

October 23, 2019
Tokyo Gas Co., Ltd.
Marunouchi Heat Supply Co., Ltd.
MITSUBISHI ESTATE CO., LTD.

Starting Japan' s first supply of carbon neutral city gas

Tokyo Gas Co., Ltd. (President: Takashi Uchida; "Tokyo Gas") has executed a heads of agreement with Marunouchi Heat Supply Co., Ltd. (President: Yutaka Tajima; "Marunouchi Heat Supply") today for supplying Japan's first carbon neutral city gas. Carbon neutral city gas will be supplied to 2 office buildings in Chiyoda Ward in Tokyo owned by MITSUBISHI ESTATE CO., LTD.(President: Jyunichi Yoshida; "MITSUBISHI ESTATE") from March 2020. The contract will continue up to the end of February 2025 for 5 years.

Carbon neutral city gas derives from carbon neutral LNG purchased by Tokyo Gas from Shell Group, and Shell 's carbon credits will be used to compensate the full carbon dioxide (CO₂) emissions generated – from exploring and producing the natural gas to be used by the final consumer.

Based on this Agreement, from March 2020, Marunouchi Heat Supply will start supplying carbon neutral city gas for entire city gas use for Solid Oxide Fuel Cell ("SOFC") in Marunouchi Building and GAS CO-GENERATION SYSTEM ("CGS") in district heating and cooling plant inside Otemachi Park Building both operated and managed by Marunouchi Heat Supply.

Marunouchi Building started introducing cutting-edge high efficiency power generation system combining SOFC and micro gas turbine from March 2019, and they are supplying a part of electricity inside the building. By introducing the system, the building's CO₂ emission for the use of electricity will be reduced significantly.

CGS of Otemachi Park Building was introduced in district heating and cooling plant inside the building in Feb 2017, and it is playing the role of supplying electricity and heat for the use of office buildings in Otemachi area. By efficiently using the heat produced from power generation, CGS will reduce CO₂ emission.

Marunouchi Heat Supply and MITSUBISHI ESTATE, by securing carbon neutral city gas, will establish an environmentally friendly and strong heat network which contributes to further reducing the environmental burden in district heating and cooling system. This will also contribute to the improvement of disaster prevention function. In addition, the companies will put advanced efforts to establish sustainable society through urban development.

By providing new low-carbon products such as the supply of carbon neutral city gas, Tokyo

Gas will promote low carbonization with customers and continue to contribute in environmentally friendly urban development through energy supply.

*The carbon credits are subject to a third-party verification process and purchased by Shell.

[Outline of SITE]

Supply Site	Marunouchi Building
Contract Start	March 2020
Contract Volume:	approx. 400,000 m3 per annum

Supply Site	Otemachi Park Building
Contract Start	March 2020
Contract Volume:	approx. 300,000 m3 per annum

	
Marunouchi Building	Otemachi Park Building
	
SOFC in Marunouchi Building	CGS in Otemachi Park Building