

Adani Group starts blending hydrogen in piped natural gas

Press Trust of India

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NEW DELHI: Adani Group has started blending green hydrogen in natural gas that is supplied to households for cooking purposes in parts of Ahmedabad, with a view to cut emissions and meet net-zero targets.

Adani Total Gas Ltd, the group's city gas joint venture with French energy giant TotalEnergies, has started blending 2.2-2.3% of green hydrogen in piped natural gas supplies in Shantigram in Ahmedabad, the firm said in a post on LinkedIn.

Hydrogen produced through clean pathways is injected into natural gas pipelines, and the resulting blends are used to generate heat and power with lower emissions than using natural gas alone.

The firm has started produc-



The firm has started producing green hydrogen by using renewable energy sources. AP

ing green hydrogen by using renewable energy sources like wind or solar power, to split water into hydrogen and oxygen through a process called electrolysis. This hydrogen is blended in natural gas that is currently piped to households for cooking purposes and industries. "We are thrilled to announce the successful commissioning of our Hydrogen Blending System and in-situ

Hydrogen Generation at Adani Shantigram, Ahmedabad," Adani-Total Gas Ltd (ATGL) said.

"This project will provide uninterrupted hydrogen-blended natural gas to 4,000 domestic and commercial consumers." Presently, state-owned power generator NTPC supplies green hydrogen blended natural gas to households in Kawas in Surat district, Gujarat.

State-owned gas utility GAIL (India) Ltd is also doing a small pilot in Indore, Madhya Pradesh, to supply CNG that has been doped with grey hydrogen.

ATGL's project is the biggest so far. The firm will slowly increase the green hydrogen blend in natural gas to 5% and ultimately to 8% and widen supplies beyond Shantigram to other parts of Ahmedabad and eventually across other areas where it holds a city gas license.

Adani starts blending green hydrogen in natural gas being supplied to households

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"This achievement marks a significant step towards reducing our carbon footprint and transitioning to cleaner energy solutions. By blending hydrogen with natural gas, we are lowering greenhouse gas emissions, enhancing energy security, and supporting sustainable development," ATGL said. PTI

Adani starts India's biggest hydrogen blending in natural gas programme

PTI

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अदाणी समूह ने अहमदाबाद के कुछ हिस्सों में हरित हाइड्रोजन मिश्रण वाली पीएनजी की आपूर्ति शुरू की

नई दिल्ली, (भाषा)। अदाणी समूह ने उत्सर्जन में कटौती और शुद्ध-शून्य उत्सर्जन लक्ष्य को प्राप्त करने के उद्देश्य से अहमदाबाद के कुछ हिस्सों में घरों में आपूर्ति की जाने वाली खाना खाना पकाने वाली प्राकृतिक गैस (पीएनजी) में हरित हाइड्रोजन का मिश्रण शुरू कर दिया है। फ्रांस की ऊर्जा क्षेत्र की दिग्गज टोटलएनर्जीज के साथ समूह की शहर गैस वितरण इकाई अदाणी टोटल गैस लि. (एटीजीएल) ने अहमदाबाद के शांतिग्राम में पाइप वाली प्राकृतिक गैस आपूर्ति में 2.2-2.3 प्रतिशत हरित हाइड्रोजन का मिश्रण करना शुरू कर दिया है। लिंकडइन पर पोस्ट में कंपनी ने यह जानकारी दी।

स्वच्छ मार्गों के माध्यम से उत्पादित हाइड्रोजन को प्राकृतिक गैस पाइपलाइन में डाला जाता है। कंपनी ने इलेक्ट्रोलाइसिस प्रक्रिया के माध्यम से पानी को हाइड्रोजन और ऑक्सीजन में विभाजित करने के लिए पवन या सौर ऊर्जा जैसे नवीकरणीय ऊर्जा स्रोतों का उपयोग करके हरित हाइड्रोजन का उत्पादन शुरू किया है। इस हाइड्रोजन को प्राकृतिक गैस में मिलाया जाता है। इसकी आपूर्ति घरों में खाना पकाने के लिए और उद्योग को की जाती है। एटीजीएल ने बयान

कहा, हम अहमदाबाद के अदाणी शांतिग्राम में अपने हाइड्रोजन मिश्रण प्रणाली के सफलता से शुरू होने की घोषणा करते हुए काफी रोमांचित हैं। पोस्ट में कहा गया है कि यह परियोजना 4,000 घरेलू और वाणिज्यिक उपभोक्ताओं को निर्बाध हाइड्रोजन-मिश्रित प्राकृतिक गैस प्रदान करेगी। वर्तमान में, सार्वजनिक क्षेत्र की बिजली उत्पादक एनटीपीसी गुजरात के सूरत जिले के कवास में घरों को हरित हाइड्रोजन मिश्रित प्राकृतिक गैस की आपूर्ति करती है। गेल (इंडिया) लिमिटेड भी मध्य प्रदेश के इंदौर में ग्रे हाइड्रोजन के साथ सीएनजी की आपूर्ति के लिए एक छोटी पायलट परियोजना पर काम कर रही है।

एटीजीएल की परियोजना अबतक की सबसे बड़ी है। कंपनी धीरे-धीरे प्राकृतिक गैस में हरित हाइड्रोजन मिश्रण को पांच प्रतिशत और अंततः आठ प्रतिशत तक बढ़ाएगी और शांतिग्राम से आगे अहमदाबाद के अन्य हिस्सों और अंततः अन्य क्षेत्रों में इसकी आपूर्ति बढ़ाएगी। एटीजीएल ने कहा, यह उपलब्धि हमारे कार्बन उत्सर्जन को कम करने और स्वच्छ ऊर्जा समाधान की ओर बढ़ने की दिशा में एक महत्वपूर्ण कदम है।