



Corrigendum: Global Hydrogen Review 2021

Issued: 25 November 2021

Link to report: <https://www.iea.org/reports/global-hydrogen-review-2021>

On **page 8**, title from “Stronger international co-operation: a key lever for success” changed to:

“Stronger international co-operation: a key lever for success”.

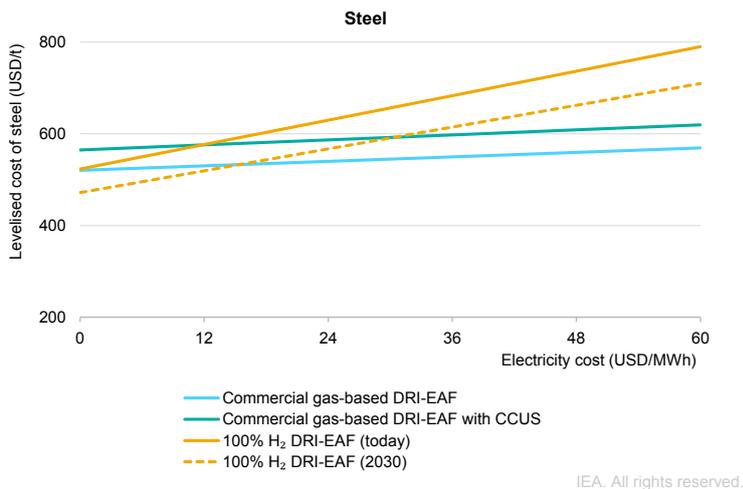
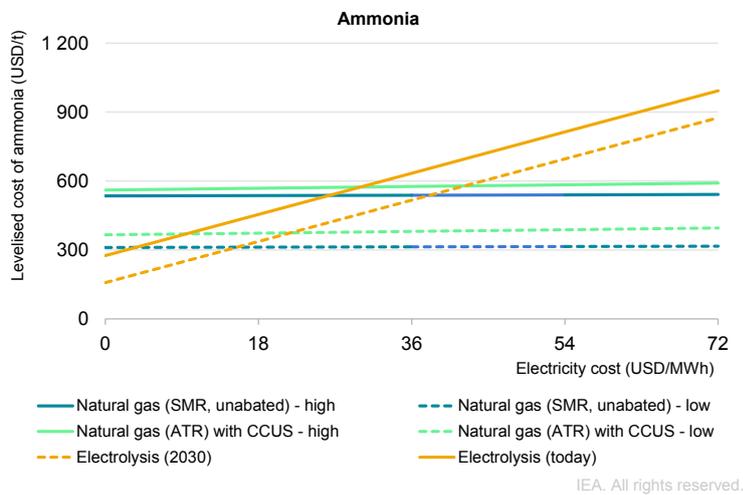
On **page 52**, delete the “in” in this sentence:

“In the Net zero Emissions shows 25 Mt H₂ in 2030 and 10 Mt H₂ in 2050.”

On **page 57**, in the second paragraph of the right column, please replace “aiming to scale up this project to 30-140 kt H₂/yr” with **“aiming to scale up this concept to 30-140 kt H₂/yr”.**

On **page 61**, in the figure title, please replace “Emissions scenarios, 2020-2030” with **“Emissions scenarios, 2020-2050”.**

On **page 66**, replace figures with these updated ones:



On **page 84**, in the second paragraph, please replace "According to the IEA's critical minerals report, global demand for platinum group metals is expected to fall as FCEVs displace conventional vehicles that have a high palladium content in their catalytic converters. Overall platinum demand is, however, expected to increase despite further reductions in the platinum loading of automotive fuel cells." with the following:

"According to the IEA's critical minerals report, global demand for platinum group metals is expected to grow as FCEVs displace conventional vehicles, though this is mitigated by lower palladium required for ICEV catalytic converters. Overall platinum demand is expected to increase despite further reductions in the platinum loading of automotive fuel cells."

On **page 90**, in the 2nd paragraph replace "up to 50 kWe" with **"up to 5 kWe:"**

"Deployment of micro-cogeneration stationary fuels cells (<1 kW of electrical output [kWe] for residential applications, and **up to 5 kWe).**"

On **pages 85, 113, 120, 123, 124, 130, 137**, reference to "the Hydrogen Council" replaced by **"McKinsey & Company and the Hydrogen Council"**.

