TEPCO HD Selected as Leader of a Project to Promote the Utilization of Waste Heat from Data Centers

~ Aiming to build a model for the effective utilization of waste heat in order to improve energy efficiency and give back to the community~

July 16, 2026

Tokyo Electric Power Company Holdings, Inc.

Tokyo Electric Power Company Holdings, Inc. (TEPCO HD) applied to be the main entity in charge of a project to promote the utilization of waste heat from data centers (hereinafter referred to as, “the Project”) in response to an open call by the Tokyo Metropolitan Government Bureau of Industrial and Labor Affairs, and was selected as such by the Tokyo Metropolitan Government on June 30.

Data centers make up the infrastructure of a digital society and their social significance is increasing significantly in conjunction with the rapid expansion of generative AI. However, it has become apparent that there are issues to address, such as how to balance the tremendous amount of power required by these data centers with the objectives of decarbonization and community development, so it is important to obtain the understanding and trust of regional residents, and people living nearby, during the development of these data centers.

For example, the stable operation of data centers requires cooling of the servers with air conditioners, etc., which consume a large amount of electricity, thereby necessitating the efficient use of energy. And, compared with conventional semiconductors, the graphic processing units (GPU) used for generative AI calculations consume more power and give off more heat thereby making it even more important that this generated heat is efficiently utilized.

The Project seeks to build a model for advancing cutting-edge technologies and services,

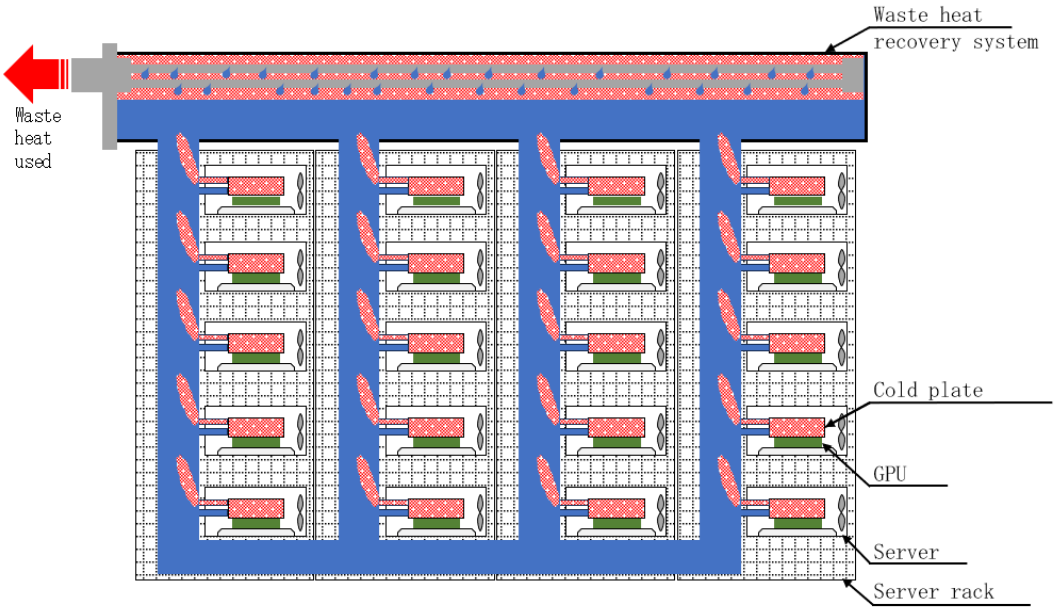
and promoting symbiosis with the community in order to utilize the waste heat generated by data centers. In particular, we are striving for the quick practical application of systems that leverage WaBiCo[*1] technology developed by TEPCO HD to better recover the waste heat from data centers, which is high in both temperature and utility value, and use it to cool the server rooms, etc. as well as provide it to neighboring hot bath facilities and factories, etc. Through these efforts we aim to improve the energy efficiency of data centers and PUE[*2], while also reducing the burden on the environment by leveraging this waste heat.

Through our involvement in this project TEPCO HD aims to contribute to regional communities through the effective utilization of the waste heat from data centers while also realizing a carbon neutral society by effectively leveraging energy as we aim to achieve our strategic goal of the 5th Comprehensive Special Business Plan of "achieving world-leading data center demand growth rate in the Tokyo metropolitan area by FY2040."

*1 WaBiCo: Watt Bit Cogeneration. Refers to the concept of using high-performance electronic equipment (Bits) that consume large volumes of power (Watts) as not only a computational resource, but also a heat energy source.

*2 PUE: Power Usage Effectiveness. The power consumption of an entire data center divided by the power consumption of IT equipment, such as servers. The smaller the result (the closer it is to 1), the better the energy usage efficiency.

<Data center heat recovery and utilization mechanism (concept diagram)>



System in which server GPUs are directly cooled by a unique cold plate and the heat generated by this process is recovered and used

<Project overview>

Project structure	Main entity	Tokyo Electric Power Company Holdings, Inc.
	Partners	MESH-X Inc.
		NHK Technologies, Inc
Project term	July 16, 2026~March 31, 2028	
Implementation location	Data centers in the Tokyo metropolitan area	
Tokyo Metropolitan Government cost burden	The Tokyo Metropolitan Government will bear the burden of expenses up to ¥520 million.	

End of announcement