

NORTH AMERICAN H2 NEWS BRIEF

北米水素業界ニュース概要



SAORADH™
ENTERPRISE
PARTNERS

MAY 1-JUNE 11, 2025

SEP's Curated H2 News, Insights, and Policy Updates for JETRO & JH2F Members

Table of Contents / 目次



Monthly News Statistics

今月のニュース統計



SEP Analyst Notes

SEPアナリスト解説



News Stories

主要ニュース一覧



Policies

政策



Projects

プロジェクト



Mobility / Transportation

モビリティ/輸送



Technology / Research

技術/研究



Investments, Mergers,

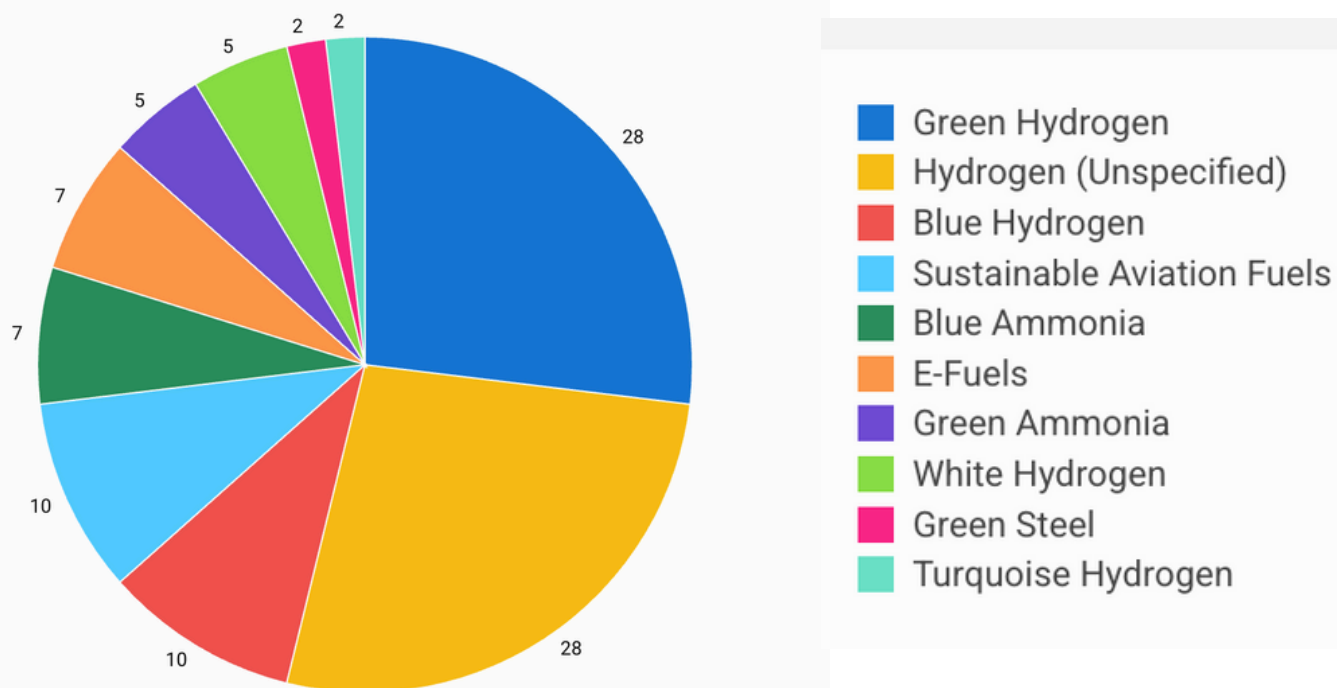
Acquisitions

投資、合併、買収

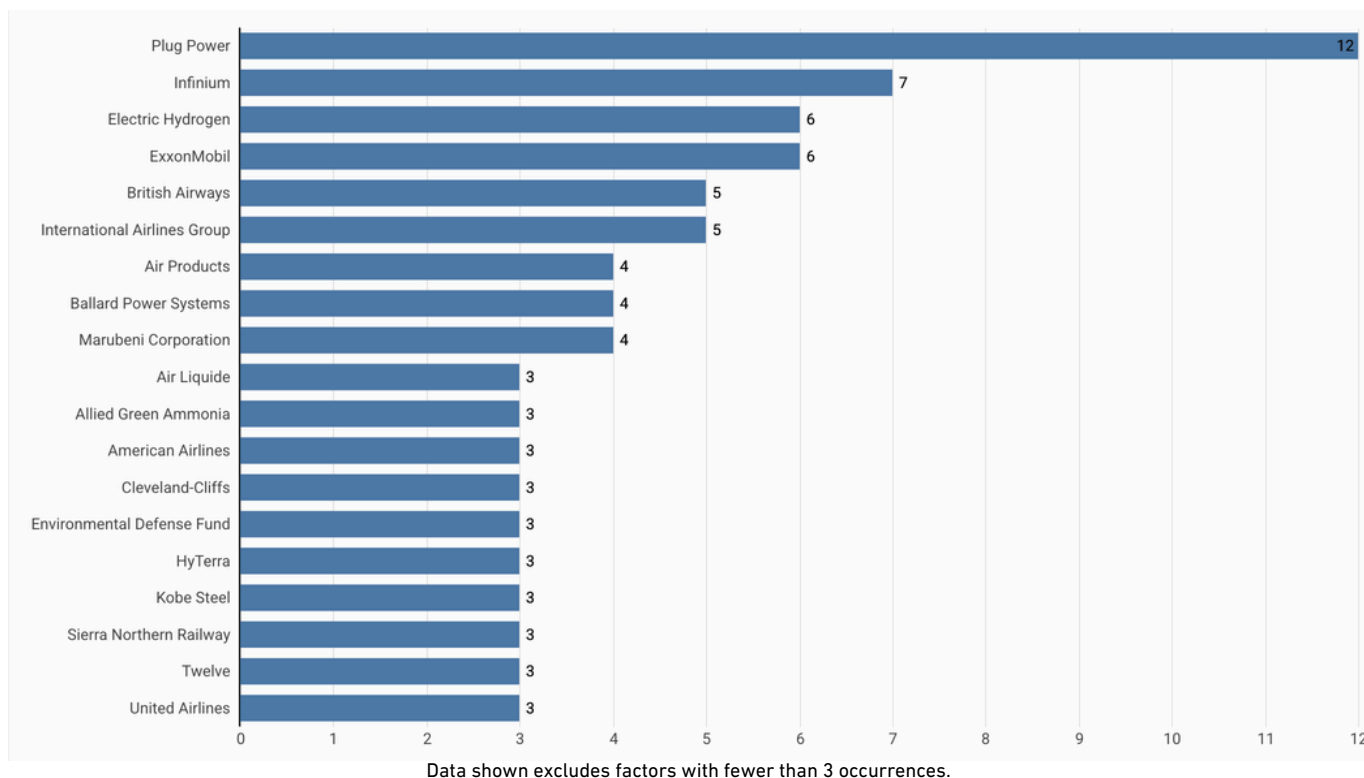


Monthly News Statistics / 今月のニュース統計

News Count by Product / 製品別ニュース数

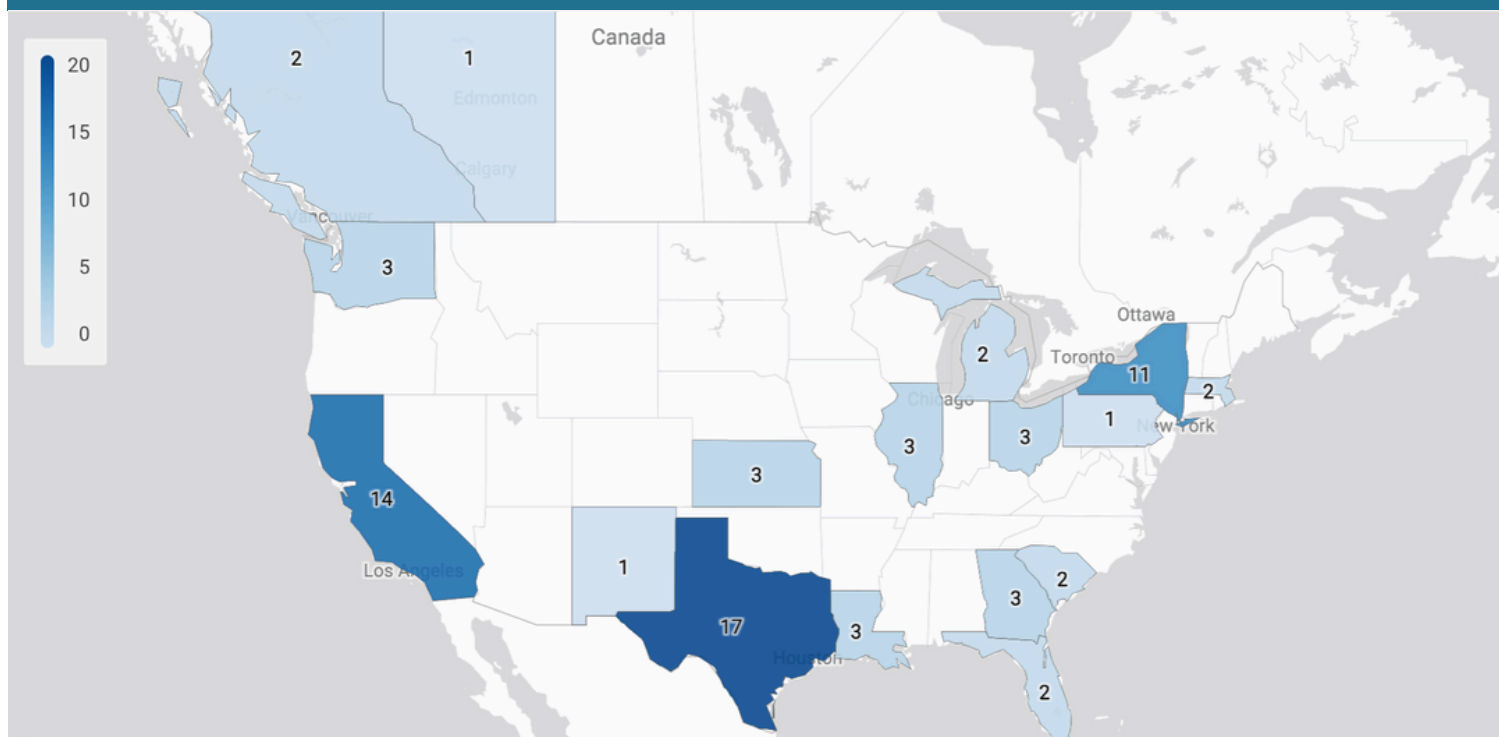


News Count by Company Name / 企業別ニュース数

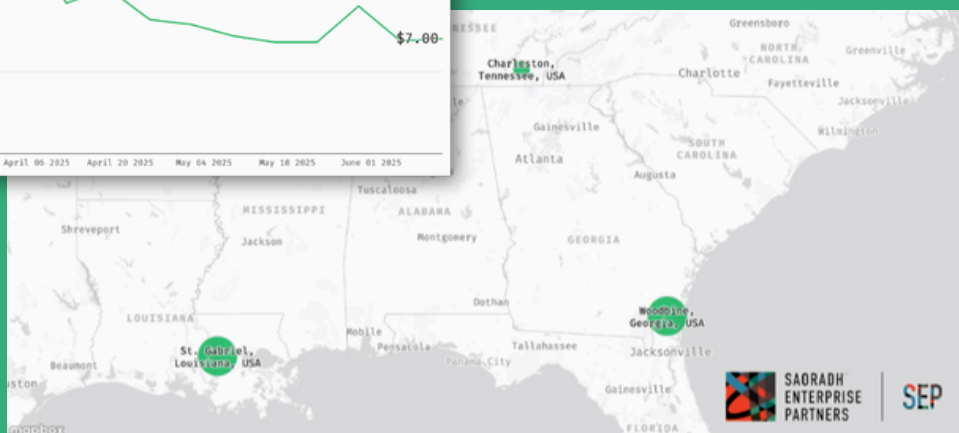
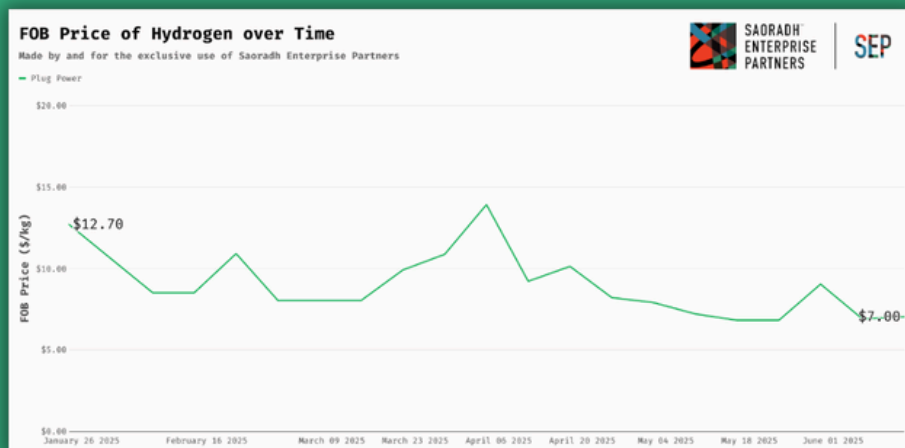


Monthly News Statistics / 今月のニュース統計

News Count by State or Province / 州別ニュース数



US Hydrogen Spot Pricing / 米国水素スポット価格



Analyst Note (May 1 - June 11, 2025)

May and early June 2025 presented significant political headwinds and uncertainty for the North American hydrogen market. In mid-April, the U.S. House Ways and Means Committee approved President Trump's "Big, Beautiful Bill" in a 26–19 vote. The legislation includes a provision to terminate the 45V hydrogen production tax credit early, along with broader rollbacks to clean energy programs—such as eliminating the transferability