



MINISTERO DELL'AMBIENTE
E DELLA SICUREZZA ENERGETICA

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Cofinanziato
dall'Unione europea



REGIONE
PIEMONTE

Perspectives about zero emissions mobility in Italy

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Towards **ZERO EMISSION MOBILITY**

FCEV - Fuel Cell Electric Vehicle

BEV - Battery Electric Vehicle



TECHNOLOGICAL NEUTRALITY APPROACH

LOW EMISSION MOBILITY

PHEV - Plug-in Hybrid Electric Vehicle

EREV - Extended-Range Electric Vehicle



Regulatory Framework

Low and zero-emission mobility

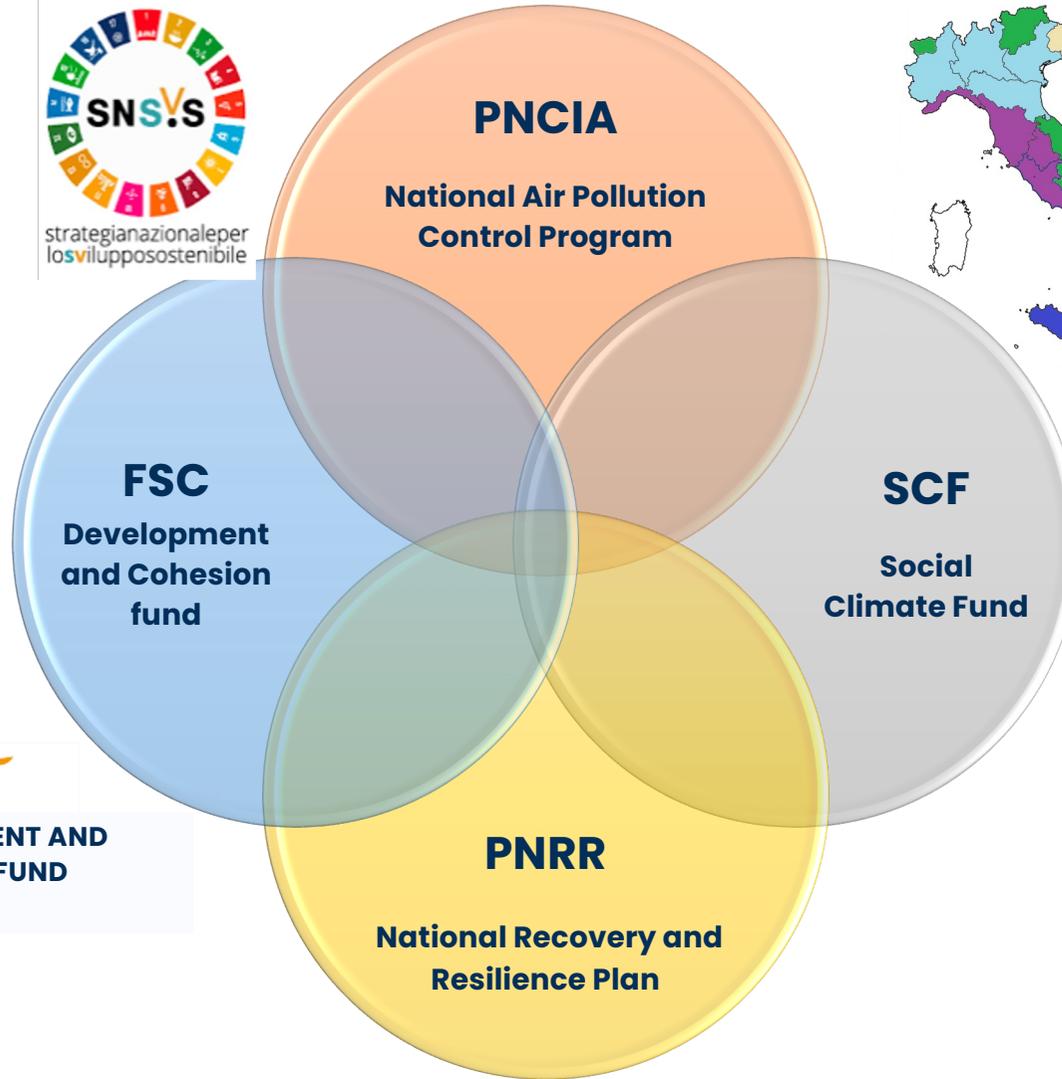
Infrastructures

R&D programs



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POLICY FRAMEWORK & FUND





2016–2017

Funding program for the promotion of sustainable school transport



€ 74.750.000

aimed at financing sustainable mobility projects in areas with a population of over 100.000 inhabitants

80 PROJECT

€ 164.100.000

2018–2024

Sustainable Urban Mobility Incentive Program (PRIMUS)



€ 16.350.000

aimed at financing (75%) sustainable mobility projects in municipalities with a population of over 50,000 inhabitants

46 PROJECTS

€ 26.100.000

2020

National experimental program for sustainable home-school and home-work mobility



