

## **Clean Energy --- Business Clean (Renewable) Energy Action & Goals 2023 — 2018**

**THERMO FISHER SCIENTIFIC** — **Established a commitment to achieve 80% renewable electricity globally by 2030.** The commitment is in line with the Sustainable Markets Initiative (SMI) Health Systems Task Force joint supplier standards. (Dec 2023)  
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**TESCANADA H2** — **Presented a new green hydrogen project in Quebec that will invest C\$4 billion (\$2.9 billion) in constructing an electrolyzer and renewable energy production assets (including a 1 GW solar and wind farm).** Upon commissioning in 2028, the project is expected to produce 70,000 metric tons of green hydrogen. (Nov 2023)  
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**Announced it has invested in 78 new solar and wind energy projects so far in 2023, including 13 new projects in the Asia-Pacific, 10 in Texas, and its first in South Korea.** The company also built its **first brownfield project**, which will repurpose a polluted coal mine site in Maryland into a solar farm. This is expected to be the largest solar farm in the state, with more than 300,000 solar panels, and avoiding more than 133,000 tons of CO2 per year. (Nov 2023)  
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**MERCK KGAA, DARMSTADT, GERMANY** — **Signed virtual power purchase agreements (VPPAs) for a total of 300 gigawatt hours (GWh) of renewable energy per year,** enough to cover 100% of its current electricity purchases in the European Union and Switzerland starting in 2025. This adds up to **almost one third of the company's total electricity purchased worldwide in 2022.** The two VPPAs are for 10-year terms, with 200GWh coming from solar photovoltaic plants, and 100GWh from wind farms. (Nov 2023)  
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**AMAZON** — **Added 39 new renewable energy projects in Europe so far in 2023, adding more than 1 GW of clean energy capacity to grids across Europe.** These include 15 rooftop solar installations on Amazon facilities and 24 utility-scale wind and solar projects. Once operational, this will bring total clean energy capacity from the company's 160 renewable projects in Europe to 5.8 GW. (Oct 2023)  
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[HYBRIT](#) (SSAB, LKAB, and Vattenfall) — **This one-month pilot effort to combine green hydrogen production and storage found that this can reduce production costs by 25% to 40%.** The effort used renewable energy (at low prices to reduce costs) to produce hydrogen and stored it in a 100m3 capacity steel-clad underground rock cavern until delivered to steel company SSAB for use. (October 2023)  
[PR » H2 VIEW »](#)

**COLGATE-PALMOLIVE** — **Signed a 20-year virtual power purchase agreement (VPPA) for a solar energy farm outside of Waco, Texas.** The 209-megawatt Markum Solar Farm is

expected to go online in 2025 and to produce the equivalent of 100% of the company's U.S. electricity needs. (Sept 2023)

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**MARS — Published a plan to cut emissions by 50% across its full value chain by 2030 (2015 baseline).** It will invest more than \$1 billion over the next three years on climate initiatives, including transitioning to 100% renewable energy; scaling up “climate smart” agriculture; redesigning supply chains to address deforestation; improving logistics; and optimizing recipes with lower footprint ingredients. (Sept 2023)

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**SK ECOPLANT — Announced that it had secured 670 square miles (1,735 km<sup>2</sup>) of state-owned land in Newfoundland, Canada to develop the \$15 billion Nujio’qonik green hydrogen project, set to be one of the world’s largest.** SK ecoplant, a Korean firm, will use the property to harness wind energy to develop the fuel. **In its fully operational phase 3, the project will have a generating capacity of 4 GW of wind power and could produce 180,000 tons of green hydrogen annually.** (Sept 2023)

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**MORGAN STANLEY INFRASTRUCTURE PARTNERS (MSIP) — Created a joint venture with logistics, marine, and energy solutions firm Crowley to advance offshore wind energy initiatives for the U.S.** The joint venture, Crowley Wind Services Holdings, will repurpose and operate existing U.S. port facilities and lease them to offshore wind developers under long-term contracts to support the manufacture, assembly, and storage of wind farm components. The terminals will also provide developers with maritime services, such as vessels to transport components from ports to offshore wind installations. (Sept 2023)

