NORTH AMERICAN H2 NEWS BRIEF

北米水素業界ニュース概要

SAORADH™ ENTERPRISE PARTNERS

AUGUST 1–31, 2025

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

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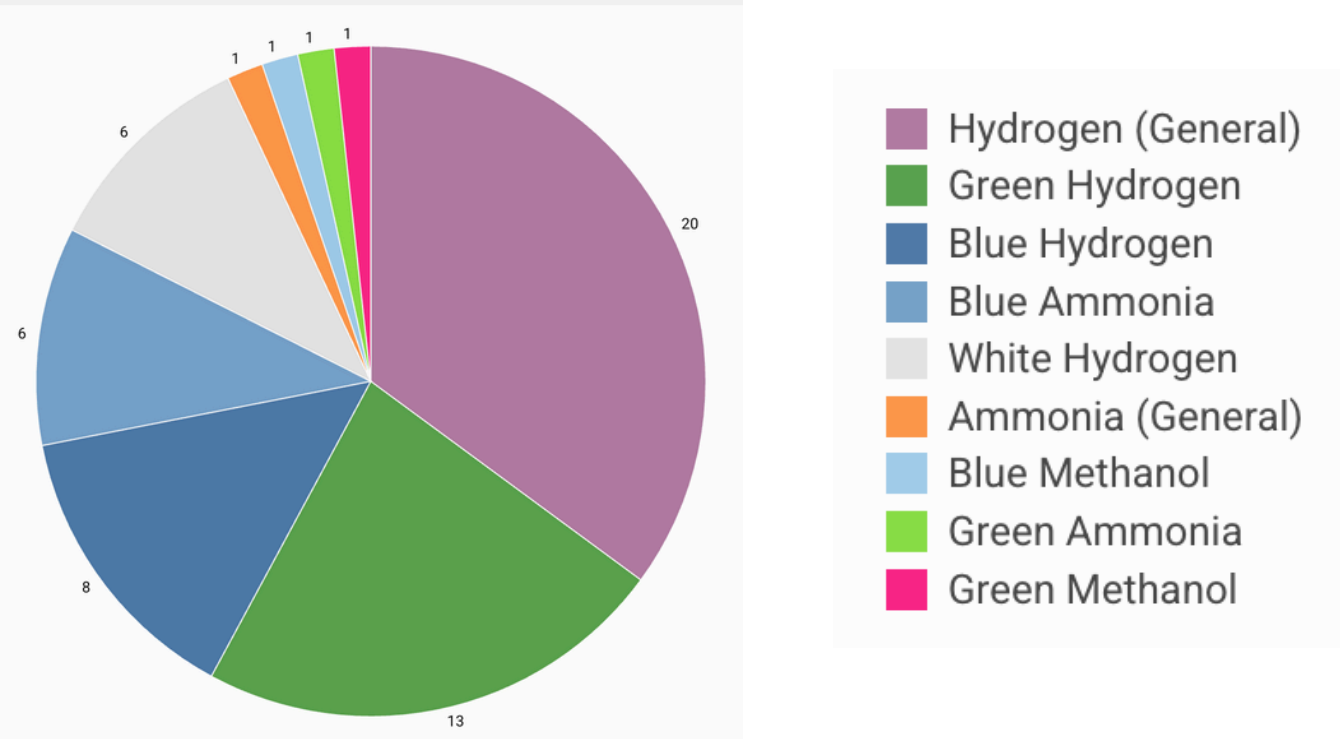
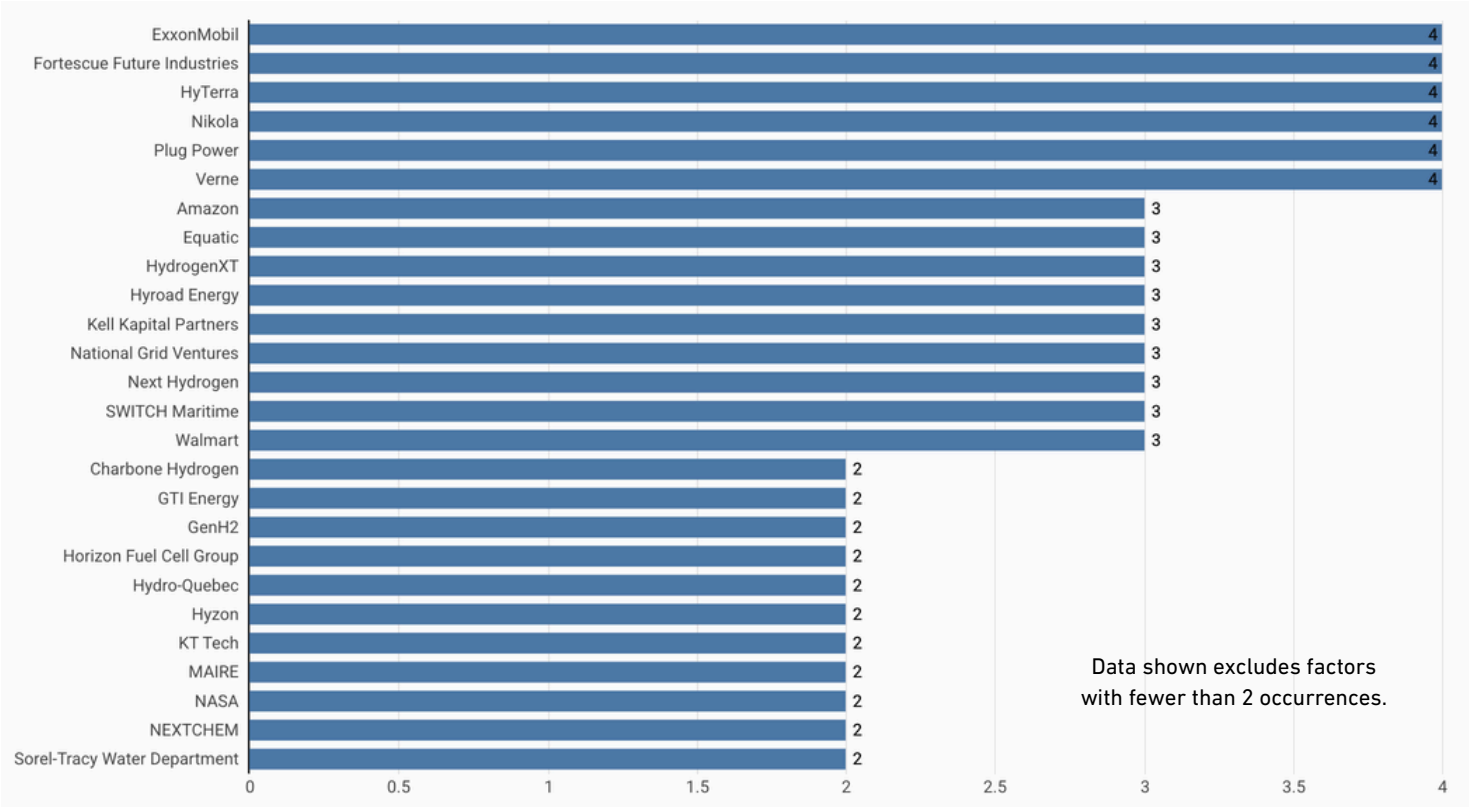
News Count by Product / 製品別ニュース数

