

Integrating Renewable Energies into Mainstream Chemical Processes

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According to the Integrated Prevention Pollution Control, IPPC, report, Fossil fuels are to be phased out by 2100 if the World is to avoid dangerous climate. The International Panel on Climate Change summarizes the causes, the impacts and solutions of rising temperatures. The report also says that electricity has to be produced from low carbon sources by 2050.

In this presentation, the integration renewable energy such as solar energy, for example, into the national grid or industrial applications will be highlighted. The main reason is to avoid energy transportation and storage of the different forms of energy. Biogas as another example can be converted into liquid fuels through processes such as reforming and then methanol formation or FT fuel liquid products.