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C.P. Group and Toyota/Commercial Japan embark a new milestone towards decarbonization with multi-faceted solutions

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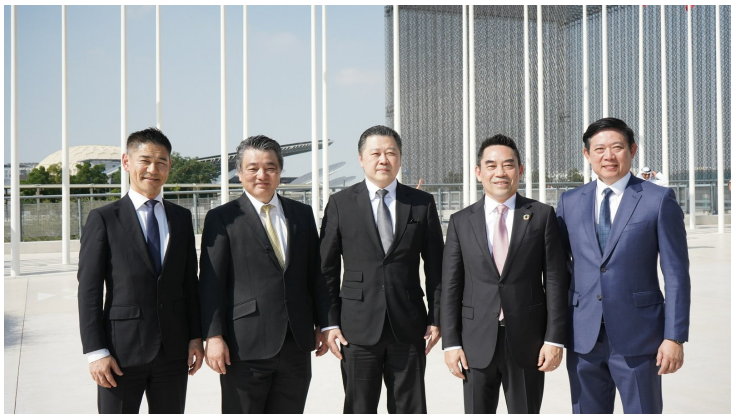

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During theÂ COP28Â UN Climate Change Conference hosted inÂ Dubai, UAE, Charoen Pokphand Group Co., Ltd. Â (C.P. Group), along with Toyota Motor Corporation (Toyota), and Commercial Japan Partnership Technologies (CJPT) announced progress in their pilot project to produce one ofÂ Thailand'sÂ first bio-hydrogen supply of an initial volume of 2kg/day. The Thai-Japanese partnership announced that they have completed their first trial of using poultry waste to produce bio-hydrogen, marking an important milestone in their journey towards decarbonizing the transportation sector.

Backed by state-of-the-art equipment, biogas derived from poultry waste provided by C.P. Group's farms is used to produce the bio-hydrogen. This collaborative effort demonstrates C.P. Group and Toyota/CJPT's commitment to innovation and dedication to reducing greenhouse gas emissions. As part of this initiative, Toyota has also establishedÂ Thailand'sÂ first Biogas-Derived Hydrogen Production Equipment at itsÂ AsiaÂ headquarters in Samut Prakan province, south ofÂ Bangkok.

To showcase the potential of bio-hydrogen as a clean energy source, the team will now embark on its next phase to trial the fuel for long-haul transportation. This trial will test the viability and performance of bio-hydrogen as an alternative energy source for the transportation sector. Together, the companies hope to eventually adopt bio-hydrogen for C.P. Group's long-haul logistics, including the powering of delivery trucks for parts of its operations inÂ Thailand.

Bio-hydrogen has the potential to play a significant role in Thailand's decarbonization journey, and in addition to poultry waste to biogas, the partnership is also exploring broader mobility solutions, and is pleased to announce the successful completion of a second test project into the role that drones can play in supporting agriculture in Thailand. Toyota created a fuel cell powered drone that has successfully been used across a number of CP farms in support of seeding, the fertilization of crops

as well as other agricultural tasks.