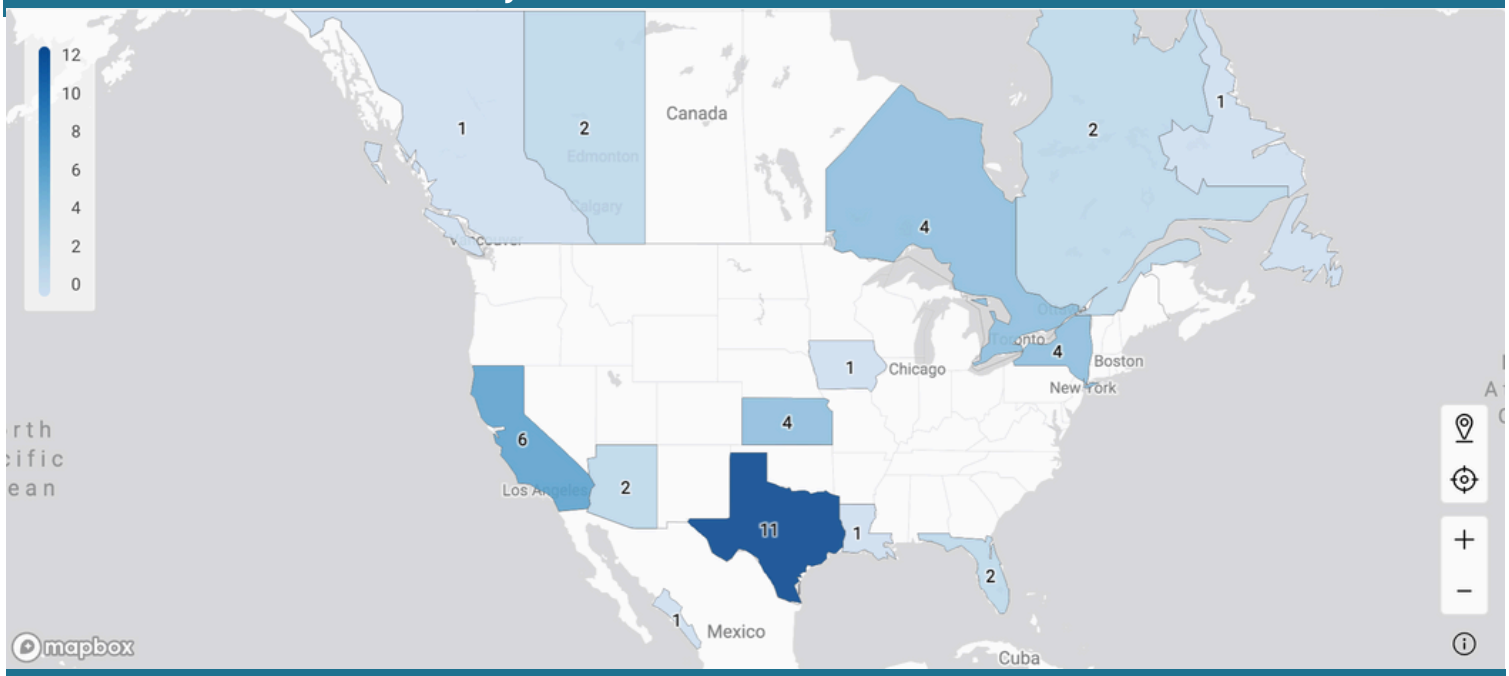


News Count by Company Name / 企業別ニュース数

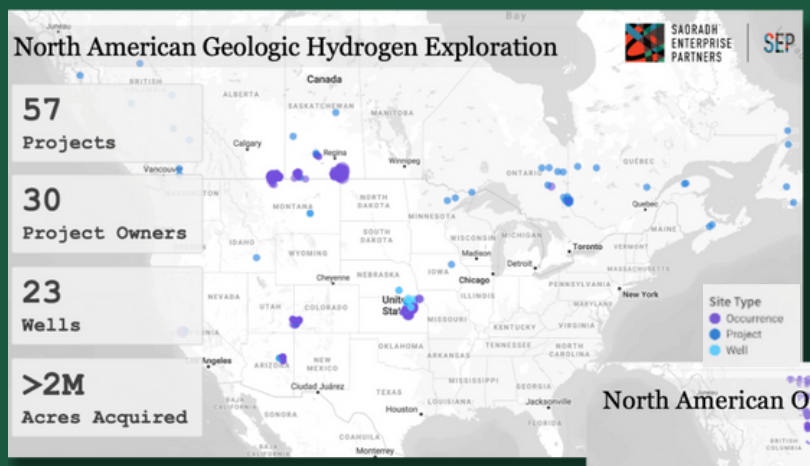


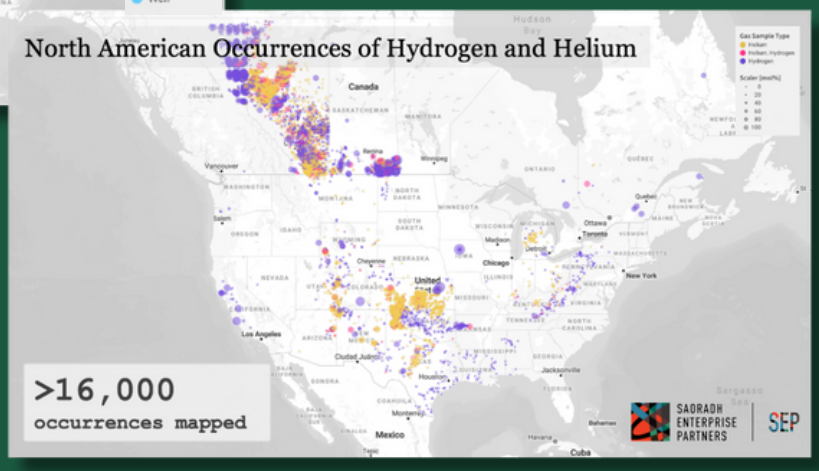
Monthly News Statistics / 今月のニュース統計

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



North American Geologic Hydrogen Tracker / 北米天然水素追跡ツール





SEP Analyst Notes / SEPアナリスト解説

Analyst Note (August 1-31, 2025)

July's momentum carried steadily into August, fueled by increased regulatory clarity and a more feasible 45V commence-construction deadline under the final version of the "One Big Beautiful Bill." These factors resulted in an uptick of hydrogen project activity, alongside announcements of several key technology advancements. Key technology-related highlights include:

- California-based startup **Equatic** secured $11.6 million in Series A funding to expand its proprietary Seawater Electrolysis technology, which generates green hydrogen directly from seawater while capturing and sequestering CO_2 permanently.
- **SunHydrogen** demonstrated live operation of its commercial-scale 1.92m² hydrogen module, yielding renewable hydrogen solely from sunlight and water, a breakthrough underscoring the technology's scalability and off-grid viability.
- New York State granted $2 million to **Plug Power** and **Verne** for the development of cryo-compressed hydrogen trailers aimed at enhancing the cost-efficiency of hydrogen distribution and storage.
- **Ohmium International** unveiled its third-generation PEM electrolyzer, which minimizes land requirements to a compact 29.7m² per MW.
- The **U.S. Naval Research Laboratory** (NRL) prototyped a Hydrogen Small Unit Power (H-SUP) system to bolster Marine Corps readiness in expeditionary operations by reducing detectability. This portable fuel-cell generator offers superior energy density compared to batteries and emits lower audible and thermal signatures than traditional combustion units.