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**IRG ACQUISITION HOLDINGS (IRGAH) — This partnership between Invenergy Renewables, Blackstone, and Canadian pension fund Caisse de dépôt et placement du Québec acquired American Electric Power’s unregulated, contracted renewables portfolio for \$1.5 billion.** This includes 14 projects over 11 states comprising of 1,200 MW in wind and 165 MW in solar projects. **IRGAH secured a \$580 million commitment for a first-of-its-kind federal production tax credit transfer with CEF Member Bank of America** (selling those credits to help make this acquisition). (Aug 2023)

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**STEEL DYNAMICS — Signed a Renewable Product Purchase Agreement (RPPA) with a subsidiary of CEF member NextEra Energy for 308 MW of energy to be produced by a new wind farm project in Texas.** Once operational (expected end of 2024) the wind farm will produce electricity equivalent to 16% of the company’s steel mills’ electricity usage in 2022. **This RPPA is the largest of its kind for the steel industry in North America, according to Steel Dynamics.** (Aug 2023)

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**RES / INGETEAM — Renewable energy company RES announced it will acquire Ingeteam’s Renewable Service division.** Upon completion, RES will have £30 billion (\$38.2 billion) of assets under management and about 35 GW of operations and maintenance services

and asset management contracts, making it the largest renewable energy support services provider in the world, according to RES. (Aug 2023)

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**HYATT** — **Announced 14 Hyatt-owned hotels in the U.S. have transitioned to 100% renewable electricity through Green-e Energy certified Renewable Energy Certificates (RECs) to match their electricity use.** This will reduce an estimated 43,000 metric tons of greenhouse gas emissions in 2023. (Aug 2023)

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**OCTOPUS ENERGY** — **Announced plans to invest \$20 billion into offshore wind projects by 2030 (with a focus on Europe).** The company aims to produce 12 GW of electricity capacity, enough to power 10 million homes. (July 2023)

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**BOSCH** — **Announced it will invest \$2.6 billion into the development and manufacturing of hydrogen technologies from 2021 to 2026 and expects \$5.3 billion in sales by 2030.** The company has begun volume production of its hydrogen fuel-cell power module in Germany, and will pilot a Class 8 hydrogen fuel cell electric truck in the U.S. starting Q3 2023. (July 2023)

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**LG** — **Finalized plans to convert all business operations to 100% renewable energy by 2050.** LG will install solar panels at LG offices and manufacturing facilities, acquire renewable energy certificates (RECs), and sign renewable energy power purchase agreements. **It set intermediate goals of 60% renewable energy by 2030 and 90% by 2040.** LG also joined RE100, the global group of firms committed to using 100% renewable energy across their global operations. (June 2023)

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**RWE** — **Set new climate targets for Scope 1, 2, and 3 emissions for 2030 in line with a 1.5°C reduction path, supporting its earlier goal of Net Zero by 2040.** To do this, RWE plans to phase out coal by 2030 and invest €50 billion (\$53.6 billion) in expanding its green portfolio by more than 50 GW. (June 2023)

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**SSE** — **UK energy infrastructure company SSE announced it would invest up to £40 billion (\$49 billion) until 2031/32 on low-carbon energy infrastructure.** This includes deploying renewable energy, network infrastructure to transport the electricity, and flexible power sources to back up intermittent energy sources. (May 2023)

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**NEOM GREEN HYDROGEN COMPANY (NGHC)** — **Achieved financial close on the world's largest green hydrogen production facility at a total investment value of \$8.4 billion.** The project is being financed with \$6.1 billion from 23 banks and institutions. **The facility will integrate 4GW of solar and wind to produce 600 metric tons per day of green ammonia by the end of 2026.** NGHC also concluded agreements with Air Products as both contractor and for an exclusive 30-year off-take agreement for all green ammonia produced at the facility. (May 2023)

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**GOOGLE — Unveiled a first-of-its-kind plan with clean energy developer EDP Renewables N.A. to create a 500 MW community-based solar portfolio across 13 states that directly benefits over 25,000 households facing high energy burdens.** The program will be funded, in part, through Google's purchase of a **novel renewable energy credit (REC) called the ImpactREC™**, which requires direct community investment and benefits for low-to-moderate-income communities. It is the largest corporate backing of distributed solar development in the United States. (May 2023)

