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Electricity-Based Fuels

Costs and potential uses of fuels synthesized from renewable electricity

As Germany's climate change regulations become stricter and the coalition agreement by the Social Democrats and the Christian conservatives makes sure they will, the country will need to phase out petroleum and natural gas and replace them in part with power-based synthetic fuels. A key step in achieving this is to decrease the costs of such fuels, which today are far more expensive than their fossil-based equivalents. Agora Energiewende and Agora Verkehrswende, two of Germany's leading think tanks for clean-energy policy, believe that the challenge lies in the construction of new fuel production facilities with an installed capacity totalling 100 gigawatts globally. To this end, a political consensus on the future of oil and gas is necessary.

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