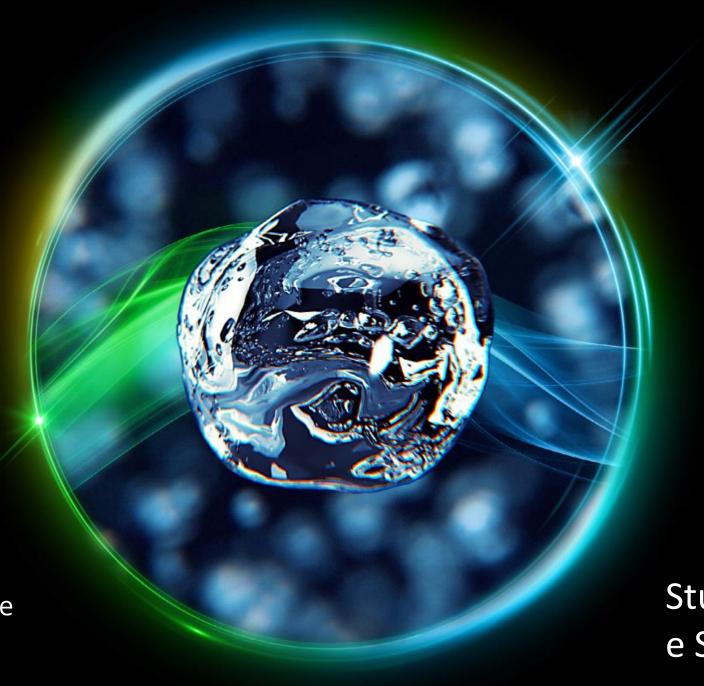
Deloitte.

Global **Investment Innovation Incentives** (Gi^3)

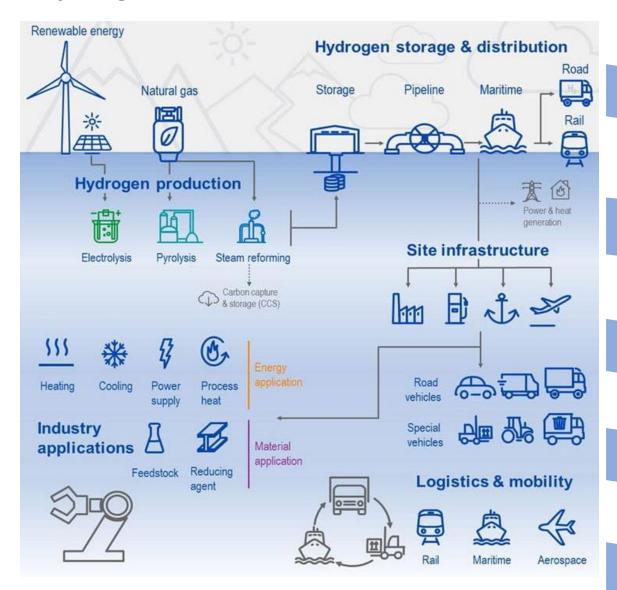
Hydrogen Experience

12 June 2023



Studio Tributario e Societario

Hydrogen value chain



Grants and incentives available for the entire value chain around the world

Hydrogen production

USA: Clean Hydrogen Production Credit – 45V

Europe : European Hydrogen Bank

Germany: Carbon contract for difference

China: Subsidy for CAPEX investment regarding

construction of Green factory

Hydrogen storage & distribution

Europe: Horizon-JTI-CleanH2 – Innovation Fund

USA: Hydrogen Shot – ITC 48

Spain : PERTE of Renewable Energies, Renewable

Hydrogen and Storage (ERHA)

Site infrastructure

Japan: Development of hydrogen stations to

promote fuel cell vehicles (FCV)

Europe : CEF USA: H2 Hubs

China: Nationalize subsidy for FC vehicle

Europe : Horizon Europe – Cluster 5 « Climate,

Energy and Mobility »

France: CORAM 2022 & 2023

China: One project one discussion

Germany: Decarbonization of (Producing)

