

Project name: Green Hydrogen opportunities for Morocco	Approx. value of the contract 149 600 USD (approx. 135 000 CHF)
Country: Morocco Location within country: NA	Duration of assignment: 8 months 06/2021 – 02/2022
Name of Client: World Bank Name of Beneficiary: MASEN	Total No. of staff-months of the assignment: 7 Staff-Months provided by Planair: 6.5
Associated consultants: Khalid Benhamou, Yvan Gravel, Mohamed El Kindi	Names of Planair staff members involved in the project: Laurent De Block, Christian Rod, Lionel Perret, Elli Varkaraki

Project Description

The objective of the assignment is to provide the Moroccan agency for renewable energy (MASEN) with a comprehensive program with near to long term vision on green hydrogen deployment opportunities in local and international markets.

Services carried out by Planair

Develop an analytical framework to support systematic assessment of investments in renewable electricity generation and associated infrastructure to produce and supply green hydrogen to market sectors with near-term opportunities. Based on the analysis performed, draft recommendations with options for the development of a Program of Green Hydrogen projects in Morocco.

The analytical framework will be materialized through an optimization model aiming at minimizing the Levelised cost of Hydrogen/Ammonia/Methanol/Electricity, with as main outputs recommend installed capacities and operation characteristics of renewable energy plants combined with hydrogen related production facilities. Target prices will be fixed based on a market analysis for domestic and international usage of hydrogen and its derived products.

