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Ethanol Produced from Steel Mill Emissions

Carbon recycling company, LanzaTech, and its joint venture partner, Shougang Group, a Chinese iron and steel producer, have announced the successful start-up of the world's first commercial facility converting industrial emissions to sustainable ethanol. The facility, located at the Jingtang Steel Mill in Caofeidian in Hebei Province, began operations on May 3.

LanzaTech uses anaerobic bacteria to ferment waste emissions from industry to make fuel ethanol. This ethanol's performance in fuel blending applications is indistinguishable from sugar-derived ethanol as it meets all specifications of ASTM International D4806, the active standard for qualifying ethanol used in blending with gasoline for automotive engines. In addition, the ethanol meets the National Standard of the People's Republic of China GB 18350 for Denatured fuel ethanol.

With a capacity of 46,000 tons (16 million gallons) of ethanol per year, this facility will reduce carbon dioxide, particulates and other pollutants in line with China's climate and energy goals.

Source: www.lanzatech.com/worlds-first-commercial-waste-gas-ethanol-plant-starts/