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**REI CO-OP — Announced a commitment to source locally generated renewable energy in each of its 181 stores and support clean energy projects that also benefit homeowners, renters, and small businesses.** REI has already sourced its stores, distribution centers, and offices with 100% renewable electricity for the past 10 years. The company will now expand this commitment to make renewable energy more local and accessible. Specifically, REI will increase the number of its stores with solar installations; work with utilities to offer renewable power programs to small and medium-sized businesses; and simplify transactions with project developers so that businesses of all sizes can directly procure renewable energy. (April 2023)

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**GOOGLE / SOL SYSTEMS — Announced a new renewable energy procurement and investment strategy in North and South Carolina that enables the development of new solar projects and supports local communities where the projects are built.** Along with investing in the development of 225 MW of new solar projects and 18 MW of battery storage, Google and Sol Systems will provide four community organizations capital to reduce energy burdens in under-resourced and minority communities by enabling critical home repairs and efficiency improvements. (March 2023)

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**ESSAR — Energy and mining investor Essar Group announced the formation of Essar Energy Transition (EET), a \$3.6 billion investment program to develop low carbon energy projects in North West England (\$2.4 billion) and in India (\$1.2 billion).** EET will include investments in blue and green hydrogen, ammonia, biofuels, and infrastructure projects. (March 2023)

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**ENBRIDGE — Announced plans to invest \$1 billion in infrastructure to convert food waste into natural gas. This includes an \$80 million investment in Divert, a company focused on developing technologies and infrastructure to eliminate food waste.** The investment will support the development of wasted food to renewable natural gas facilities across North America and will accelerate Divert's expansion of anaerobic digestion facilities. (March 2023)

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**DOW / X-ENERGY — Signed a joint development agreement to develop a small modular reactor (SMR) at one of Dow's Gulf Coast sites to provide both power and steam.** The agreement includes up to \$50 million in engineering work, with half of this coming from Dow

and half from the Department of Energy. The companies also aim to develop and license technology to other industrial customers. (March 2023)

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**SALESFORCE** — **Announced it will purchase 280,000 MWh of renewable energy from small, distributed energy projects over the next eight years to accelerate clean electricity access in emerging markets and help maintain the company's commitment to match 100% of the electricity it uses with renewables.** Salesforce will work with renewables aggregator Powertrust to support renewable energy projects in Brazil, India, Sub-Saharan Africa and Southeast Asia using Distributed Renewable Energy Certificates. (Feb 2023)

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**IKEA** — **Announced it will include ten additional markets in its program to support its suppliers to switch to renewable electricity.** These markets represent 13% of IKEA's climate footprint from production. Supported by IKEA, the program enables direct suppliers to purchase 100% renewable electricity such as through Power Purchase Agreements, or develop onsite renewable energy with financing. Through its initial efforts in China, Poland, and India, IKEA reduced its climate footprint 5% and doubled the share of renewable electricity in China from 32% in 2021, to 64% in 2022. (Feb 2023)

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**VERIZON** — **Announced it is on track to exceed its target to source or generate renewable energy equivalent to 50% of total annual electricity consumption by 2025 and set a new target to reach 100% by 2030.** Since 2019, Verizon has secured [\\$4 billion in financing](#) from four \$1 billion green bonds, with three of those fully allocated to renewable energy. The fourth bond (which was recently fully allocated) went entirely to virtual power purchase agreements, for an aggregate of 850 MW of renewable energy capacity. (Feb 2023)

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**ONTARIO POWER GENERATION (OPG)** — **Announced a contract to deploy a small modular reactor (SMR) at OPG's Darlington New Nuclear Project site in Canada, the first commercial contract for a grid-scale SMR in North America.** This agreement, made in partnership with GE Hitachi Nuclear Energy (GEH), SNC-Lavalin, and Aecon, includes design, licensing support, construction, testing, training, and commissioning. **GEH is a global nuclear alliance between CEF member GE and Hitachi.** (Feb 2023)

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**AMAZON** — **Announced that the company grew its renewable energy capacity by 8.3 GW in 2022,** bringing the company's total portfolio to more than 20 GW, through 401 renewable energy projects in 22 countries. **This set a new record for the most renewable energy purchased by a single company.** (Feb 2023)