of the 45Q carbon capture credit for projects beginning construction more than two years after the bill's enactment. Just one week later, the U.S. House of Representatives narrowly passed the bill by a 215–214 vote, further casting doubt on whether the hydrogen tax credit will remain in place beyond December 31 of this year. As the industry awaits action from the U.S. Senate, pushback against the House's proposed hydrogen cuts cannot come soon enough, especially as the list of major project cancellations continues to grow amid mounting uncertainty. Examples of market activities that relate to this U.S. political climate include:

- **Headwinds:** Air Products has halted spending on its flagship \$4.5 billion Louisiana blue ammonia project, General Motors suspended plans to build its \$55 million fuel cell manufacturing plant in Michigan, and Cleveland-Cliffs officially abandoned its planned \$500 million hydrogen-based steel project in Ohio.
- **Tailwinds:** At the start of May, the largest proposed blue hydrogen project in the world took another significant step forward, with Marubeni agreeing to offtake 250,000 metric tons per year of blue ammonia from ExxonMobil at Baytown, Texas, as well as acquiring an equity stake in the project. Just days later, U.S.-based developer Infinium officially broke ground on "Project Roadrunner," the largest e-fuels plant globally, located in Texas, selecting Electric Hydrogen to provide a 100 MW PEM electrolyzer. In late May, Plug Power's green hydrogen plant in Georgia set a record, producing 300 metric tons of liquid green hydrogen. Lastly, industry giants Chart Industries and Flowserve merged in an all-stock deal, valuing the new combined entity at \$19 billion.

Perhaps the most noteworthy action this past month was the collective action of 250 companies, non-profits, labor unions, hydrogen hubs, and other stakeholders. On June 6th, these groups united to urge Senate leadership to preserve the hydrogen tax credit, showcasing broad-based support for the industry. Notable signatories included the American Petroleum Institute, American Gas Association, the Business Council for Sustainable Energy, and many others.

The pressure exerted by this united front of industry leaders is already beginning to yield positive outcomes. As of June 11, 2025, the potential rescue of the hydrogen tax credit is reportedly back on the table. Republican Senators John Cornyn (TX) and Shelley Moore Capito (WV), both of whom have large hydrogen projects in their home states, have confirmed to the press that the proposal to extend the 45V production tax credit through December 31, 2029, is actively under consideration by Republican leadership in the Senate.