Industry

USA: Regional Clean Hydrogen Hubs program

Italy: H2 in Hard to abate sectors

Logistics & mobility

Industry applications

Main H2 trends worlwide

Main national plans for the development of the hydrogen energy industry

US

Obj: 10 million tons annually of clean hydrogen by 2030, 50 tons annually by 2050



> \$ 21 billions

National Clean Hydrogen Strategy

- IRA: Clean Hydrogen Production
 Credit 45V: Provides until 0.60 cents
 for every kilogram of clean hydrogen
 produced
- Regional Clean Hydrogen Hubs: \$11 billion to develop regional clean hydrogen hubs
- Electrolysis Program: \$1 billion to facilitate commercial production of clean hydrogen using electrolyzers
- **CCUS plan:** \$ 8 billion for CCUS equipment

Europe

Obj: 40 GW by 2030, producing 10 million tons



ca € 20 billions

REPowerEU

- Horizon Europe: €300.5 million for renewable hydrogen projects
- Innovation Fund: EU invest € 1.8 billion in Clean Tech Projects including hydrogen
- European Hydrogen Bank first pilot auction on renewable H2 in fall 2023 (€ 800 million)
- Clean Hydrogen Partnership: €195
 million for projects development of
 cutting-edge clean hydrogen
 technologies

China

Obj: 100.000-200.000 tons green hydrogen by 2025



China's long-term plan for hydrogen

- Nationalize subsidy for FC vehicle: €230 million granted to selected city clusters for FC vehicle manufacturers
- Subsidy for CAPEX investment regarding construction of Green factory: Local government will grant subsidy based on certain percentage of CAPEX investment for construction of green factory

The IIJA (Infrastructure Investment and Jobs Act) included \$21.5B in funding for low-carbon hubs, CCUS, and clean hydrogen technology, catalyzing demonstration projects in the U.S.

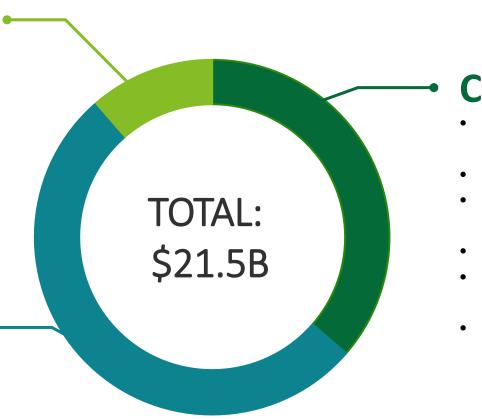




- Electrolysis hydrogen demonstration, commercialization & deployment
- Industrial research & assessment centers
- Clean hydrogen manufacturing and recycling

HUBS: \$11.5B

- Regional clean hydrogen hubs
- Regional direct air capture hubs



CCUS: \$8.0B

- Carbon capture demonstration & pilot programs
- Carbon storage validation & testing
- CO₂ transportation infrastructure finance & innovation
- Carbon utilization program
- Direct air capture technologies prize competitions
- Carbon capture technology program
 Secure geologic storage permitting

45Q and 45V tax credits in the IRA will further accelerate the deployment of clean hydrogen and carbon capture technologies.

Tax Credit from Internal Revenue Code (IRC) and Inflation Reduction Act (IRA) for H2

PTC - Renewable

Energy Production

Clean energy incentives

• Section 45 – Renewable electricity production credit modification and extension

ITC - Storage

- Section 48 Energy credit modification and extension
- Section 45Y Clean electricity production credit
- Section 48E Clean electricity investment credit
- Section 45U Zero emission nuclear power production credit

Transportation and vehicle incentives

- Section 45W Qualified commercial clean vehicle credit
- Section 30C Alternative fuel refueling property
 credit modification and extension
 ITC –Fueling stations
- Section 25E Previously-owned qualified clean venicies credit
- Section 30D Clean vehicle credit modification and extension

Fuels incentives

- Section 40B Sustainable aviation fuel credit
- Section 45Z Clean fuel production credit
- Sections 6426, 40(b), 40A Alternative fuel credits extension

Manufacturing incentives

Section 48C – Advanced energy project credit

Section 48D – Advanced manufacturing investment credit

Section 45X – Advanced manufacturing production credit,

Carbon capture and hydrogen incentives

 Section 45Q – Carbon oxide and sequestration credit modification and extension

Section 45V – Clean hydrogen production credit

nd extension)