Alongside advancements in hydrogen technologies, both ongoing and newly announced hydrogen production projects, including ammonia and methanol derivatives, continued to exhibit strong upward momentum.

- **Charbone Hydrogen** secured electrical connection and water supply for its flagship green hydrogen facility in Quebec, partnering with Hydro-Quebec and the Sorel-Tracy Water Department.
- Houston-based **HydrogenXT** closed a definitive Term Sheet for $900 million in debt and equity financing from **Kell Kapital Partners Limited** to construct 10 blue hydrogen production and dispensing plants in California, Oregon, Washington, North Dakota, and other vital U.S. logistics routes.
- **GoSolar Energy** outlined plans for a major low-carbon ammonia facility in Northern Arizona, incorporating up to 8 GW of on-site solar and 1 GW of wind capacity. At full scale, it would generate up to 12 million tons of blue ammonia and 1.5 million tons of green ammonia yearly.
- Newfoundland and Labrador extended deadlines for critical land reserves to aid wind-hydrogen developers in obtaining financing and finalizing designs: the Wind Energy Land Reserve now runs until February 28, 2026 (effective August 22), and the Wind Energy Contingency Land Reserve until March 31, 2026, easing strains from investor talks and pre-development tasks.
- **Air Products** completed the initial fill of the world's largest hydrogen sphere at NASA's Kennedy Space Center, delivering more than 50 trailer loads totaling over 730,000 gallons of liquid hydrogen to support the agency's Artemis missions.