While the pace and scale of hydrogen developments may have been slower than initially anticipated, it would be remiss to overlook the incremental progress happening daily. Alongside the major billion-dollar projects, smaller-scale advances are steadily emerging. For example, New York State is actively seeking participants for a \$3.7 million fuel cell grid resilience project, Ballard Power Systems is supplying 1.5 MW of fuel cell engines to the Sierra Northern Railway to decarbonize transport, and on the geologic hydrogen front, HyTerra has detected significant concentrations of geologic hydrogen at its Sue Duroche 3 site in Kansas and is expanding its operations.

As the North American hydrogen market continues to evolve rapidly, SEP remains committed to closely tracking the most relevant developments to keep you informed. Thank you for reading, and we look forward to next month's update.

アナリストノート(2025年5月1日～6月11日)

2025年5月から6月初旬にかけて、北米の水素市場には大きな政治的逆風と不確実性が吹き荒れました。4月中旬、米国下院歳入委員会は、トランプ大統領が推進する「大きく美しい1つの法案(The One, Big, Beautiful Bill)」を26対19の投票で可決しました。この法案には、水素製造に対する45V税額控除を早期に終了させる条項が含まれており、また法案成立後2年以上経ってから着工するプロジェクトに対しては、45Q(二酸化炭素回収)税額控除の譲渡可能性が廃止されるなど、クリーンエネルギー関連プログラムの大幅な見直しも盛り込まれています。

そのわずか1週間後、米国下院本会議にて本法案は215対214の僅差で可決され、水素関連の税制優遇措置が今年12月31日以降も維持されるかどうかさがさらに疑問視されています。業界は上院による対応を待ち望んでいますが、特に大規模プロジェクトの中止が相次ぐなか、下院による水素分野への打撃に対する巻き返しは一刻の猶予もない状況です。

このような政治的背景の中で、米国水素市場における主な動向は以下のとおりです。

● 逆風の事例

エア・プロダクツ社は、ルイジアナ州で進めていた45億ドル規模の大型ブルーアンモニアプロジェクトへの支出を停止。ゼネラルモーターズ社は、ミシガン州で予定していた5,500万ドル規模の燃料電池製造工場建設計画を一時停止。クリーブランド・クリフスは、オハイオ州における5億ドル規模の水素ベースの製鉄プロジェクトを正式に断念しました。

● 追い風の事例

5月初旬、世界最大級のブルー水素プロジェクトが前進。丸紅が、テキサス州ベイトウンでエクソンモービル社から年間25万トンのブルーアンモニアを引き取る契約を締結し、さらに同プロジェクトへの資本参加も決定。数日後、インフィニウム社は世界最大のe-fuel製造プラント「Project Roadrunner」の建設をテキサス州で正式に着工。エレクトリック・ハイドロゲン社製の100MW PEM型電解装置を採用。5月下旬、プラグ・パワー社のジョージア州グリーン水素プラントが、液体グリーン水素300トンを生産し、記録を樹立。さらに、チャート・インダストリーズ社とフローサーブ社が全株式交換による合併を発表。新会社の評価額は190億ドルに達する見込み。

最も注目すべき動きとして、6月6日には業界団体、非営利団体、労働組合、水素ハブなどを含む計250の組織が結集し、米国上院指導部に対して水素税額控除の維持を求める共同要請を行いました。署名には、American Petroleum Institute(米国石油協会)、American Gas Association(米国ガス協会)、Business Council for Sustainable Energy(持続可能エネルギービジネス協議会)など、広範な業界ステークホルダーが名を連ねています。

この業界横断的な連携が与える圧力は、すでに良い結果をもたらし始めています。2025年6月11日現在、水素税額控除の「救済策」が再び検討対象に浮上しています。共和党のジョン・コーニン上院議員(テキサス州)およびシェリー・ムーア・キャピト上院議員(ウェストバージニア州)は、いずれも地元で大型水素プロジェクトを抱えており、45V税額控除を2029年12月31日まで延長する案が上院共和党指導部で積極的に協議されていることを認めています。

水素分野の進展は当初の想定よりも緩やかではあるものの、日々の積み重ねによる着実な前進を見落とすべきではないでしょう。数十億ドル規模の大型プロジェクトに加え、小規模での開発も確実に進行中です。たとえば、ニューヨーク州は370万ドルの燃料電池によるグリッドレジリエンス(電力システムの強靱化)プロジェクトへの参加者を公募しており、巴拉ード・パワー・システムズ社はカリフォルニア州のシエラ・ノーザン鉄道向けに1.5MWの燃料電池エンジンを供給。また、地質水素分野ではハイテラ社がカンザス州スー・デュローシェ3サイトにて高濃度の地質水素の濃度を検出し、事業拡大を図っています。

北米の水素市場は今後も急速に進化を続けると予想されます。SEPIは、今後も引き続き最も関連性の高い動向を注視し、皆様に最新情報をお届けしてまいります。最後までお読みいただき、ありがとうございました。来月の更新も、皆様にご有益な情報をお届けできるよう努めてまいります。

Policies / 政策

May 1 - June 11, 2025

6/11/25 - Hydrogen Tax Credit Rescue 'On the Table,' GOP Senator Says

2025年6月11日 水素税額控除の救済策、「検討中」と共和党上院議員が発言

The Senate is considering a plan to save a lucrative tax credit for the production of hydrogen that would be scrapped in the tax-and-spending mega bill passed by the House, key Republicans said. “That’s on the table,” said Senator John Cornyn, a Texas Republican who serves on the Senate’s tax writing committee and has hydrogen projects that would benefit from the incentive in his home state. The incentive was one of several from President Joe Biden’s climate law that would be curbed in the House’s megabill in an effort to help offset the cost of extending President Donald Trump’s tax cuts. However billions of dollars in investments already have been made in hydrogen projects that are depending on the tax break. Senator Shelley Moore Capito, chair of the Senate’s environmental committee who has a hydrogen project in the works in her home state of West Virginia, said extending the time projects have to qualify for the incentive is being discussed. [Full Story](#)