Energy efficiency incentives (modification and extension)

- Section 179D Energy efficient commercial buildings deduction
- Section 25C Energy efficient home improvement credit
- Section 25D Residential clean energy credit
- Section 45L New energy efficient home credit

Other

- Section 6417 Limited elective payment option
- Section 6418 Transfer of certain eligible credits
- Section 38 General business credits utilization modifications
- Section 55 New 15% Corporate AMT

Note: Items in blue font are newly created under the IRA or CHIPS Act

ITC – for recycling clean energy products

PTC – for clean

TC – for CC

equipment

IRA 45V or IRC48 for hydrogen

IRA provides lucrative incentive opportunities for developers of clean hydrogen production and storage projects.



Legislation

• IRC section 45V allows for production tax credits of up to \$3 per kilogram ("kg") of qualified clean hydrogen produced by a taxpayer, based on the lifecycle greenhouse gas ("GHG") emissions rate (<4kgCO2eq/kgH2), at a qualified clean hydrogen facility during a 10-year period beginning on the date the facility is placed in service ("45V PTC"). Taxpayers may elect to claim an investment tax credit ("ITC") of up to 30% under IRC section 48 in lieu of the 45V PTC.

Section 45V PTC/ITC Emissions Rate	Applicable Percentage	PTC/kg <u>Base</u>	PTC/kg <u>Bonus*</u>	ITC % <u>Base</u>	ITC % Bonus*
< 0.45 kg	100.0%	\$0.60	\$3.00	6.0%	30.0%
0.45 kg ≤ 1.5 kg	33.4%	\$0.20	\$1.00	2.0%	10.0%
1.5 ≤ 2.5 kg	25.0%	\$0.15	\$0.75	1.5%	7.5%
2.5 kg ≤ 4 kg	20.0%	\$0.12	\$0.60	1.2%	6.0%

*Must satisfy prevailing wage and apprenticeship requirements for the higher bonus rates.

IRC section 48 allows for an ITC of up to 30% (or up to 50% in some cases) for the installation of energy property, including "energy storage technology" which includes property which receives, stores, and delivers energy for conversion to electricity (or, in the case of hydrogen, which stores energy), and has a nameplate capacity of not less than 5 kilowatt hours.

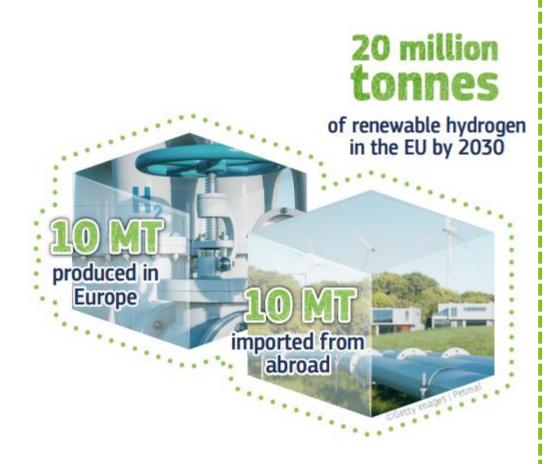
Section 48 ITC	Base Rate	Bonus Rate*
Base Amount	6%	30%
Domestic Content Adder	2%	10%
Energy Community Adder	2%	10%
Total Maximum Rate	10%	50%

RePowerEU and European Hydrogen Bank

* * * *

Hydrogen is one of the key technologies of Europe's Net Zero Industry Act

RePowerEU plan Targets:



First Pilot Auction for renewable hydrogen production



- Renewable Hydrogen (REDII)
- Payment per unit of certified production
- Fixed premium price: € 4/ kg H2
- Price only ranking
- No minimum price
- Max: 33% of tot initial defined budget
- Min: 5MW electrolyser capacity
- Annual production over 10years

Hydrogen China Landascape

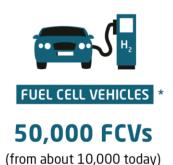
Medium & Long-term Plan for Hydrogen Energy Industry Development (2021-2035)





100,000-200,000

tons/year green hydrogen (3.3-6.7 TWh)





