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The estimated coefficients of the benchmark model show that AI significantly reduces ecological footprints and carbon emissions while promoting energy transitions, with the most ...

Low-carbon emitting technologies such as carbon capture, utilization and storage (CCUS), hydrogen, solar photovoltaics, etc can enable the net-zero transition. We need to create the market ...

Second, technical improvements (i.e., BATs) should be promoted at all stages of the iron and steel production process. Third, the development and implementation of novel steel production ...

This "labeled" power market system should make electricity consumption by aluminum enterprises traceable and verifiable, thus ensuring the fair and accurate estimation of their carbon ...

Low-carbon lifestyles could reduce global carbon footprints by 10.4 gigatons CO2e by targeting the top 23.7% of emitting households. This study quantifies 21 low-carbon expenditures ...

Spatially nuanced policies are necessary for maximising co-benefits of carbon-emissions reduction from coal-fired power plants. Here the authors present an approach integrating costs of ...

An analysis of the& nbsp;IPCC AR6 scenarios database explores how quickly coal, oil, and gas production& nbsp;and use should be reduced in line with net-zero goals, and points to the ...

Here"s a list of simple initiatives that will reduce your organization"s GHG emissions and have a positive financial impact. For those organizations just starting to take climate action, some of ...

There has been a lot of research on how to reduce carbon emissions in the US, China, and Europe, most of which focuses on carbon reduction technologies and effectiveness in sectors such ...

In order to achieve the goals, a slew of actions should be taken to reduce and substitute fossil energy consumption by strictly and reasonably controlling coal consumption and optimizing oil ...

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