6/06/25 - Fossil-fuel lobby groups join forces with green hydrogen sector in plea to US Senate to save 45V clean H2 tax credits

2025年6月6日 化石燃料ロビー団体、グリーン水素セクターと共同で45VクリーンH2税額控除の存続を米上院に請願

The US Senate must keep the clean hydrogen tax credit, worth up to \$3/kg of H2, in place for projects that begin construction this decade, urges a letter signed by more than 200 industry associations, trade unions, and individual companies. The “One Big Beautiful Bill”, which passed a House of Representatives vote last month, currently includes a clause to move the deadline for projects to begin construction in order to claim the 45V clean hydrogen production tax credit from the end of 2033 to the end of this year. However, this is expected to kill nearly all planned green hydrogen projects in the US. The letter, addressed to Senate majority leader John Thune and finance committee chairman Mike Crapo, also includes signatures from fossil fuel lobby groups, such as the American Petroleum Institute and the American Gas Association — which appear to be motivated by a desire to keep the tax credit in place to benefit blue hydrogen projects. [Full Story](#)

5/30/25 - Trump administration pulls \$3.7bn in clean energy funding, including more than \$331m for ExxonMobil hydrogen project

2025年5月30日 トランプ政権、クリーンエネルギー資金37億ドルを撤回、エクソンモービルの水素プロジェクトへの3億3,100万ドル以上を含む

US energy secretary Chris Wright has today announced that 24 awards of funding via the Office of Clean Energy Demonstrations (OCED) will be terminated, representing a combined total of

\$3.7bn. According to a list seen by Hydrogen Insight, this includes more than \$331m that had been awarded to ExxonMobil's planned replacement of natural gas burners for its olefins plant in Baytown, Texas, with equipment capable of running on H₂. These burners are currently used in steam cracking furnaces to produce ethylene, a chemical feedstock used in textiles, synthetic rubbers, and plastic resins. [Full Story](#)

5/29/25 - Trump administration loosens rules for blue hydrogen projects to claim threatened 45V tax credit

2025年5月29日 トランプ政権、ブルー水素プロジェクトの45V税額控除適用要件を緩和

The US Department of Energy has announced that it has revised the guidelines for calculating greenhouse gas emissions in order to claim the 45V clean hydrogen production tax credit, worth up to \$3/kg. While the previous guidelines required blue hydrogen producers to use national averages for methane leakage throughout the value chain, the new model now allows companies to input specific methane loss data per project — a change that oil majors ExxonMobil and BP had argued for while the guidelines were being drawn up by the previous Biden administration. Some developers, such as Air Products and CF Industries, have chosen to progress their blue H₂ projects based on claiming the 45Q tax credit for carbon capture instead, which offers up to \$85 per tonne of industrial CO₂ which is permanently sequestered.

[Full Story](#)

5/22/25 - US bill to gut 45V hydrogen tax credit passes House of Representatives

2025年5月22日 45V水素税額控除を骨抜きにする法案が下院を通過

The US House of Representatives has passed the President Trump-backed tax and spending bill that plans to terminate the 45V clean hydrogen production tax credit. Trump's "One Big, Beautiful Bill," passed with a vote of 215-214 on party lines and will now head to the Senate for further debates. Centred on tax and spending cuts, the bill includes a motion to end the Section 45V hydrogen production tax credit from the Biden-era Inflation Reduction Act (IRA), which had been credited with catalysing the US hydrogen sector. Under the bill, hydrogen projects that enter construction after 31 December 2025 will not be able to claim 45V, effectively gutting its long-term, widespread value. [Full Story](#)

5/14/25 - US House committee approves bill that could terminate 45V hydrogen tax credit

2025年5月14日 米国下院委員会、45V水素税額控除を廃止する可能性のある法案を承認

A House committee has approved a tax package that looks to repeal the US' clean hydrogen production tax credit, setting the stage for a fierce congressional debate. Despite a slew of attempts by Democrats to rewrite the package, the House Ways and Means Committee approved the so-called 'One Big, Beautiful Bill' on a party-line 26-19 vote after a marathon session that went on through the night. The bill includes tax cut extensions and sweeping rollbacks of clean energy and healthcare funding, as well as a motion to terminate the Section 45V tax credit from the Biden-era Inflation Reduction Act (IRA). Under the proposal, which will now head to the House floor, hydrogen projects that enter construction after 31 December 2025 will not be able to claim 45V, effectively gutting its long-term, widespread value. [Full Story](#)

Policies / 政策

May 1 - June 11, 2025

05/14/2025 - Industry warns 45V hydrogen rollback would be 'catastrophic' as Committee debates

2025年05月14日 委員会審議中、45V水素税額控除の撤回を「壊滅的」になると業界が警告

Eliminating the US' clean hydrogen production tax credits would be a "catastrophic step backwards," the head of the Fuel Cell and Hydrogen Energy Association (FCHEA) has warned. Frank Wolak's comments come as the House Ways and Means Committee enters its eighth hour of debate on the so-called "One Big, Beautiful Bill" that looks to gut clean energy provisions from the Inflation Reduction Act (IRA) and extend tax credits. Under the bill, Republicans are hoping to "terminate" Section 45V tax credit for hydrogen plants that begin construction after 31 December 2025. Under current legislation, the tax credit is set to expire in 2033. [Full Story](#)

