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Abstract

Hydrogen has long been used in the oil&gas industry for the production of fuels, based on fossil feedstocks. In a decarbonized world, hydrogen can as well serve as a decarbonized feedstock, if produced through electrolysis. These so called Power-to-X projects can ultimately produce carbon -neutral fuels for hard-to-abate sectors. However, these projects do not come without its challenges, both from an economical and technical perspective. Engineering will be a major contributor to solve these challenges. The presentation will focus on the challenges and potential solutions to enable large scale Power-to-X projects.