Amid these positive developments, several prominent projects expressed concerns or faced outright cancellations. Diminished U.S. federal backing and the compressed 45V timeline emerged as primary hurdles, alongside persistent worries over insufficient demand for low-carbon hydrogen products. This underscores the growing importance of global mechanisms, like Japan's Contract for Difference (CfD) and H2Global/Hintco's green hydrogen auctions, to sustain U.S. export-focused projects. Notable examples of these setbacks include:

- **ExxonMobil** CEO Darren Woods acknowledged that the timeline for the 45V hydrogen tax credit could potentially jeopardize the company's flagship blue hydrogen and ammonia project in Baytown, Texas. "If we can't see an eventual path to a market-driven business, we won't move forward with the project," he said. If ExxonMobil is able to proceed by the new commence-construction deadline, their Baytown complex will yield one billion cubic feet of blue hydrogen per day, much of which would serve as a feedstock for the proposed one million tonnes of annual ammonia production. The plant was initially expected to begin operations in 2028.
- Citing uncertainty and diminishing federal support of green energy, **Fortescue Future Industries** officially scrapped plans for its $550 million green hydrogen project in Buckeye, Arizona.
- Despite launching feasibility studies in 2023 and already co-managing a grey ammonia plant in Freeport, Texas, **BASF** and **Yara** shelved a proposed 1.2 to 1.4 million ton per year blue ammonia facility on the Gulf Coast.

In emerging markets, SEP observed encouraging strides in geologic hydrogen exploration. In the U.S., **HyTerra** detected 83% hydrogen concentrations in mud gas samples from its McCoy 1 well—the deepest drilled to date at 1,696 meters. In Canada, **Max Power Mining** secured an additional $4.5 million to advance its Saskatchewan prospecting.

M&A activity surged in the mobility sector during August. Following **Nikola's** February bankruptcy filing, **HyRoad Energy** acquired its residual hydrogen assets under a "trucking-as-a-service" framework, encompassing 113 Class 8 fuel-cell trucks, spare parts, software, and intellectual property. Separately, **Horizon Fuel Cell Group** bought the IP from **Hyzon Motors**, its former spinout that dissolved in March.

Finally, state-level initiatives persisted in bolstering the hydrogen landscape. In New York, Governor Kathy Hochul allocated over $11 million to five statewide clean hydrogen R&D efforts, including the aforementioned **Plug Power-Verne** partnership. In California, the **First Public Hydrogen Authority** (FPH2) launched a Request for Proposals (RFP) for hydrogen transportation services, targeting vendors to transport gaseous and liquid hydrogen from producers to consumers across the state.

August saw continued momentum in the North American hydrogen sector, driven primarily by regulatory clarity under the "One Big Beautiful Bill." While recent technology innovations are promising and project announcements remain steady, it will be critical to monitor whether large-scale U.S. projects led by major players can advance under today's policy and market conditions. Looking ahead, we will closely track international efforts such as Japan's Contract for Difference (CfD) program and H2Global/Hintco's green hydrogen auctions, which, together with the 45V tax credit, will be instrumental in moving projects forward. We look forward to next month's report, as September has already begun with a surge of activity.

アナリストノート（2025年8月1日～8月31日）

規制の明確化が進んだこと、および「大きく美しい1つの法案（One Big Beautiful Bill）」最終版に基づく45V税額控除の建設開始期限がより現実的なものとなったことが追い風となり、7月の勢いは8月も着実に継続しました。これらの要因により、水素プロジェクトの活動が活発化し、複数の重要な技術進歩も発表されました。

主要な技術関連のハイライトは以下の通りです。

- カリフォルニア州に拠点を置くスタートアップ企業イクアティックは、独自の海水電解技術を拡大するため、シリーズAで1,160万ドルの資金を確保しました。この技術は、海水から直接グリーン水素を生成すると同時に、CO2を永久に回収・隔離するものです。
- サン・ハイドロジェン社は、商用規模の1.92m²水素モジュールの稼働を実証し、太陽光と水のみから再生可能水素を生成しました。同技術の拡張性とオフグリッドでの実用性を裏付ける画期的な成果となりました。
- ニューヨーク州は、水素の流通と貯蔵の費用対効果を高めることを目的とした低温圧縮水素トレーラーの開発に対し、プラグパワーとヴェルヌ社に200万ドルの助成金を交付しました。
- オームイウム・インターナショナルは、第3世代PEM電解装置を発表しました。土地要件を最小限に抑え、1MWあたりわずか29.7m²のコンパクトサイズを実現します。
- 米国海軍調査研究所（NRL）は、探知されにくくすることで海兵隊の遠征作戦における即応性を強化するため、小型水素電源装置（H-SUP）のプロトタイプを開発しました。この携帯型燃料電池発電機は、バッテリーよりも優れたエネルギー密度を提供し、従来の燃焼式ユニットよりも聴覚的および熱的兆候（音や熱）が少ないのが特徴です。

水素技術の進歩と並行して、アンモニアやメタノールなどの派生品を含む既存および新規発表の水素生産プロジェクトも、引き続き強い上昇傾向を示しました。

- シャルボン・ハイドロジェンは、ケベック州の主要なグリーン水素施設向けに、ハイドロ・ケベックおよびソレル・トレーシー水道局と提携し、電力接続と給水の確保を完了しました。
- ヒューストンを拠点とするハイドロジェンXTは、カリフォルニア州、オレゴン州、ワシントン州、ノースダコタ州、およびその他の重要な米国の物流ルートに10カ所のブルー水素製造・供給プラントを建設するため、ケル・キャピタル・パートナーズから9億ドルの負債および株式による資金調達に関する最終タームシートを締結しました。
- ゴーソーラー・エナジーは、アリゾナ州北部に大規模な低炭素アンモニア施設の計画概要を発表しました。この施設には、最大8GWの太陽光発電と1GWの風力発電設備が併設され、フル稼働時には年間最大1,200万トンのブルーアンモニアと150万トンのグリーンアンモニアを生産する見込みです。
- ニューファンドランド・ラブラドール州は、風力水素開発事業者が資金調達と設計を最終決定するのを支援するため、重要な土地保留地の期限を延長しました。「風力エネルギー土地保留地」は2026年2月28日まで、「風力エネルギー予備土地保留地」は2026年3月31日まで延長され、投資家との交渉や事前開発作業の負担が軽減されます。
- **エアー・プロダクト**は、NASAのケネディ宇宙センターにある世界最大の水素貯蔵球体に初回充填を完了しました。これは、NASAのアルテミス計画を支援するため、合計73万ガロン以上の液体水素を50台以上のトレーラーで輸送したものです。