5/08/25 - US DOE taking 'business-like' approach to hydrogen hub decisions, says Wright

2025年05月8日 米国エネルギー省、水素ハブの決定に「ビジネスライクな」アプローチとライト氏

US Energy Secretary Chris Wright pushed back against rumours of political bias in hydrogen hub funding during a House committee, saying the Department of Energy is evaluating projects "the same way any business would look at investments." Wright faced a grilling by Representatives in the House Appropriations Committee hearing on Wednesday (May 7), where questions were raised about reports that the Department of Energy (DOE) could axe funding for blue state hubs. Brushing off the questions, Wright said he didn't know where the rumours were coming from, "because it's not coming from us." He told the committee that the DOE was taking a "thoughtful, thorough, and deliberate" review of all DOE-funded projects – hubs included.

[Full Story](#)

Projects / プロジェクト

May 1 - June 11, 2025

6/10/25 - HyTerra Expands Drilling Program at Nemaha as White Hydrogen Indicators Strengthen

2025年6月10日 ハイテラ社、ネマハでの掘削プログラムを拡大、ホワイト水素の兆候強まる

HyTerra's Nemaha Project in Kansas has entered a critical new phase with the company confirming expansion of its drilling program to three firm wells, supported by early signs of a viable natural hydrogen and helium system. The Blythe 13-20 well, completed on time and budget, is the most recent development, with mud gas readings and geological data reinforcing initial findings from the earlier Sue Duroche 3 well. The decision to add a third well, McCoy 1, reflects growing confidence in a play that remains high-risk but potentially transformative for the

emerging natural (white) hydrogen market. Drilled to a depth of 5,300 feet (1,615 meters), Blythe 13-20 is nearly 2.5 times deeper than the historical Scott-1 well from 1982, which reported hydrogen concentrations of up to 56% in the sedimentary section. Located just 1.4 km east of that well, Blythe 13-20 traversed both sedimentary rock and Precambrian basement, probing a new geological play that had not previously been tested at such depths. The preliminary mud gas log data, acquired in real-time during drilling and collected at the surface, indicate the presence of both hydrogen and helium. These findings are undergoing independent laboratory verification by Isotech Laboratories in Illinois, which previously confirmed up to 96% hydrogen and 5% helium from Sue Duroche 3. [Full Story](#)

6/10/25 - New York opens \$3.7m funding call for hydrogen fuel cell grid-resilience projects

2025年6月10日 ニューヨーク州、水素燃料電池グリッド・レジリエンス・プロジェクトに370万ドルの資金提供を開始

New York's energy R&D agency has opened a \$3.7m funding call for hydrogen fuel cell development and demonstration projects that could support the state's grid resilience. The New York State Energy Research and Development Authority (NYSERDA) said it was seeking proposals to develop designs for hydrogen fuel cell solutions that could work as "firm capacity" for grid balancing or manufacturing decarbonisation. The funding programme will initially award up to \$250,000 for scoping efforts, including design evaluation, completion of designs, initial costs and emissions analysis. [Full Story](#)

6/09/25 - Plug Power and Allied Green Expand Strategic Collaboration with New 2 GW Electrolyzer Deal in Uzbekistan

2025年6月9日 プラグ・パワー社とアライド・グリーン社、ウズベキスタンでの2GW電解装置の新規契約で戦略的提携を拡大

Plug Power Inc. (NASDAQ: PLUG), a global leader in comprehensive hydrogen solutions, today announced a significant expansion of its partnership with Allied Green Ammonia (AGA), with a new 2 gigawatt (GW) electrolyzer opportunity tied to a sustainable fuels project in Uzbekistan. The deal will be executed during the Tashkent International Investment Forum, where Sanjay Shrestha, President of Plug, and Alfred Benedict, Managing Director of Allied Green, will be on site for the official signing. Plug's electrolyzer technology has been selected as the foundation of a new \$5.5 billion green chemical production facility in Uzbekistan that will produce sustainable aviation fuel, green urea, and green diesel. The project is backed by the Government of Uzbekistan and further strengthens Plug's position as the preferred electrolyzer provider for global-scale decarbonization initiatives. [Full Story](#)

6/05/25 - Cleveland-Cliffs drops \$500m hydrogen steel plans in Ohio, refocuses on fossil fuels

2025年6月5日 クリーブランド・クリフス社、オハイオ州での5億ドルの水素鉄鋼計画を断念、化石燃料に再注力

Cleveland-Cliffs has officially abandoned its \$500m hydrogen-based steel project in Middletown, Ohio, and shifted focus to extend the life of its coal-fired blast furnace. CEO Lourenco

Projects / プロジェクト

May 1 - June 11, 2025

Goncalves told investors last month that the company could shift away from hydrogen and revert to greater reliance on fossil fuels at its steel decarbonisation project, citing a lack of support from the Trump Administration. The Middletown facility had been backed by a \$500m US Department of Energy (DOE) grant under former President Joe Biden. But Goncalves admitted that even with the grant, Cleveland-Cliffs would need to spend an additional \$1.1bn to replace the coal-based blast furnace with a hydrogen-fuelled plant. [Full Story](#)

6/04/25 - Preparations Continue for Major Green Hydrogen Production Plant in California