€ 20.000.000

aimed at financing 100 electric school buses for Municipalities in violation of AIR QUALITY standards

19 PROJECTS

€ 18.000.000

**PNRR M2C2
14.3**



TARGET
by June 2026

Installation certificates and acceptance of connection cost estimates by the promoter



M2C2-29 ≥ 10.368 fast charging points with a power output of at least 175 kW on rural/extra-urban roads and 90 kW in city centers

calls for proposals	urban roads	rural/ extra-urban roads	
2023	4.128	0	
2024	5.438	1.954	
total	9.566	1.954	11.520



144.000.000 €

Single National Platform – PUN
for electric vehicle charging points



Alternative Fuels Infrastructure Regulation (AFIR) **MONITORING**



ZERO EMISSION VEHICLES

PNRR M2C2 Private and light commercial vehicle fleet renewal program with electric vehicles

14.5



TARGET
by June 2026

M7-50 ≥ 46.500

Contracts for purchase of at least zero-emission vehicles.



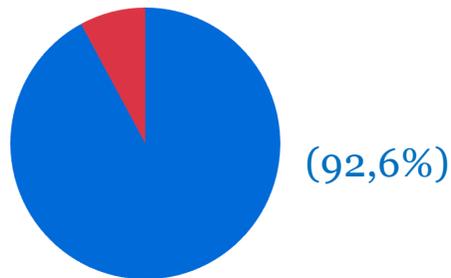
596.616.426 €

RESULTS AT 11.12.2025

VOUCHERS

issued **55.756**

validated **51.604**



BENEFICIARIES



Individuals in FUA for
(M1 vehicles)



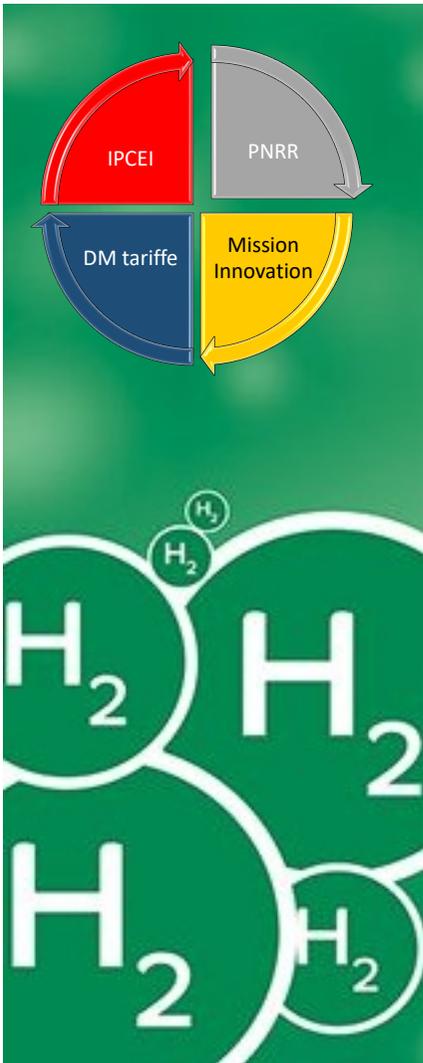
MICRO-ENTERPRISES
with headquarters in FUA
(N1 and N2 vehicles)

