

Could CCUS bring UAE steel-making to net-zero emissions?

In the best-case scenario, decarbonizing the steel industry yields a 96.5% reduction in that industry--a total 8.6% reduction relative to the BAU scenario in EII. With only 3.5% of BAU emissions remaining in that industry, CCUS could easily bring UAE steel-making to net-zero emissions.

What is the most effective steel mitigation policy in the UAE?

The single most effective mitigation policy in the UAE's steel industry, which produces steel via the EAF route, is also the decarbonization of the power supply. This is despite the fact that it targets only power-related emissions, which form a smaller component of the total emissions factor than process-related emissions.

How much CO₂ does the UAE emit per capita?

Per capita CO₂ emissions in the UAE boomed in the late 1960s, reaching a high of 100 tonnes in 1969. They have since been decreasing but are still among the top 10 highest in the world at 21.8 t per capita in 2021. The total annual emissions are relatively low, constituting ~0.55% share of global emissions in 2021.

What are the three main emitting industries in the UAE?

The three main emitting industries in the UAE are aluminium, steel and cement (Fig. S3 in the online Supplementary Data shows their activity levels). For EII, data were not available from UAE sources. Production levels for cement, steel and aluminium were found on the US Geological Survey website and collected for all available years.

Senior Consultant at Energy Systems Catapult · Highly self-motivated and Chartered Mechanical Engineer with experience of working at a high level within a diverse range of organisations, ...

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United Arab Emirates: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the data for your chosen country across all of the key metrics on this topic.

Siemens Smart Infrastructure has signed a contract with the Ministry of Energy and Infrastructure in the United Arab Emirates (UAE) for a decarbonization program which will ...

The United Arab Emirates (UAE) has the world's seventh largest proven oil reserves (1) and the sixth (2) largest natural gas reserves, making the country a critical partner and responsible supplier in global energy

markets. Although a ...

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In recent years, the United Arab Emirates (UAE) has developed strategies to increase renewable power generation and reduce emissions to net zero by 2050. Electricity generation and energy-intensive industries (EII) have the largest potentials for emission reduction.

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United Arab Emirates catapult energy systems

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