2025年6月4日 カリフォルニア州での大規模グリーン水素製造プラントの建設準備進む

A hydrogen production company that develops the fuel using renewable energy is moving forward with plans for a \$1.85-billion solar-powered manufacturing facility in California. Element Resources, with corporate headquarters in Houston, Texas, and a project development office in San Diego, California, said construction of its Lancaster Clean Energy Center (LCEC) in Lancaster, California, will begin later this year. The company has said the LCEC would be the “largest off-grid renewable green hydrogen production project in the U.S.” The facility is sited on nearly 2,100 acres in Lancaster, about 70 miles north of Los Angeles. Element has said the new facility is expected to produce 22,000 tons of green hydrogen each year, with production also expected to expand. California Gov. Gavin Newsom earlier this year said Element Resources is among the companies receiving funds in the form of tax credits from the state’s California Jobs First program. [Full Story](#)

5/30/25 - Plug Power touts record monthly output at Georgia hydrogen plant

2025年5月30日 プラグ・パワー社、ジョージア州の水素プラントで月間生産量で過去最高を記録

US hydrogen company Plug Power Inc (NASDAQ:PLUG) said its hydrogen plant in Woodbine, Georgia, produced 300 tonnes of liquid hydrogen in April, the largest amount in any month since the facility opened in January 2024. [Full Story](#)

5/20-25 - Infinium officially begins construction on world's largest green hydrogen-based fuels plant

2025年5月20日 インフィニウム社、世界最大のグリーン水素ベース燃料プラントの建設を正式に開始

E-fuels project developer Infinium has officially announced that construction is under way for Project Roadrunner, which is expected to be the world’s largest green hydrogen-based aviation fuel production site once operational in 2027. Electrolyser manufacturer Electric Hydrogen yesterday announced that it would supply its 100MW integrated green hydrogen plant to the project, which Infinium confirms will produce 23,000 tonnes a year of e-fuel a year. Infinium has also contracted 150MW of wind energy from NextEra Energy Resources through a long-term power purchase agreement. Infinium has offtake agreements in place with American Airlines and International Airlines Group (IAG), the parent company of British Airways, Iberia, Aer Lingus and Vueling.

[Full Story](#)

5/19/25 - Infinium will deploy Electric Hydrogen's electrolyser plant at large-scale eFuels facility in Texas

2025年5月19日 インフィニウム社、テキサス州の大規模eFuel施設にエレクトリック・ハイドロジェン社の電解槽プラントを導入

American manufacturer of high-power electrolyser plants Electric Hydrogen has announced that Infinium, a leading producer of commercial eFuels, has selected Electric Hydrogen's 100 megawatt (MW) HYPRPlant for its large-scale eFuels facility in Texas, Project Roadrunner. Electric Hydrogen's HYPRPlant is a complete solution that lowers hydrogen total installed project cost by up to 60 percent relative to other electrolyser solutions. The company manufactures HYPRPlants in the United States: its proprietary electrochemical stacks are built in Electric Hydrogen's Massachusetts gigafactory while the chemical process modules are manufactured in Texas, drawing on strong local expertise from the oil and gas industry.

[Full Story](#)

05/16/2025 - GM Hits Pause on Detroit Hydrogen Fuel Cell Plant Amid Infrastructure and Market Hurdles

2025年5月16日 GM、インフラと市場の課題を受けデトロイトの水素燃料電池工場計画を一時停止
General Motors has suspended plans to build its \$55 million hydrogen fuel cell manufacturing facility in Detroit, Michigan. Announced just eight months ago, the 292,500-square-foot facility at the former State Fairgrounds site was expected to generate 300 skilled jobs and become a cornerstone of GM's alternative fuel strategy. But by May 2025, the project was put on indefinite hold—signaling growing industry caution around hydrogen's near-term viability. The decision reflects a wider industry recalibration. While GM continues to highlight its commitment to hydrogen—particularly through its joint venture with Honda, established in 2017—it has acknowledged growing concerns about the commercial readiness of hydrogen technologies.

[Full Story](#)

5/07/25 - Marubeni and ExxonMobil's low-carbon ammonia deal marks major step in unleashing new energy supply

2025年05月07日 丸紅とエクソンモービルの低炭素アンモニア契約、新たなエネルギー供給を可能にする大きな一歩に

Marubeni Corporation (Marubeni) and Exxon Mobil Corporation (ExxonMobil) (NYSE: XOM) have signed a long-term offtake agreement for approximately 250,000 tonnes of low-carbon ammonia per year from ExxonMobil's facility in Baytown, Texas, which is expected to produce virtually carbon-free hydrogen with approximately 98% of CO2 removed and low-carbon ammonia. Marubeni will supply the ammonia mainly to Kobe Power Plant, a fully owned subsidiary of Kobe Steel, Ltd. (Kobe Steel). Marubeni has also agreed to acquire an equity stake in ExxonMobil's low-carbon hydrogen and ammonia facility. [Full Story](#)

Projects / プロジェクト

May 1 - June 11, 2025

5/01/25 - Air Products delays Louisiana hydrogen project and wants to shrink risks

2025年05月05日 エア・プロダクツ社、ルイジアナ州の水素プロジェクトを延期、リスク縮小を図る
Industrial gas major Air Products has delayed the start-up of its multi-billion-dollar Louisiana blue hydrogen project and is looking to divest its stakes in the carbon sequestration and ammonia production elements. The Louisiana project was initially expected to be operational in 2026 but has now been delayed to late 2028 or early 2029. Under the original plan, Air Products was leading on all elements of the project. The plant is expected to produce 1,700 tonnes of blue hydrogen per day. The company originally planned to inject much of the output into its 700-mile US Gulf Coast hydrogen pipeline, with a portion being turned into ammonia for export. [Full Story](#)