INCENTIVE LEVELS

Up to **€11,000** for ISEE ≤ **€30,000**
Up to **€9,000** for ISEE **€ 30,000–**
€40,000

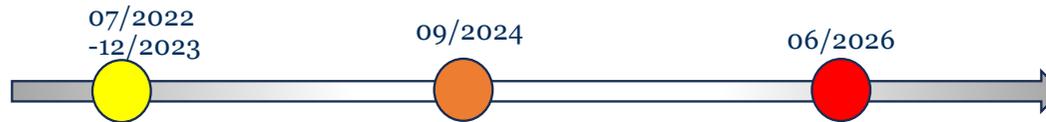
Up to **30%** of the vehicle price,
capped at **€20,000**

H2 FUNDING PROGRAM



- M2C2-I-3.1 «Hydrogen Valleys»
- M2C2-I.3.2«Hard to abate»
- M2C2-I.3.3 «Road transport»
- M2C2-I.3.4 «Rail transport»
- M2C2-I.3.5 «R&S H2»
- M2C2-R.3.2 «Promotion of H2 competitiveness»
- M2C2-I.5.2 «Hydrogen»
- M2C2-R.3.1 «Simplification H2 diffusion»

€ 3,64 billion



- Incentives production
- Incentives use
- R&S
- Permitting
- Technology supply chain

The PNRR introduces measures for investment, regulation, market creation, research and innovation in line with the EU hydrogen strategy.



€ 118 M

DM n. 386 – 17.11.2023



The Goal: To increase the cost-competitiveness of clean hydrogen by reducing end-to-end costs to USD 2 per kilogram by 2030.





6 public calls for proposals
reaching TRL 7-8 related
to 6 energy strategic areas

2025

- 1**
- Primary and secondary mining
 - Fluid extraction
 - Urban mining and eco-design
 - Transformation

- 2**
- Integration of VRE into power systems
 - Monitoring and advanced diagnostics of VRE systems
 - Resilience and safety of VRE plants
 - Eco-design
 - Increasing national energy production from VREs
 - Higher-efficiency photovoltaic cells and modules

- 3**
- Grid integration of energy storage systems
 - Flexibility and aggregation services
 - Electric vehicles as flexibility resources
 - Planning, management, and control of the integrated energy system

	STRATEGIC AREA	MISSION	BUDGET M€
1	Critical Raw Materials	Cross cutting	21
2	Variable renewable energy sources	GPF – PILLAR 1	60
3	Flexibility and energy storage	GPF – PILLAR 2	62
4	Data and grid digitalization	GPF – PILLAR 3	60
5	Electrolyzes and grids	GPF -CH	6
6	Bio-hydrogen and Biofuels	Cross cutting	12
	Total		221

- 4**
- Interoperable digital platforms
 - Digital Twin (DT), Artificial Intelligence (AI) techniques, and development of predictive models
 - Integration of e-mobility with the grid
 - Cybersecurity

- 5**
- Electrolysis technology
 - Electrolyzers and renewable sources
 - Electrolyzers and the electricity grid

CALL RESULTS

ELIGIBLE PROJECTS	101	ELIGIBLE CONTRIBUTION	€ 227.892.614,51
PROJECTS SUCCESS RATE	average 69%		
PROJECTS COST/BUDGET	average 196%		
PRIVATE COFUNDING	average 32%		

- 6**
- Development of processes for the production and/or purification of biohydrogen and biofuels
 - Recovery and/or exploitation of by-products generated in the biohydrogen and biofuel production processes
 - Development of systems for the distribution of biofuels and injection of biohydrogen into the gas grid or their use in the electricity and/or thermal grid
 - Optimization of the raw material supply chain in terms of sustainability and environmental impact

2026

STRATEGIC AREA	MISSION	BUDGET M€
International projects	Cross cutting	11
Clean Hydrogen	CH	118
Total		129



R&D THEMATIC AREAS

- **Hydrogen production**

Aimed at improving the efficiency and capacity factor of hydrogen production plants using different technologies.