これらの前向きな進展がある一方で、いくつかの主要プロジェクトが懸念を表明したり、完全に中止に追い込まれたりしました。米国連邦政府の支援縮小と、45V税額控除の期限短縮が主な障壁として浮上しており、低炭素水素製品に対する需要不足の根強い懸念も加わっています。これは、米国が輸出に焦点を当てたプロジェクトを維持するために、日本の差額決済契約（CfD）やH2グローバル/Hintcoのグリーン水素オークションといったグローバルなメカニズムがますます重要になっていることを示唆しています。

これらの逆風の顕著な例は以下の通りです。

- エクソンモービルのダレン・ウッズCEOは、45V水素税額控除の期限が、テキサス州ベイタウンの主力事業であるブルー水素・アンモニアプロジェクトを危うくする可能性があると認めました。「市場主導型の事業への最終的な道筋が見えない場合、プロジェクトは進めない」と同氏は述べています。もしエクソンモービルが新たな建設開始期限までに着工できれば、ベイタウン工場は1日あたり10億立方フィートのブルー水素を生産し、その大部分が年間100万トンのアンモニア生産の原料として利用される予定です。同プラントは当初2028年に操業開始する予定でした。
- フォーテスキュー・フューチャー・インダストリーズは、グリーンエネルギーに対する連邦政府の支援の不確実性と縮小を理由に、アリゾナ州バックアイ市での5億5,000万ドルのグリーン水素プロジェクトの計画を正式に撤回しました。
- BASFとヤラ社は、2023年に実現可能性調査を開始し、すでにテキサス州フリーポートでグレーアンモニア工場を共同管理していたにも関わらず、湾岸地域に計画されていた年間120万～140万トンのブルーアンモニア施設の計画を棚上げしました。

新興市場では、地質水素探査において有望な進展が見られました。

- 米国では、ハイテラ社がマッコイ1号井（深さ1,696メートルで現時点で最深）から採取した泥ガスサンプルで83%という高い水素濃度を検出しました。
- カナダでは、マックス・パワー・マイニングがサスカチュワン州での探査を進めるため、追加で450万ドルを確保しました。

8月には、モビリティ分野でのM&A活動が急増しました。

- 2月に破産申請したニコラの残存水素資産を、ハイロード・エナジー社が「トラッキング・アズ・ア・サービス」という枠組みで取得しました。これには、113台のクラス8燃料電池トラック、予備部品、ソフトウェア、知的財産が含まれます。
- これとは別に、ホライゾン・フューエル・セル・グループは、3月に解散した元スピンオフ会社ハイゾン・モーターズの知的財産を買収しました。

最後に、州レベルでの取り組みも水素産業の基盤強化を継続しました。

- ニューヨーク州では、キャシー・ホークル知事が、前述のプラグ・パワーとヴェルヌ社の連携を含む、州の5件のクリーン水素研究開発事業に1,100万ドル以上を割り当てました。
- カリフォルニア州では、ファースト・パブリック・ハイドロジェン・オーソリティ（FPH2）が水素輸送サービスに関する提案依頼書（RFP）を発表し、州内の生産者から消費者へ気体および液体水素を輸送する業者を募集しました。

8月は、「One Big Beautiful Bill」による規制の明確化を主な原動力として、北米の水素セクターで勢いが継続しました。最近の技術革新は有望であり、プロジェクト発表も安定していますが、主要企業が主導する米国の大規模なプロジェクトが、現行の政策と市場環境下で進展できるかどうかを注視することが重要です。

今後の展望として、日本の差額決済契約（CfD）プログラムやH2グローバル/Hintcoのグリーン水素オークションといった国際的な取り組みを注視していきます。これらは、45V税額控除と相まって、プロジェクトを前進させる上で非常に重要な役割を果たすでしょう。9月はすでに活動が急増し始めているため、来月のレポートをお届けするのも楽しみです。

Policies / 政策

August 1-31, 2025

08/25/2025 - Newfoundland Extends Land Reserves to Give Wind-to-Hydrogen Developers More Time

2025年8月25日　ニューファンドランド州、風力利用の水素製造開発向け土地保留期限を延長

Newfoundland and Labrador has extended key land reserve deadlines to give wind-hydrogen project developers more breathing room as they seek financing and finalize project plans. Effective August 22, the Crown lands Wind Energy Land Reserve has been pushed to February 28, 2026, while the Wind Energy Contingency Land Reserve has been extended until March 31, 2026. The move is designed to ease the pressure on developers still negotiating with investors and carrying out pre-development work across the province. Currently, six companies are advancing wind-hydrogen projects in Newfoundland and Labrador: EverWind NL Company, Exploits Valley Renewable Energy Corporation, Toqlukuti'k Wind and Hydrogen, World Energy GH2 Ltd., Argentia Renewables LP, and North Atlantic Refining Limited. Several of these projects aim to leverage the province's abundant wind resources to produce green hydrogen and ammonia for both domestic use and export markets. **Full Story**

