Renewable Energy and Resources Energy Materials and Fuel Cell Research

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U.S. Department of Energy, USA

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Today the technology around generating e cient and sustainable energy is rapidly evolving and hydrogen and fuel cells are versatile examples within a portfolio of options. e U.S. Department of Energy (DOE) O ce of Energy E ciency and Renewable Energy's Fuel Cell Technologies O ce (FCTO) addresses key technical barriers faced by hydrogen and fuel technologies through a comprehensive portfolio of early-stage research and development (R&D) with the potential to meet DOE technical, economic and energy security targets that ensure competitiveness with incumbent technologies in the market and alignment with national priorities. is presentation will provide an overview of DOE FCTO early-stage R&D activities in hydrogen and fuel cells, highlight technology status versus targets and identify recent achievements and market trends. e presentation will also o er insight into future prospects of hydrogen and fuel cells to enable energy security and resiliency across the transportation and energy generation sectors. Examples include the value proposition of hydrogen and fuel cell technologies as well as the potential of DOE's H2@Scale concept to utilize hydrogen and fuel cell technologie being conducted through FCTO's Energy Materials Network Consortia will also be described.

Biography

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