

COMPLETION REPORT

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OSAKI - DEPOK SISTER CITY:

Evaluating Osaki System Replication and its Contribution to SDGs Achievements in Depok City, Indonesia.

OSAKI SYSTEM is a city waste management system based on ‘community-based recycling’ which was successfully developed by Osaki City, Japan. This system, which integrates environmental conservation with social and economic development, has gradually succeeded in increasing the recycling rate from 0.8 percent (1998) to 54.3 percent (2002), later to 80 percent (2006) and 83 percent in 2017, and succeeded in increasing the sustainability of the use of landfill site for the next 50 years. Not only does this system provide economic benefits for its residents and city government such as in the form of sales of recycled products, the compost produced and the jobs it creates, but socially, this system has created a healthy environment, increased the participation of all residents especially women and children, and became a medium for learning environmental issues for school age children through school curricula and practices at home. For this successes, in 2018 Osaki City received the "Deputy-chiefs' Japan SDGs Award" from the Chief Cabinet Secretary as the city with the highest recycling rate in Japan for 12 consecutive years since 2006, and in 2019, Osaki City was also selected as the “SDGs Future City”.

OSAKI SYSTEM was then replicated by Depok City, Indonesia through a collaboration between Osaki and Depok from 2012 to 2015, with the **intermediate outcome** of the development of a ‘community-based recycling society’. This study aims to identify the development of the ‘community-based recycling society’ in Depok and its sustainability after almost ten years of replication, by observing ‘the growth of the recycling rate’ which will further **impact** the ‘sustainable usage of landfill site’, as part of the **interventions** done by the city of Depok, particularly the recycling activities in trash banks and UPS (trash processing units - TPUs). Since this replication program involves many stakeholders, such as unit and main trash banks, coordinators at urban village and sub-district levels, TPUs, private sectors, and city governments, this study is carried out using the participatory methods.

This study finds that the achievement of a 4 percent recycling rate illustrates that the ‘community-based recycling society’ has been growing but is not yet effective enough to reduce the usage of landfill site, which still holds 96 percent of the total volume of trash. The number of trash banks formed is not adequate to be able to sort out all the existing potential for inorganic trash and the composting done at TPUs is still very limited. Considering these results, it is difficult for Depok City to improve their achievements in SDGs as this can be realized by its partner, Osaki City. This is further worsened by the city government that positions themselves as a service provider that focuses on transporting mixed trash from households to landfill site, instead of in a participatory way strengthening the community-based recycling society that is growing. This tendency, supported by policies and budgeting, is expected to threaten its sustainability. This study further concludes that the replication of the Osaki System is applied without any adjustment, “adopt without adapt”, where the difference between Osaki as a small city and Depok as a big city do not receive major attention. In order to return the replication target on its track, namely to create a ‘community-based recycling society’, some adjustments need to be made; for instance, the replication can be done in steps starting from urban villages to city level, or selecting certain parts of the Osaki System to be prioritized. Lastly, it also needs to be realized that building a ‘community-based recycling society’ takes time, as it is also experienced by Osaki City.

Publication of the Results of Research Project:

Verbal Presentation (Date, Venue, Name of Conference, Title of Presentation, Presenter, etc.)

Presented (webinar) at an 'expert discussion' with the title "**The 'Recycling Community' is Growing but not Enough Developing: Osaki System Replication Experience in Depok City, Indonesia**", on December 16, 2021.

Thesis (Name of Journal and its Date, Title and Author of Thesis, etc.)

Soon will be published.

Book (Publisher and Date of the Book, Title and Author of the Book, etc.)