08/22/2025 - New York State Awards $11M for Clean Hydrogen R&D Projects

2025年8月22日　ニューヨーク州、クリーン水素研究開発に1,100万ドルを助成

Governor Kathy Hochul today announced more than $11 million has been awarded to five clean hydrogen research and development projects. The awarded projects will demonstrate new technology designs, cost reductions associated with clean hydrogen storage and distribution, evaluate large-scale clean hydrogen storage opportunities, and deploy zero-emission hydrogen-powered transportation. Today's announcement helps to address key barriers to the wider adoption of clean hydrogen as a potential solution to decarbonize industrial processes, hard-to-electrify sectors, such as transportation, and for grid support in the State's energy transition. "New York's investments in clean hydrogen are helping to unlock this emerging resource as a potential contributor to the state's affordable, abundant, and reliable energy system," Governor Hochul said. "Advancing alternative fuels like clean hydrogen will grow our clean energy economy while reducing emissions statewide." **Full Story**

-News Stories Continue

Projects / プロジェクト

August 1-31, 2025

08/26/2025 - BASF and Yara end joint project for low-carbon ammonia at U.S. Gulf Coast
2025年8月26日　BASFとヤラ社、米国湾岸地域での低炭素アンモニア共同プロジェクトを終了
BASF and Yara International ASA have jointly decided to discontinue their project to develop a low-carbon ammonia production facility with carbon capture and storage in the U.S. Gulf Coast region. This decision reflects the companies' commitment to focus on initiatives with the highest potential to achieve their respective value creation goals. Yara will continue its ammonia strategy as previously communicated, evaluating and maturing equity investment opportunities in U.S. ammonia to determine the optimal project portfolio. **Full Story**

08/21/2025 - Air Products Successfully Completes First Liquid Hydrogen Fill of the World's Largest Hydrogen Sphere at NASA's Kennedy Space Center
2025年8月21日　エアー・プロダクツ、NASAケネディ宇宙センターで世界最大の液化水素球体に初充填
Air Products announced it has successfully completed the first fill of the world's largest hydrogen sphere at the NASA Kennedy Space Center located on Merritt Island, Florida. NASA uses liquid hydrogen combined with liquid oxygen as fuel in cryogenic rocket engines. To complete the fill, Air Products delivered over 50 trailer loads of liquid hydrogen – over 730,000 gallons in all - to NASA's new sphere. The NASA hydrogen sphere is the world's largest liquid hydrogen tank. The hydrogen will be used to fuel NASA's Artemis missions. **Full Story**

08/19/2025 - 'This is getting exciting' | HyTerra's latest well yields hydrogen concentrations of 83%
2025年8月19日　ハイテラ社、米カンザス州の最新坑井で水素濃度83%を確認
Australian natural hydrogen exploration company HyTerra has discovered H2 concentrations of 83% at its latest exploratory well in the US state of Kansas, the company said yesterday (Monday). The results came from mud gas samples from HyTerra's McCoy 1 well, which is also the company's last exploratory drilling project. Once full results come back from the well, the company plans to move onto the design and planning stage of a hydrogen "production test" programme — a precursor to full hydrogen production. At 1,696m, McCoy 1 is also the company's deepest well it has drilled so far, however the results are slightly less impressive than those from its last drilling activity, at the Sue Duroche-3 well, where it found a 96.1% concentration of H2. **Full Story**

08/19/2025 - GoSolar Energy: renewable ammonia-based fertiliser production in northern Arizona
2025年8月19日　ゴーソーラー・エナジー社、アリゾナ州北部に再エネアンモニアベース肥料生産拠点を計画
US-based GoSolar Energy has announced plans to develop a large-scale Industrial complex, focused on the production of CCS-based and renewable ammonia for fertiliser production. Located in northern Arizona, the complex will be connected to a new 42-inch natural gas pipeline

with a daily capacity of up to 2.4 billion cubic feet. It will feature onsite power generation including up to 8 GW of solar and 1 GW wind – supported by long-duration energy storage – for electrolytic hydrogen production, and combined cycle gas turbines (CCGT). The gas pipeline is set to come online between Q4 2026 and Q4 2027, subject to agreements with interested fertiliser operators which GoSolar is actively seeking. When complete, the complex will have a production capacity of up to 12 million tons of CCS-based ammonia and about 1.5 million tons of renewable ammonia per year. The complex will sit on a total of 15,000 acres and GoSolar has a "special agreement" with the local county which will fast-track permitting to within 4-6 months. **Full Story**

08/15/2025 - Charbone secures water and power for flagship Quebec green hydrogen project
2025年8月15日　シャルボン社、ケベック州旗艦グリーン水素プロジェクトで電力・水供給を確保
Canada's Charbone Hydrogen has secured an electrical connection and water supply infrastructure for its flagship green hydrogen project in Quebec. The connection, carried out by Hydro-Quebec, sets the stage for hydrogen production equipment to be installed at the Sorel-Tracy project. In parallel, the Sorel-Tracy Water Department has finished installing a 14-inch main water later into the site, which will have enough capacity to support all five planned project phases. **Full Story**

08/05/2025 - HydrogenXT Secures Definitive $900 Million Term Sheet to Build First 10 Zero-Carbon Hydrogen Production & Dispensing Plants
2025年8月5日　ハイドロジェンXT社、初の10ヶ所のゼロカーボン水素製造・供給プラント建設に向け、9億ドル調達
HydrogenXT, a leading innovator in zero-carbon fuel-grade blue hydrogen, today announced it has secured a definitive Term Sheet for $900 million in combined debt and equity financing with Kell Kapital Partners Limited (KKP) and its affiliated institutional backers. The funding will support the construction of HydrogenXT's first 10 production and dispensing facilities across California, Oregon, Washington, North Dakota, and key U.S. logistics corridors. This commitment marks a significant milestone in HydrogenXT's mission to deploy 100 zero carbon-intensity, fuel-grade, clean blue-hydrogen plants across North America and an additional 200+ dispensing stations without relying on Federal Subsidies and scale to over 1,000 global locations, revolutionizing the availability of cost-equivalent, zero-emissions hydrogen fuel for heavy-duty transport, industrial power, and AI Factory infrastructure. **Full Story**

