

Plenary Talk

PLV X Fri 9:45 HS 1+2

German Energy Transition - Joint Efforts for Ambitious Goals — •DIRK STENKAMP¹, XENIA GIESELER², ALEXANDER OHFF², SILVIO KONRAD², HANS KOOPMAN², and MAIK TIEDEMANN³ — ¹TÜV NORD AG, Am TÜV 1, 30519 Hannover, Germany — ²TÜV NORD EnSys GmbH, Große Bahnstraße 31, 22525 Hamburg, Germany — ³DMT GmbH, Am TÜV 1, 45307 Essen, Germany

In the beginning of the 2000s, Germany's electricity generation was heavily reliant on fossil fuels and nuclear power - a clear contrast to today's evolving landscape marked by the rise of renewable energy

sources. This transformation, known as the German energy transition or "Energiewende", is a significant shift towards sustainable energy systems, aiming to reduce carbon emissions while maintaining energy security and affordability. This presentation provides a concise overview of the current status of the energy transition in Germany and examines technical aspects while addressing economic and political challenges. We will cover the integration of renewables into a changing energy landscape and discuss the emerging role of hydrogen as a key energy carrier. Finally, this presentation will discuss whether joint efforts can successfully achieve Germany's ambitious goals for the energy transition.