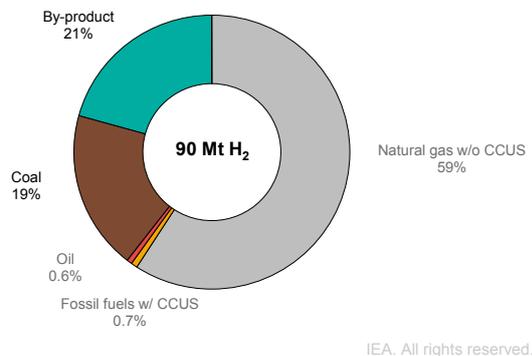
On **page 92**, 1st line of the table, 4th column, change 64 to **65**.

On **page 96**, in the 3rd paragraph, replace this sentence : "This range is broader than for electric heat pumps due to the large efficiency gap: for the same heat output, electric heat pumps require five to six times less electricity than a hydrogen boiler" with the following:

"This range might be broader than for electric heat pumps due to the wide variability of efficiencies and capital cost of hydrogen equipment."

On **page 100**, added to the notes **EU = European Union. US = United States.**

On **page 108**, the figure was updated:

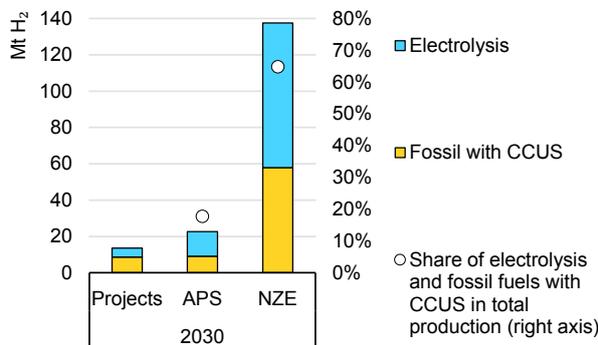


On **page 108**, add a footnote after "900 Mt of direct CO₂ emissions in 2020" and the following text:

"This includes 265 Mt CO₂ emitted through the use of hydrogen-derived products (e.g. urea and methanol) that capture carbon only temporarily".

On **page 109**, in the 1st paragraph, replace "and 16 natural gas with CCUS plants" with **"and 16 fossil fuel with CCUS plants"**.

On **page 110**, the figure was updated:



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On **page 110**, in the 1st paragraph, replace “while 47 projects for fossil fuels with CCUS” with “while **56** projects for fossil fuels with CCUS”

On **page 120**, in the notes below the figure, “Met” replaced with “**Net**”.

On **page 126**, title from “Hydrogen from electrolysis can compete with hydrogen from gas in several regions in the long term” changed to:

“Hydrogen from electrolysis **starts to compete with hydrogen from natural gas with CCUS by 2030.**”

On **page 132**, in the 1st paragraph, replace these sentences: “Globally, 47 projects for producing hydrogen with CCUS are under development, with a total of four currently under construction in China and the United States. Of these, 41 rely on natural gas with CCUS, four are linked to coal and one to oil. Geographically, Europe hosts 23 projects (largely in the Netherlands and the United Kingdom), while North America hosts 4 and China has 2.” with the following:

“Globally, 40 projects for producing hydrogen with CCUS are under development, with a total of four currently under construction in China and the United States. Of these, 35 rely on natural gas with CCUS, four are linked to coal and one to oil. Geographically, Europe hosts 19 projects (largely in the Netherlands and the United Kingdom), while North America hosts 7 and China has 2.”

On **page 140**, colour of header corrected.

On **page 146**

- in the first paragraph, “5%” replaced with “**5 vol%**”
- in the second paragraph, “1% vol” replaced with “**1 vol%**”
- in the third paragraph, “**Up**” should be deleted

On **page 148**, in the first paragraph of the right column, replace “with throughput capacity of 1.25 kt H₂/yr)” with “**with throughput capacity of 4 kt H₂/yr)**”.

On **pages 156,158,160, 180** “liquid” replaced by “**liquefied**”.

On **page 158**, one extra “TBD = to be determined” deleted.

On **page 159**, abbreviations below the map deleted.

On **page 164**, **MAN** and **INEOS** capitalised.

On **page 171**, the colours in the legend of “Large prototype” and “Demonstration” are interchanged. Please use the light orange for “Large prototype” and the yellow for “Demonstration”.

On **page 174**, header corrected.



On **page 177**, in the first paragraph “with” replaced by “**which**”.

On **page 188**, in the third paragraph “and deploying fuel cell truck fleets by maximising utilisation rates of HRSs” replaced by

“and deploying fuel cell truck and bus fleets which maximise utilisation rates of HRSs”.

On **page 190**, in the first line, replace “emissions of 360 Mt CO₂/yr” with “**emissions of 475 Mt CO₂/yr**” and the following text:

On **page 190**, in the footnote, replace “An additional 115 Mt CO₂ is emitted through” with “**This includes 115 Mt CO₂ emitted through...**”