HYDROGEN INFRASTRUCTURE

ENCOURAGE

low carbon and renewables based hydrogen production, steadily construct hydrogen storage and transport systems



PROMOTE

R&D in key core technologies, participate in international standardization and cooperation, and educate a hydrogen workforce



ADVANCE

demonstration projects in transport, storage, urban districts and the metallury and chemical industries

- Nationalize subsidy for FC Vehicle: A total subsidy of RMB 1.7 Billion will be granted to selected city clusters under which each FC vehicle put into use will be awarded 0.25 pts for MEA manufacturers, representing a RMB 25,000 per vehicle subsidy by current rules
- One project one discussion: Local financial subsidy upon greenfield investment
- Subsidy for CAPEX investment regarding construction of Green factory: grant of 10% to 15% for CAPEX investment for construction of green factory

Source: National Development and Reform Commission

© 2023 Studio Tributario e Societario – Deloitte Società tra Professionisti S.r.l.

^{*}Targets for 2025

Deloitte.

Studio Tributario e Societario

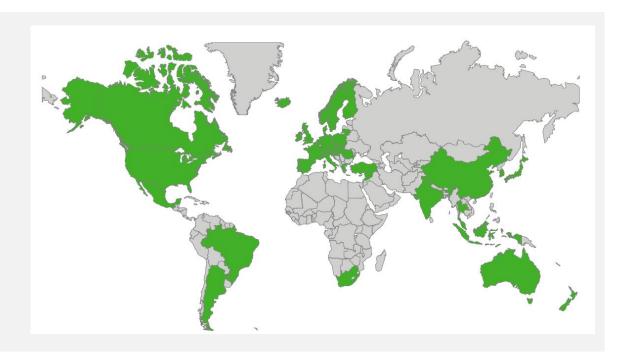


SILVIA CESARINI scesarini@deloitte.it



Global Investment Innovation Incentives (Gi³)

Hydrogen Focus Team



This document has been prepared by Studio Tributario e Societario for the sole purpose of enabling the parties to whom it is addressed to evaluate the capabilities of Studio Tributario e Societario to supply the proposed services.

The information contained in this document has been compiled by Studio Tributario e Societario and may include material obtained from various sources which have not been verified or audited. This document also contains material proprietary to Studio Tributario e Societario. Except in the general context of evaluating the capabilities of Studio Tributario e Societario, no reliance may be placed for any purposes whatsoever on the contents of this document. No representation or warranty, express or implied, is given and no responsibility or liability is or will be accepted by or on behalf of Studio Tributario e Societario or by any of its partners, members, employees, agents or any other person as to the accuracy, completeness or correctness of the information contained in this document.

Other than stated below, this document and its contents are confidential and prepared solely for your information, and may not be reproduced, redistributed or passed on to any other person in whole or in part. If this document contains details of an arrangement that could result in a tax or insurance saving, no such conditions of confidentiality applies to the details of that arrangement (for example, for the purpose of discussion with tax authorities). No other party is entitled to rely on this document for any purpose whatsoever and we accept no liability to any other party who is shown or obtains access to this document.

This document is not an offer and is not intended to be contractually binding. Should this proposal be acceptable to you, and following the conclusion of our internal acceptance procedures, we would be pleased to discuss terms and conditions with you prior to our appointment.

Studio Tributario e Societario – Deloitte Società tra Professionisti S.r.l., a company, registered in Italy with registered number 10581800967 and its registered office at Via Tortona no. 25, 20144, Milan, Italy, is an affiliate of Deloitte Central Mediterranean S.r.l., a company limited by guarantee registered in Italy with registered number 09599600963 and its registered office at Via Tortona no. 25, 20144, Milan, Italy.

Deloitte Central Mediterranean S.r.l. is the affiliate for the territories of Italy, Greece and Malta of Deloitte NSE LLP, a UK limited liability partnership and a member firm of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee ("DTTL"). DTTL and each of its member firms are legally separate and independent entities. DTTL, Deloitte NSE LLP and Deloitte Central Mediterranean S.r.l. do not provide services to clients. Please see www.deloitte.com/about to learn more about our global network of member firms.