

Is there still room for steam reforming in the green hydrogen era?

Steam reforming of fossil fuels is associated with high greenhouse gas emissions, and it is commonly agreed that this consolidated hydrogen production process will have to be quickly phased out during the next few decades to achieve carbon neutrality. However, the carbon footprint of steam reforming can be significantly reduced, even possibly achieving net-zero emissions, by feeding the process with renewable feedstocks and heat sources.

This talk will provide an overview on the current status and future perspectives of development of solar reforming processes, showing how this technology could contribute to meeting the growing hydrogen demand, even in a fully decarbonized energy system.