- **Hydrogen transport and storage**

Aimed at improving the efficiency and capacity factor of hydrogen transport and storage.

- **End uses**

Dedicated to encouraging the use of hydrogen in industrial sectors by supporting end users and promoting hydrogen as an energy source, especially in "hard to abate" sectors.

- **Hydrogen Valleys and large-scale integrated hydrogen projects**

Aimed at supporting integrated projects covering the entire supply chain, from production to end use, promoting the creation of a sustainable hydrogen economy.

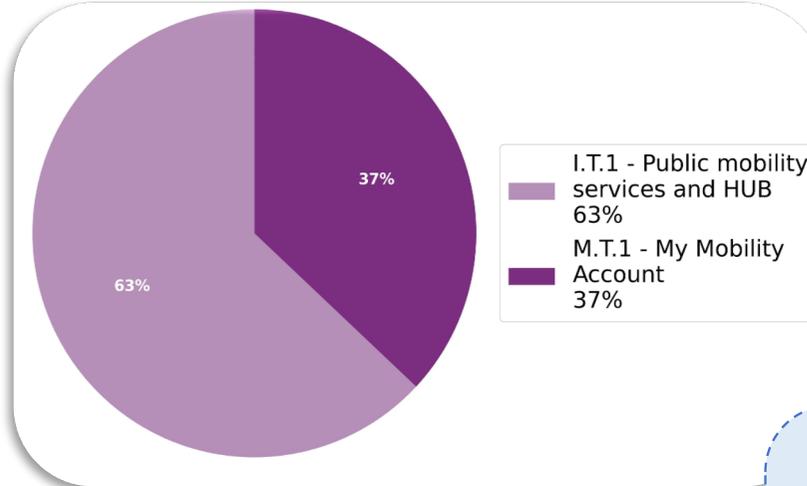
- **Synergies and integration of hydrogen use**

Aimed at promoting the synergistic use of hydrogen in industrial processes and mobility, offering a significant opportunity for decarbonisation and energy efficiency.

- **Cross-cutting actions on hydrogen**

Aimed at promoting information and training in order to foster a favourable environment for hydrogen.

INVESTMENT&MEASURES	BUDGET
I.T.1 - PUBLIC MOBILITY SERVICE AND HUB	2.946.744.479,00 €
M.T.1 - MY MOBILITY ACCOUNT	1.740.000.000,00 €
total	4.686.744.479,00 €



BENEFICIARIES



from 2028 to 2032

Incentives for mobility supply through the **activation, improvement or expansion of the operational area of public, collective and shared mobility services and infrastructures**, including the development of mobility hubs aimed at facilitating access to sustainable mobility services, intermodality and integration between public and private mobility.



from 2027 to 2032

Incentives for mobility demand through a mobility account (wallet) to **access sustainable transport services at reduced rates**. The mobility account value is defined based on the beneficiary's vulnerability level: three economic brackets are provided with values of € 400, € 200 and € 100 per year per beneficiary

VEHICLES
ELIGIBLE ONLY IF FUNCTIONAL TO ACTIVATED SERVICES

- For scheduled transport services: **M2, M3**;
- For Demand Responsive Transit (DRT) services: **M1, M2, M3**;
- For shared mobility services: **M1, L1, L2/3, L6/7, E-bike, Cargo-bike**

PHYSICAL AND DIGITAL INFRASTRUCTURES
capable of facilitating access to sustainable mobility services and intermodality (mobility HUBs)..

- Regional and local public transport services** (Legislative Decree No. 422 of November 19, 1997 and related regional implementing regulations);
- Demand Responsive Transit - DRT** (Article 14, paragraph 4, of Legislative Decree No. 422 of November 19, 1997);

Thank you!



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