-News Stories Continue

Projects / プロジェクト

August 1-31, 2025

08/04/2025 - World's largest blue hydrogen project at risk as ExxonMobil admits concerns over subsidies and future market demand
2025年8月4日　エクソンモービルが補助金と将来の市場需要への懸念を認め、世界最大のブルー水素プロジェクトが危機に直面
US oil major ExxonMobil has admitted "mixed progress" on its Baytown blue hydrogen project in Texas — which it describes as the world's largest clean H2 development — during an analyst call for its second-quarter results. "As we've said, this is a complicated project that requires simultaneous development of supply, demand and policy," said Darren Woods, CEO of ExxonMobil. The complex is designed to produce one billion cubic feet (about 2,400 tonnes) of low-carbon hydrogen per day, some of which would be used as feedstock for one million tonnes of annual ammonia production, with operations originally scheduled to begin in 2028. One major hurdle for the project is the US government's decision to end the 45V tax credit for clean hydrogen production early as part of the One Big Beautiful Bill Act signed into law last month. **Full Story**

08/01/2025 - Fortescue cancels $550 million hydrogen hub project in Buckeye
2025年8月1日　フォーテスキュー社、バックアイ市での5億5,000万ドル水素ハブ計画を中止
Fortescue Future Industries is abandoning its plans for a $550 million hydrogen hub project in Buckeye, citing uncertainty and waning federal commitment to green energy initiatives in the U.S. **Full Story**

Mobility/Transportation / モビリティ／輸送

August 1-31, 2025

08/28/2025 - First Public Hydrogen Opens Bid for Hydrogen Transportation Services
2025年8月28日　ファースト・パブリック・ハイドロジェン、水素輸送サービスの提案募集を開始
The First Public Hydrogen Authority (FPH2) is seeking Request for Proposals (RFP) for Hydrogen Transportation Services. The competitive solicitation invites qualified vendors to deliver liquid and gaseous hydrogen from producers to offtakers across California. The RFP is open now, with proposals due September 12, 2025, by 3:00 PM PDT. "FPH2 is ready to move hydrogen at scale and is looking for partners to make that possible," said FPH2 Chairman R. Rex Parris. "This RFP demonstrates our continued leadership in building systems that are reliable, practical, and forward-looking. It's not just about trucks or trailer, it's about accelerating a hydrogen deployment." The RFP invites qualified bidders to propose solutions that align with FPH2's mission of streamlining hydrogen procurement and infrastructure development. Proposals will be evaluated based on technical capabilities, cost-effectiveness, and ability to deliver lasting value for end users. **Full Story**

Mobility/Transportation / モビリティ／輸送

August 1-31, 2025

08/11/2025 - Bankrupt hydrogen truck firm Nikola's H2 assets bought by 'trucking-as-a-service' firm at auction

2025年8月11日　破産した水素トラック企業ニコラの資産、「トラッキング・アズ・ア・サービス」のハイロード・エナジーが競売で取得

Hydrogen and battery truck firm Nikola, which filed for bankruptcy in February this year, has seen its H2 assets bought by newcomer Hyroad Energy at auction. This includes 113 Class 8 fuel-cell trucks, spare parts, software platforms and intellectual property rights. Texas-based Hyroad operates a “trucking-as-a-service” business, where it leases out trucks and provides refuelling infrastructure on a “pay-per-mile” model, rather than manufacturing fuel-cell vehicles to be directly sold to customers. **Full Story**

Technology/Research / 技術/研究

August 1-31, 2025

08/26/2025 - Ohmium Unveils Modular Hydrogen System with a 29.7 M²/MW Footprint

2025年8月26日　オームイウム社、29.7㎡/MWの省スペース型モジュール水素システムを発表

Ohmium International, a pioneering manufacturer of cutting-edge PEM electrolyzers, is redefining the boundaries of green hydrogen projects with its innovative approach to footprint size and an inclusive project scope. The third generation of Ohmium's Lotus electrolyzer has achieved a compact total land usage area of 29.7m2/MW, including space for maintenance and access in its horizontal installation. As with all preceding models, the Lotus Mark 3 electrolyzer system is comprehensive and includes the balance of plant (BoP), power distribution and power electronics, water treatment, gas-liquid separation, hydrogen purification, and cooling systems. By integrating these components, the system efficiently converts AC power and city water into pressurized, high purity 99.99% hydrogen, streamlining the production process, minimizing the overall footprint, and reducing installation costs. **Full Story**

08/22/25 - Plug, Verne win $2m to develop cryo-compressed hydrogen trailers in New York

2025年8月22日　プラグ社とヴェルヌ社、ニューヨーク州で低温圧縮水素トレーラー開発に200万ドル獲得

Plug Power will co-develop cryo-compressed hydrogen distribution trailers in a New York state-backed project with Californian start-up Verne. The pair were awarded $2m from the state to develop trailers equipped with cryo-compressed storage technologies to improve distribution economics. The systems will be aimed at supporting hydrogen deliveries for small- to mid-sized warehouse and distribution centre customers in New York. Plug has long been both a fuel cell technology and hydrogen supplier for warehouse logistics applications, having deployed fuel cell forklifts with the likes of Amazon and Walmart. **Full Story**