Mobility/Transportation / モビリティ／輸送

May 1-June 11, 2025

6/05/25 - Ballard announces 1.5 MW fuel cell engine order for Sierra Northern Railway

2025年6月5日 バラード社、シエラ・ノーザン鉄道向けに**1.5MW**燃料電池エンジンの受注を発表
Ballard Power Systems (NASDAQ: BLDP) (TSX: BLDP) today announced the signing of a new supply agreement with California-based rail operator Sierra Northern Railway (<https://www.sierranorthern.com>) for the supply of 1.5 MW of fuel cell engines, expected to be delivered in 2025. As part of Sierra Northern Railway's efforts to decarbonize its operations across California, 12 Ballard FCmove®-XD engines will be supplied to convert three diesel switching locomotives to hydrogen-fueled, zero-emission locomotives. The FCmove®-XD modules are specifically designed for heavy-duty applications, offering high reliability, durability, efficiency and power density, and provide the benefits of zero emissions without the need for costly overhead catenary systems. [Full Story](#)

5/29/25 - Avina to Develop Nation's First On-Site SAF Production Facility at Pittsburgh International Airport

2025年6月11日 アヴィナ社、ピッツバーグ国際空港に国内初のオンサイト**SAF**生産施設を開発へ
Pittsburgh International Airport and Avina Synthetic Aviation Fuel are partnering to develop the first on-airport sustainable aviation fuel production facility utilizing one of the very first alcohol-to-jet pathways in the U.S. Avina will build a state-of-the-art facility to provide ASTM certified fuel on airport property just south of PIT's terminal by deploying KBR's innovative PureSAFSM alcohol-to-jet technology, developed and owned by Swedish Biofuels AB and exclusively licensed globally by KBR. The facility, through multiple phases of development, is expected to produce over 100 million gallons of SAF annually, to meet local and regional commercial and cargo needs at PIT and beyond. Avina's SAF facility will provide the opportunity

Mobility/Transportation / モビリティ／輸送

May 1-June 11, 2025

for hundreds of full-time jobs, when constructed. The plant will have a carbon intensity that is at least 65% lower than that of conventional jet fuel. [Full Story](#)

Technology/Research / 技術/研究

May 1 - June 11, 2025

5/28/25 - US researchers optimise liquid hydrogen system for aviation

2025年5月28日 米国の研究者、液体水素システムを航空用に最適化

A liquid hydrogen storage and delivery system designed by researchers at the FAMU-FSU College of Engineering in the US state of Florida aims to deliver zero-emission aviation while addressing key storage and cooling challenges. A team has designed a system for a 100-passenger aircraft hybrid-electric aircraft that draws power from both hydrogen fuel cells and turbine-driven superconducting generators. Hydrogen produces more energy per kilogram than conventional jet fuel and emits no carbon dioxide when burnt, making it practical for aviation. However, it is much less dense, which means it must be stored as a supercooled (-253°C) liquid to take up less space. [Full Story](#)

5/22/25 - Environmental group launches 'unparalleled' study into hydrogen emissions — with help from four major H₂ producers

2025年5月22日 環境団体が水素製造大手4社の協力を得て、水素排出に関する「前例のない」調査を開始

Global non-profit organisation Environmental Defense Fund (EDF) has launched a major study of hydrogen emissions around significant H₂ infrastructure using high-precision instruments — and it has secured the support of four major industry players to do so. Oil giants Shell and TotalEnergies and industrial gas firms Air Products and Air Liquide have all agreed for researchers from EDF's partners at major US and Dutch universities to take readings from around their installations, and provide operational context to inform the research. The initiative aims to fill a gap where “little empirical data exist today”, EDF said in a statement, adding: “With commercial hydrogen operations poised for global expansion, the new information will help producers, regulators, investors, and others understand potential emission sources and how to address them.” [Full Story](#)

Investments, Mergers, Acquisitions / 投資、合併、買

May 1 - June 11, 2025

6/04/25 Chart Industries and Flowserve to merge in about \$19 billion deal

2025年6月4日 チャート・インダストリーズ社とフローサーブ社が約190億ドルで合併へ

U.S.-based equipment manufacturer Chart Industries and flow control systems maker Flowserve Corp said on Wednesday they will merge in an all-stock deal expected to have an enterprise value of about \$19 billion. Chart shareholders will own about 53.5% of the combined company, while Flowserve shareholders will hold the rest. Chart CEO Jill Evanko will serve as the chair of the new company's board, while Flowserve CEO Scott Rowe will have the top job at the combined company. The deal is expected to generate about \$300 million in annual cost savings within three years of the transaction, which is expected to close in the fourth quarter of 2025.

[Full Story](#)

5/13/25 - United Announces Investment in Power-to-Liquid Fuels Company Twelve

2025年05月14日 ユナイテッド航空、液化燃料会社Twelveへの投資を発表

United has announced it is investing in Twelve, a low carbon fuels company that uses a process similar to photosynthesis to transform CO2 and water into sustainable aviation fuel (SAF) using renewable energy. This investment by the United Airlines Ventures Sustainable Flight Fund follows Twelve's \$83 million Series C funding round and project financing for its first SAF production facility, AirPlant™ One, located in Moses Lake, Washington. The facility is expected to begin production this year and plans to produce 50,000 gallons of SAF annually. Last year, Twelve secured a SAF purchase agreement with a large European-based airline company. Under the 14-year contract, Twelve will supply 260 million gallons of SAF to support its five airlines. This long-term agreement, combined with the development of Twelve's first plant, underscores the demand for the company's innovative technology and SAF. [Full Story](#)