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**MICROSOFT / QCELLS** — **Announced a partnership for Qcells to supply Microsoft with more than 2.5 GW of solar panels and engineering, procurement, and construction services to selected solar projects Microsoft has contracted for through power purchase agreements.** This will bring more renewable energy to the U.S. grid, while supporting the domestic supply chain, through Qcells's investments in a complete U.S. solar supply chain. This

alliance is the **first time a company procuring energy is working directly with a solar supplier** to adopt clean energy on a large scale. (Jan 2023)

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**QCELLS** — Clean energy company Qcells announced it will invest more than \$2.5 billion to build a complete solar supply chain in the U.S. This includes a new facility in Cartersville, Georgia, that will manufacture 3.3 GW of solar and a 2 GW expansion of its existing facility in Dalton, Georgia. **This will bring Qcells's total solar panel production capacity to 8.4 GW by 2024.** (Jan 2023)

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**MCDONALD'S** — McDonald's and all five members of its North American Logistic Council have signed agreements with Enel North America to purchase renewable energy and the associated renewable energy certificates (RECs) from Enel Green Power's Blue Jay solar project in Texas. This aggregated purchase will mean the electricity load of McDonald's USA's entire logistics supply chain for all its U.S. restaurants is expected to be 100% supported by renewable energy. Once Blue Jay is fully operational in 2023, **the combined electricity purchase is expected to be over 470,000 MWh annually.** (Dec 2022)

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**STELLANTIS / DTE Energy** — Stellantis announced a commitment to purchase 400 MW of energy from new solar projects in Michigan, through a partnership with DTE Energy. With this commitment, Stellantis will be able to attribute 100% of electricity used at 70 southeast Michigan sites to solar by 2026, which will reduce the company's carbon emissions in North America by 50% and across its manufacturing facilities by 30%. (Dec 2022)

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**EXXONMOBIL** — Announced its corporate plan for the next five years, increasing its lower-emissions investments through 2027 by nearly 15% (approximately \$17 billion). Nearly 40% of this will be directed toward building the company's lower-emissions business, with an emphasis on CCS, biofuels, and hydrogen. While the rest of the capital will support its emission-reduction plans. (Dec 2022)

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**AIR PRODUCTS / AES** — Industrial gases company Air Products and energy company AES announced plans to invest approximately \$4 billion to build, own and operate a green hydrogen production facility in Texas. This renewable power to hydrogen project includes approximately 1.4 GW of wind and solar power generation, along with electrolyzer capacity capable of producing over 200 metric tons per day of green hydrogen, making it the largest green hydrogen facility in the United States. It is targeted to begin commercial operations in 2027. (Dec 2022)

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**GE / SHELL** — Announced they will develop a way to convert turbines that compress natural gas into liquefied natural gas (LNG) to run on hydrogen. GE will develop a retrofit solution for the turbines, and Shell will evaluate the development of on-site production of hydrogen at LNG facilities. A successful conversion would reduce the largest source of CO2 emissions at an LNG facility. (Nov 2022)



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**ENEL** — **Announced intention to build one of the largest solar PV manufacturing facilities in the U.S., initially producing at least 3 GW and scaling up to 6 GW of bifacial PV modules and cells annually.** Construction is expected to begin in the first half of 2023, with the first panels being produced by the end of 2024. (Nov 2022)

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**CARLYLE GROUP** — **Launched Telis Energy, a new renewables platform to develop renewable energy projects, with a focus on solar, in the UK, France, Spain, and Germany.** Telis will develop and partner on high-quality renewable energy projects, with a target project pipeline of more than 10 GW in place by 2030. (Nov 2022)

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**DANONE** — **announced Re-Fuel Danone, a program to transform the energy footprint of the company's sites worldwide and make its operations more sustainable, energy and cost efficient, and resilient.** Specifically, the program will improve energy efficiency by 30% by 2025; significantly increase the use of renewables; reduce Scope 1 and 2 emissions by at least 42% by 2030; and achieve 100% renewable electricity by 2030. (Nov 2022)