Technology/Research / 技術/研究

August 1-31, 2025

08/11/2025 - SunHydrogen Achieves Live Demonstration of Commercial-Size Hydrogen Module

2025年8月11日　サンハイドロジェン社、商用サイズ水素モジュールのライブ実証に成功

SunHydrogen, Inc. (OTCQB: HYSR), developer of a breakthrough technology to produce renewable hydrogen using sunlight and water, today announced the successful live operation of its 1.92 m² (20.7 sq. ft.) hydrogen module. The 1.92m² hydrogen module, which uses only sunlight and water to produce hydrogen, represents the most advanced version of SunHydrogen's proprietary hydrogen production technology. Engineered to operate independent of the electrical grid, the system integrates solar collection and hydrogen production into a single unit, offering a modular and scalable solution for distributed renewable hydrogen. **Full Story**

Investments, Mergers, Acquisitions / 投資、合併、買

August 1-31, 2025

08/16/2025 - Green Hydrogen Production Group Closes on Major Investment

2025年8月16日　グリーン水素製造グループ大型投資を確保

A California-based hydrogen production group said it has completed a funding round in support of the company's first 100-kilotonne carbon dioxide removal (CDR) commercial facility. Equatic, which is considered a pioneering company in combined carbon dioxide removal and green hydrogen production, on August 11 announced the successful closure of its Series A round, with Catalytic Capital for Climate and Health (C3H) leading an $11.6-million investment. The funding round, with participation from a consortium of global investors, will accelerate the engineering scale-up and commercialization of Equatic's patented seawater electrolysis technology. **Full Story**

08/08/2025 - MAX Power Secures $4.45M Funding to Advance Natural Hydrogen Exploration, Led by Eric Sprott

2025年8月8日　マックス・パワー社、天然水素探査推進のため445万ドルの資金調達を確保（エリック・スプロット氏主導）

MAX Power Mining Corp. (CSE: MAXX; OTC: MAXXF; FRANKFURT: 89N) ("MAX Power" or the "Company") is pleased to announce that in conjunction with the previously announced closings of its non-brokered private placements of units for total gross proceeds of C$2,450,000 (refer to August 1, 2025 news release), with Eric Sprott as the lead order, the Company has now closed its LIFE Offering of units of the Company at a price of C$0.20 per unit for total gross proceeds of C$2,000,000 Pursuant to the closing of the LIFE Offering, involving strategic new investors, the Company issued 10 million units comprising one common share in the capital of the Company (a "Share") and one Share purchase warrant (a "Warrant"). Each Warrant entitles the holder to

acquire one additional share (a “Warrant Share“) at a price of C$0.25 per Warrant Share from the date that is 61 days after the closing date of the LIFE Offering until the date that is 24 months from the closing date of the LIFE Offering. **Full Story**

08/07/2025 - CF reports $698m profit, eyes growth from 45Q-backed blue ammonia expansion
2025年8月7日　CF社、6億9800万ドルの利益を報告、45Q支援のブルーアンモニアによる成長を期待
CF Industries reported $698m in first-half net earnings, ahead of anticipated revenue from US carbon capture subsidies, setting the stage for further tax credits from its $3.7bn blue hydrogen-based ammonia project. The fertiliser major posted an adjusted EBITDA of $1.41bn, up from $1.21bn in H1 2024, thanks to higher sales prices and increased production. In July, the firm started up its Donaldsonville carbon dioxide dehydration and compression facility in Louisiana to capture and permanently store up to two million tonnes of CO2 annually. The facility will produce up to 1.9 million tonnes of lower-carbon ammonia per year, with ExxonMobil handling carbon storage. **Full Story**

08/07/2025 - Horizon Fuel Cell acquires Hyzon’s hydrogen truck IP
2025年8月7日　ホライゾン・フューエルセル社、ハイゾンの水素トラックIPを取得
Horizon Fuel Cell Group has acquired the IP of its collapsed former hydrogen truck spin-out out Hyzon Motors as it looks to continue serving customers. The Singapore-based technology firm plans to use Hyzon’s IP to continue producing hydrogen trucks and integrating its own fuel cell systems, and serve Hyzon’s customers in the US, Europe, Australia, and New Zealand. “The acquisition of Hyzon vehicle IP allows us to serve customers and bring new revenue streams to Horizon,” explained George Gu, Chairman of Horizon Fuel Cell Group, who previously chaired Hyzon. **Full Story**

08/07/2025 - U.S. Naval Research Laboratory prototypes H2 small unit power system
2025年8月7日　米国海軍研究所、水素小型電源システムを試作
U.S. Naval Research Laboratory (NRL) has prototyped a hydrogen small unit power (H-SUP) system to reduce detectability and improve readiness of Marine Corps in expeditionary warfare operations. NRL’s H-SUP is a portable fuel cell electric generator with greater energy per weight than batteries and lower audible and thermal signatures than combustion generators. “This is more than a power system. It’s a capability that supports distributed operations and extends mission range. That’s strategic value,” said NRL Principal Investigator Kevin Cronin. “At NRL, we champion long-term modernization while working hand in glove with end-users across the services. Our investment today with the Marines in low-signature power intends to shape the future of how Marines fight – more independently, more efficiently, and with less logistical burden.” The use of hydrogen in key applications can lead to increased electrical efficiency and energy density, increased operational range, reduced thermal and audible signature, and reduced maintenance requirements; ultimately increasing lethality of the force and decreasing logistical sustainment requirements. **Full Story**