

Headline	TNB embarks on cofiring project with Japan`s IHI Corp		
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TNB has embarked on a joint study with Japan's IHI to pioneer small-scale co-firing project at its two thermal power plants. — Bernama photo

TNB embarks on co-firing project with Japan's IHI Corp

KUALA LUMPUR: Tenaga Nasional Bhd (TNB) has embarked on a joint study with Japan's IHI Corporation (IHI) to pioneer small-scale co-firing project at its two thermal power plants in Lumut, Perak, and Port Dickson, Negeri Sembilan.

The utility firm said it is undertaking the project through wholly-owned subsidiaries TNB Power Generation Sdn Bhd and TNB Fuel Services Sdn Bhd.

IHI has extensive experience in converting conventional fuel to carbon neutral fuel including biomass and ammonia at several plants of its clients in Japan, Malaysia, and Indonesia, TNB said in a statement today.

TNB said the co-firing project is currently in the front-end engineering design (FEED) phase that began on August 30, 2023, to substantiate the project's technological viability. This includes finalising technical

specifications, determining carbon emissions offset and fuel procurement strategies, and assessing the feasibility of chosen technologies.

"The FEED phase is expected to be completed in April this year while the initial stage co-firing is expected to take place by the third quarter of 2026 after plant modification works.

"The initiative is in line with TNB's effective carbon management target of carbon dioxide (CO₂) emission 0.35 tonne CO₂ per megawatt-hour (t-CO₂/MWh) by 2035," it added.

President and chief executive officer Datuk Seri Baharin Din said the ongoing co-firing project signifies remarkable progress in the company's commitment to sustainability as it transitions from laboratory experimentation to actual plant implementation.

"Having successfully demonstrated the burning of

one per cent biomass, we are now advancing to the next level by introducing one per cent ammonia and two per cent biomass co-firing.

"The co-firing of one per cent ammonia and two per cent biomass is poised to offset carbon emissions equivalent to 71,000 passenger cars per year, underscoring the tangible environmental impact of this advancement," he said.

Baharin said this development aligns with TNB's ambitious 2050 net-zero goals, marking a substantial reduction in carbon emission intensity.

Concurrently, a demonstration of one per cent biomass (empty fruit bunch pellet) co-firing was successful at the Tuanku Muhriz Power Station in Port Dickson between September 10 and 14, 2023, validating the suitability of co-firing to the local climate. — Bernama