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**The U.S., The Rockefeller Foundation, and the Bezos Earth Fund announced a partnership to create an Energy Transition Accelerator (ETA), a carbon credit system to increase private finance to accelerate the clean energy transition in developing countries.** Operating at the scale of national or subnational jurisdictions, the ETA will produce verified greenhouse gas emission reductions, which participating jurisdictions will have the option of issuing as marketable carbon credits. **CEF members Bank of America, Microsoft, and PepsiCo,** and Standard Chartered Bank have expressed interest in informing the ETA's development, with decisions on whether to formally participate pending the completion of its design. (Nov 2022)

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**SCHNEIDER ELECTRIC** — **Announced that the Energize program, launched a year ago, has formed the program's first Power Purchase Agreement buyers' cohort to purchase renewable electricity.** The cohort, made up of 9 companies, intends to purchase electricity together, resulting in a potential aggregate of 2 terawatt-hours of electricity demand in Europe and North America. (Nov 2022)

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**ICELANDAIR** — **Announced it will operate only carbon-free aircraft for its domestic routes by 2030, using only electric or hydrogen-powered planes.** It has signed two letters of intent with Heart Aerospace and Universal Hydrogen, two emission-free aircraft startup companies, to reach this goal. (Nov 2022)

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**IBERDROLA** — **Announced a €47 billion (\$47.2 billion) investment plan in the energy transition from 2023 to 2025,** with 57% of this investment in electricity networks and 36% in renewables (half of that in offshore wind) to deliver 52 GW of renewable installed capacity by

2025. (Nov 2022)

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**GOOGLE** — Announced it would buy nearly 1 Gigawatt of electricity from four of SB Energy Global's Texas facilities as part of its effort to operate data centers on carbon-free energy by 2030. The facilities, currently under development, are expected to be operational by mid-2024. (Nov 2022)

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**VIRGIN MEDIA O2** — Telecommunications company, Virgin Media O2, announced successfully cutting greenhouse gas emissions by 56% by using recycled stone and sand when reinstating the ground in its installation of broadband to 3,000 homes in Scotland. (Oct 2022)

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**ØRSTED / WWF** — Announced a 5-year global partnership to advance offshore wind projects that strive to achieve a net-positive biodiversity impact. Specifically, the partnership will test tangible initiatives that improve ocean biodiversity; develop science-based recommendations for governments on how to incorporate biodiversity requirements in offshore wind development; and bring together those working toward a decarbonized energy system that aligns with marine protection and restoration. The partnership will start with a joint restoration project in the North Sea. (Oct 2022)

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**GM** — Finalized energy sourcing agreements to secure 100% of the energy needed to power all its U.S. facilities by 2025 with renewables. This is five years ahead of GM's 2030 target announced in 2021 and 25 years ahead of its initial target of 2050 set in 2016. (Oct 2022)

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**C40 / GOOGLE** — Launched a new 24/7 Carbon-Free Energy for Cities program to support cities around the world to accelerate the decarbonization of regional electricity grids, running entirely on carbon-free energy 24 hours a day, 7 days a week (24/7 CFE). The program will develop and implement high-impact strategies, practices and tools to enable cities to achieve 24/7 CFE, and support cities seeking to lead in the energy transition. Initial pilot cities include London, Copenhagen, and Paris. (Oct 2022)

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**Six new companies joined the H2Zero initiative with pledges to support the deployment of decarbonized hydrogen in their operations by 2030.** This raises the total number of companies to 34. (Oct 2022)

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**EE NORTH AMERICA**— This subsidiary of Danish renewable energy company European Energy announced its ambition to develop 10 gigawatts of renewable energy in the U.S. by 2026. (Oct 2022)

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**RWE** — German energy company RWE announced that it will phase out lignite (or brown



**coal)-based electricity generation in 2030, bringing the date forward eight years.** This will leave an additional 280 million metric tons of coal in the ground and prevent roughly 280 million metric tons of CO2 emissions. It will also accelerate the closure of the Garzweiler lignite strip mine in western Germany and prevent the eviction of several villages near it. (Oct 2022)

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**UNDER ARMOUR** — Released a new sustainability framework with 23 goals and targets, including **increasing renewable energy in owned and operated facilities to 100% by 2030.** (Oct 2022)

