



REPUBLIC OF CROATIA
Ministry of Environment
and Energy



Croatian Presidency of the
Council of the European Union

Third meeting of the Hydrogen Energy Network (HyENet)

CROATIA

Ministry of Environment and Energy

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Hydrogen in Croatia I

HYDROGEN IN CROATIA:

- STRATEGY AND POLICY
- PROMOTION OF HYDROGEN
- PROJECTS
- ISLANDS



STRATEGY AND POLICY

DONE SO FAR:

- Analytics for new Energy Strategy was made in 2018 („Green” and „White” Book)
- NECP 2021 – 2030 (*adopted and submitted in December 2019*)
- New Energy Strategy till 2030 with perspective till 2050 (*adopted in February 2020*)

TO BE MADE:

- **National Program for Hydrogen Market Development in the Republic of Croatia**
 - All relevant market players will be involved
 - estimated value - 150.000,00 EUR
 - Financing? – due COVID-19 pandemic crisis national financing possibilities became extremely limited



PROMOTION OF HYDROGEN I

- HYDROGEN DAYS IN CROATIA (part of HR PRES events)
 - Event as back-to-back with CESEC High Level Meeting
 - Promotion of vehicles: cars, bus, bicycles, quads etc.
 - Planned as part of HR PRES with help of FCH JU and Mr. Bart Biebuyck
 - Originally scheduled for April 2020 – CANCELLED due COVID-19
- CESEC High Level Meeting was postponed till *autumn 2020*
- Hydrogen days are also planned as back-to-back with CESEC
- planning is at the early stages – all relevant details to be worked out
- The further organisation depends on the situation caused by COVID-19



PROMOTION OF HYDROGEN II

- Two NGO contributed to the promotion of H₂ in Croatia
 - CROATIAN HYDROGEN ASSOCIATION
 - contribution to organisation of Hydrogen Days in Croatia
 - strong academic support
 - CROATIAN ASSOCIATION FOR THE DEVELOPMENT AND APPLICATION OF HYDROGEN FUELL CELLS
 - industry partners
- Science – CENTER OF COMPETENCE, University of Split
 - CoC for science and Technology, one activity is connected with hydrogen and fuel cells



PROJECTS

- FCH JU call: PDA

- for support to 10 local authorities (EU 13) to develop their concepts for regional hydrogen and fuel cell (FCH) projects with detailed work plans
- successful applicants will receive assistance in the form of dedicated consultancy and project management with experience in the geographic region of the project and hydrogen project development
- duration: 12 month
- **City of Zagreb & INA** application selected and accepted (among 35 regions/projects)
- External financing with value: **app. 100.000 €**
- Deadline for start of project implementation: **May 2022**



Project Development Assistance (PDA) support offer for Zagreb

Consultancy team: Element Energy

Duration: 12 months (from June 2020)

Aimed for development of a detailed work plan for a project to deploy a fleet of 20 urban fuel cell buses and the associated hydrogen refueling infrastructure in Zagreb.

The consultancy team will work with local stakeholders to review all aspects of the project, including route selection, hydrogen supply strategy, potential hardware suppliers, and scope for expanding hydrogen use to other public sector fleets.

The business case for the project will be analysed, and a funding and financing plan will be created, with potential European funding routes identified.

Project cost breakdown	€ m
Electrolyzer(€m 2 each)	4
Tube trailer filling station 500 bar, 1000 kg	1
Log- Transport	0,6
Large HRS	3
Small HRS	1
20 buses(€600k each)	12
TOTAL	21,6



ISLANDS I

- H₂ Islands call of the FCH-JU
 - Decarbonising of the islands using renewable energy and hydrogen;
 - Decarbonization of islands will be possible only with a financial support;
 - 10 islands have applied for the call and only 1 island will be able to get the funding from FCH JU
 - **one Croatian island applied**

FIND A WAY TO SUPPORT MORE ISLANDS



ISLANDS II

- HR PRES – Memorandum of Understanding (MoU) on Clean Energy for EU Islands
 - Signature initially scheduled for the informal ministerial meeting in April 2020 – cancelled due COVID-19
 - Signature scheduled during the June 2020
 - Intention of the MoU is to implement the Valetta Political Declaration and therefore create a more stable basis for co-operation in the energy field for the benefit of island communities and people.



THANK YOU

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