

The objective of this article is to conduct a regulatory analysis in a holistic approach for dedicated hydrogen infrastructure and markets in Greece. The regulatory analysis focuses on regulatory measures for the short-term (until 2025) and medium-term (to 2030).

The article considers potential hydrogen deployment in the 2030-time horizon and beyond. Next to the medium-term (2030), the analysis of potential developments up to 2050 is relevant especially in the context of defining hydrogen pathways aligned to the Greek Hydrogen Strategy as well as to the National Energy and Climate Plan and the 2050 climate target. The article also considers the significant uncertainty which remains concerning hydrogen pathways for Greece.

The article focuses on the development of a regulatory framework for dedicated hydrogen markets and infrastructure. The analysis of hydrogen infrastructure mainly concerns hydrogen transmission networks, new build or repurposed methane pipelines. Concerning hydrogen markets, the study focuses on wholesale markets as the main hydrogen end-users by 2030 are expected to be large (industrial) consumers. Interactions with methane and electricity infrastructure and markets are also considered.