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**LEVI STRAUSS & CO.** — Announced 16 new sustainability goals, including **achieving 100% renewable electricity in all company-operated facilities by 2025.** (Oct 2022)

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**AMAZON** — Has signed an agreement with renewable fuels technology **Infinium to provide “ultra-low carbon electrofuels,” made from CO2 and renewable power, beginning in 2023.** This fuel will replace diesel fuel for approximately 5 million miles of travel per year. Amazon previously invested in Infinium through Amazon’s Climate Pledge Fund. (Sept 2022)

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**AMAZON** — Announced it is expanding its renewable energy portfolio globally, with an **additional 2.7 gigawatts (GW) of clean energy capacity across 71 new renewable energy projects.** This includes Amazon’s first renewable energy project in South America: a 122 megawatt solar farm in Brazil. These new projects expand Amazon’s total renewable energy projects to 379 across 21 countries and represent 18.5 GW. (Sept 2022)

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**COMCAST** — Announced a plan to **double its network energy efficiency by 2030, cutting the electricity per consumed terabyte of data in half.** The plan includes investing in virtual, cloud-based technologies, which require less energy per unit of data. (Sept 2022)

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**PINTEREST** — Committed to **purchase 100% renewable electricity for its offices globally by 2023.** Starting with its San Francisco headquarters, the company will source its electricity through Energy Attribute Certificates, building on its earlier goal of reducing energy usage in its offices. (Sept 2022)

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**FIRST SOLAR** — Announced that it will **invest \$1 billion in building a new solar PV manufacturing facility in the Southeast U.S. and \$185 million upgrading and expanding facilities in Ohio.** These will increase the company’s production capacity by 4.4 Gigawatts (GW) to more than 10 GW by 2025. (Sept 2022)

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**AMAZON** — Signed an agreement with Plug Power, a hydrogen and fuel cell company, to **supply 10,950 tons of green hydrogen per year for Amazon’s transportation and building operations starting in 2025,** enough to fuel the equivalent of 30,000 forklifts. Amazon will

use this to replace gray hydrogen, diesel, and other fossil fuels and meet its net-zero pledge by 2040. (Aug 2022)

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CEF member **Microsoft and green hydrogen company Plug successfully tested the world's first 3-megawatt hydrogen-fueled generator as a backup power system for a datacenter.** The power output and responsiveness of the generator makes it a **viable replacement for diesel generators**, but with zero emissions—a development Microsoft's director of datacenter research, Sean James, is calling **“a moon landing moment” for the decarbonization of power-intensive datacenters.** Microsoft will next install the system at a research datacenter where engineers will learn how to work with and deploy the new technology. The **demand signal** from Microsoft is expected to help boost the production of green hydrogen and fuel cells, **pushing cost down and availability up** toward competitive scale. (Aug 2022)

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**NORTH AMERICA'S BUILDING TRADES UNIONS (NABTU) / ØRSTED —**

Announced the National Offshore Wind Agreement (NOWA), a **first-of-its-kind project labor agreement to construct Ørsted's US offshore wind farms with a US union workforce.**

Authorized by 15 International Union Presidents and their local affiliates, the NOWA **covers all Ørsted's contractors and subcontractors** involved in offshore windfarm construction along the US east coast. (July 2022)

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**MAZDA — Commits to make all its factories worldwide carbon neutral by 2035.** The company plans to achieve this through a combination of **energy conservation, process & technology upgrades, renewable energy generation & procurement, and use of biofuels** for on-site transportation. (June 2022)

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**DELL TECHNOLOGIES —** Announced plans to **partner with Intel, Computer Aid, and Microsoft to create Solar Community Hubs** (“the Hubs”) that will **bring infrastructure, technology, and services to meet the most pressing needs of remote communities around the world.** The Hubs will be built with Dell technology solutions and will also **provide communities with technical skills training, entrepreneurship support, education and career guidance, and revenue-generating services, as well as more fundamental things like electricity, clean water, and healthcare.** Critically, each hub will be **managed by the community** and will offer services based on each community's unique needs. “Research shows that the greatest impact starts with empowering local communities,” said Cassandra Garber, VP of Environmental and Social Governance, Dell Technologies. (May 2022)

