyo) by linking the Center with an energy conservation building Shimizu Cooperation planned to build as its headquarters at the site where the plant was scheduled to be established. As a result, the plant efficiency for the Center reached the highest level in Japan.

TTS and Shimizu Corporation set up the Kyobashi Smart Community Council in 2013. They acquired ISO50001, an international certification for environment, and ISO22301, a certification for business continuity, on a district basis, a first for Japan. As these initiatives suggest, TTS and Shimizu Corporation took steps to better conserve energy and improve business continuity on a district level.

In the latest commendation, the ECCJ evaluated that the two companies' initiatives produced great energy conservation results in areas including the following, in addition to their approaches on a district level stated above.

- Introduction of the latest environmental technologies to the Shimizu Corporation Head Office Building (including radiant heating and cooling, desiccant air-conditioners and hybrid exteriors) and their efficient application
- Enhancement of the efficiency of heat use at the TTS heat supply plant linked with the Building (including waste heat produced by air-conditioners)

In local heat supply, TTS has promoted energy conservation, carbon dioxide reduction and leveling of loads over the years through steps that include the introduction of heat pumps and thermal storage systems, the practical use of unused energy sources, such as river water, treated sewage, well water and waste heat discharged by electrical substations, efficient facility operation and equipment renewals. With the awards received on this occasion as a step, TTS will continue its efforts with the understanding and cooperation of its customers.

The commendation ceremony and presentation for the awards will be held on February 15, 2017 as part of the ENEX 2017/ Smart Energy Japan /Energy Supply & Service Showcase (to be held at the Tokyo Big Sight East Hall 1-2 for the 41st time from February 15 to February 17, 2017). TTS will also introduce its initiatives in detail at its booth and the space for the Energy Conservation Grand Prize awards during the exhibition.

* Related websites (These links redirect to Japanese sites)

Tokyo Toshi Service Company: <http://www.tts-kk.co.jp/>

The Energy Conservation Center, Japan: <http://www.eccj.or.jp>

2016 Energy Conservation Grand Prize winners: <https://www.eccj.or.jp/bigaward/winner16/index.html>