

BEI Energy News

This update is produced three times weekly by the Brilliant Energy Institute

April 28, 2023

Top news

Brilliant Energy Institute News

[BEI Observes the Day of Mourning – BEI LinkedIn](#)

BEI is observing this Day of Mourning with colleagues across the energy sector, today. The day serves as reminders of the very real hazards and risks that workers across multiple industries expose themselves to in their line of work, to provide us with the essential services and support we rely on.

[BEI to participate in sustainability events on university campus – BEI LinkedIn](#)

The Brilliant Energy Institute (BEI) works with campus and industry partners to preserve the earth's resources through sustainable and clean energy as we help contribute to our collective net zero goals. Clean energy is integral to our decarbonization journey. We also know the importance of other sustainability practices to help heal the planet. Over the next month, BEI will participate in a campus cleanup at Ontario Tech University and help the university's Office of Campus Infrastructure and Sustainability catalog biodiversity on campus. Working together, we can push back climate change and protect our ecosystems while strengthening our social fabric and powering our economy.

Energy Policy

[Port of Aberdeen sets sail to become U.K.'s first net zero port – Energy Live](#)

The Port of Aberdeen is planning to invest £55 million in decarbonization technologies over the next 10 years. They aim to reduce Scope 3 emissions from vessels visiting the port and Scope 1 and 2 emissions from their own operations. The port will measure its progress against a 2019 baseline, with 55,000 tonnes of CO2 equivalent emitted across Scopes 1, 2, and 3. Around 97 per cent of these emissions were identified under Scope 3 due to the arrival of 9,500 vessels. The port plans to introduce shore power at scale and facilitate low carbon alternative fuels for client vessels to reduce emissions.

Energy Systems

Battery

[Zero-emission electric truck plant opens in Kelowna, B.C. – Global News](#)

Hexagon Purus, a company specializing in alternative fuels, has opened an engineering and manufacturing facility for battery and hydrogen storage systems in Kelowna, B.C. The facility will support the production of more than 1,000 battery systems for heavy duty vehicle applications annually and will employ up to 150 people.

[Ford breaks ground on electric vehicle battery training centre in Kentucky – Clean Technica](#)

Ford and SK On, a South Korean battery manufacturer, entered a joint venture to establish the Ford BlueOval SK Battery Park in Kentucky with the goal of producing batteries for electric vehicles beginning in 2025. The two companies broke ground on the Battery Park in December 2022 and recently the Elizabethtown Community and Technical College (ECTC) BlueOval SK Training Center has also broken ground. From 2025 onwards, batteries for upcoming Ford and Lincoln automobiles will be manufactured at the Battery Park and the employees will receive training at the upcoming training centre.

Technologies

Nuclear

[OSGE seeks approval for SMRs at six Polish locations – World Nuclear News](#)

Orlen Synthos Green Energy (OSGE) has applied to Poland's Ministry of Climate for a decision-in-principle on the construction of GE Hitachi Nuclear Energy's BWRX-300 small modular reactor (SMR) based power plants, at six locations. The locations are Ostrołęka, Włocławek, Stawy Monowskie, Dąbrowa Górnicza, Nowa Huta, Tarnobrzeg Special Economic Zone, and Warsaw. These locations contain high energy-intensive production plants and are optimal for heating system purposes. The decision-in-principle will formally confirm that the investment in the plant is in line with the public interest and state policies. It will enable OSGE to apply for further administrative decisions, including siting decisions and construction permits.

BEI Editor's note: Synthos Green Energy entered into a technical collaboration agreement with Ontario Power Generation and Tennessee Valley Authority in March 2023 to invest in the development of the BWRX-300 standard design and detailed design for key components.

[Dutch government allocates funding for nuclear programme – World Nuclear News](#)

The Dutch government has budgeted funds totalling €320 million for the development of nuclear energy, in their [draft climate budget](#) for 2024. The budget allocates €72 million towards the operations at the Borssele plant, €117 million towards additional studies on the construction of two new reactors at the Borssele plant, €65 million towards building the country's knowledge infrastructure through resources for research and education and €65 million towards the development of SMRs.

Energy Storage

[‘Scotland’s largest’ standalone operational battery storage project comes online – Energy Live](#)

The largest standalone operational battery storage project of 50 MW in Scotland has come online. The project is in Dundee and has been established by a joint venture between SUSI Partners, a Swiss investment management firm, and Eelpower, a U.K. based battery storage company. The battery storage site is vital to decarbonizing energy in providing balancing services to National Grid. This allows the integration of greater levels of renewable power, given Scotland hosts 60 per cent of U.K.'s offshore wind farms. Scotland aims to achieve net zero by 2045, and its offshore wind capacity is expected to rise from 1 GW today to 11 GW by 2030.

Hydrogen

[HIF Global to build world's largest e-fuels facility in Texas with 1.8 GW of green hydrogen production – Hydrogen Insight](#)

HIF Global, an e-fuel company, intends to build and operate the world's largest e-fuels production facility in southern Texas in 2024. They have received authorization from the Texas Commission on Environmental Quality to begin construction in 2024. This project aims to produce approximately 200 million gallons of shipping fuel and e-gasoline. This is equivalent to decarbonizing over 400,000 cars on the road. This amount of e-fuel would require 300,000 tonnes of green hydrogen per year and producing that amount of green hydrogen requires about 1.8 GW of electrolyzers, for which HIF has already selected Siemens Energy to provide that amount of Silyzer300 PEM machines.

Fossil Fuels

[TotalEnergies sells Canadian oil sands operation to Suncor – The Globe and Mail](#)

TotalEnergies, a French multinational energy company, has agreed to sell its Canadian oil sands operations to Suncor Energy for CA\$5.5 billion. Suncor could make additional payments of up to CA\$600 million based on production and the price of oil. This includes the company's stakes in two main oil sands projects with a combined production share of 135,000 barrels of bitumen a day. In addition to a 100 per cent ownership of Fort Hills, the deal will give Suncor a 50/50 working interest in the Surmont oil sands project, with ConocoPhillips Canada Ltd.

Have a nice weekend!

The Brilliant Energy Institute news team

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