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Low-temperature Waste Heat Recovery using  
Thermoelectric Power Generation at Small-Scale  
Filling Stations

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Toshihiko Ishiyama is a Professor at the Department of Electrical and Electronics Systems, Graduate School of Engineering, Hachinohe Institute of Technology, Japan. He received his Bachelor's degree in Physics in 1985 at Tohoku University, Japan. He also received Ph.D. degree in electronics in 2003 at Shizuoka University, Japan. He joined Nippon Telegraph and Telephone's laboratory, in Japan, in 1987. He studied device technology in the nanometer range as a researcher in a company. He joined the Hachinohe Institute of Technology in 2014. He is a faculty member at the university where he teaches research and education to students. His research themes are power electronics, power devices, renewable energy, and energy harvesting.