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**HORMEL FOODS —** Announced it is **on track to match 100% of its domestic (U.S.) energy use with renewable sourcing (direct use and offsets) by 2030**—one of the twenty environmental and social responsibility goals included in its [20 by 30 Challenge](#). (May 2022)

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**APPLE (CEF MEMBER) — Reported its suppliers more than doubled clean-power usage in 2021, surpassing 10 gigawatts and saving 14 metric tons of carbon emissions.**

More than 200 of its manufacturing partners committed to 100% renewable energy use, bolstering the company's push for a carbon-neutral supply chain by 2030. (April 2022)

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**AMAZON** (CEF MEMBER) — **Unveiled 37 new renewable energy projects:** three wind farms, 26 solar farms, and eight rooftop solar installations. Amazon now has 310 renewable energy projects in 19 countries, and is on track to be powered 100% by renewable energy by 2025. (April 2022)

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**NORTHROP GRUMMAN** (CEF MEMBER) — Announced new environmental sustainability goals, including to (April 2022):

- Achieve **net zero greenhouse gas emissions in operations** by 2035.
- Source **50% of total electricity from renewable sources** by 2030.
- Develop a “**pioneering product stewardship program**” with key customers focused on material efficiency, product design and life cycle assessment.
- Expand **Technology for Conservation initiatives** in proximity to U.S. locations by 2030.

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**GREEN ROCK ENERGY PARTNERS** — Five “veterans of the traditional commodities sector” launched a new private equity firm focused on “sustainable infrastructure,” primarily targeting “waste-to-value energy projects.” [Green Rock](#) will focus on growth equity deals, initially targeting \$5-\$20 million investments in renewable transport fuels such as renewable natural gas, diesel and jet fuel. (April 2022)

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**BANK OF AMERICA** (CEF member) — **Announced 2030 targets to reduce emissions related to financing activities with the auto manufacturing, energy, and power generation sectors** x (April 2022):

- **Auto manufacturing:** Reduce Scope 1, 2, and end-use Scope 3 emissions intensity by 44% gCO<sub>2</sub>e/km.
- **Energy:** Reduce Scope 1 and 2 emissions intensity by 42% gCO<sub>2</sub>e/M and Scope 3 end-use Scope 3 emissions intensity by 29% gCO<sub>2</sub>/MJ.
- **Power generation:** Reduce Scope 1 emissions intensity by 70% kgCO<sub>2</sub>/MWh.

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**28 COMPANIES COMMIT TO UK HYDROGEN** — CEF member **PepsiCo** is among the 28 manufacturing companies operating within the UK's industrial decarbonization cluster, [HyNet](#), that have **committed to transitioning operations from natural gas to hydrogen**. Demonstrations of switching to hydrogen from natural gas within HyNet have already occurred by **Pilkington Glass** and CEF member **Unilever**. (April 2022)

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**ECOLAB** — Signed a virtual power purchase agreement with [Low Carbon](#) that will support the construction and operation of a new five-turbine wind farm in Finland. The facility will produce 100 gigawatt hours (GWh) of clean energy annually and **will increase**

Ecolab's global renewable energy sourcing to nearly 80%. (April 2022)

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**SUNTORY GROUP** — Global beverage company Suntory Group will buy 100% renewable energy for all 30 of its directly owned manufacturing and R&D facilities in Japan, effective immediately. This will amount to a reduction equivalent of about 150,000 metric tons of GHG emissions annually (based on 2020 usage) and moves the company closer to its goal of a 50% reduction in Scope 1 and Scope 2 emissions in its operations by 2030. (April 2022)

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**TARGET CORPORATION** — Announced its first net zero energy store in Vista, California, in which it is piloting renewable energy and emission reductions innovations for consideration in new stores and remodel programs. The store is expected to produce and feed an annual energy surplus of 10% back into the local power grid. Among the innovations being tested is carbon dioxide refrigeration, which it plans to scale chain-wide by 2040 to reduce its direct operations' emissions by 20%. (March 2022)

[Press Release](#)

**GE RENEWABLE ENERGY / INVENERGY** — CEF member GE's renewable energy division and [Invenergy](#)—the world's largest privately held developer, owner, and operator of sustainable energy solutions—have completed construction on the 998-megawatt [Traverse Wind Energy Center](#) in Oklahoma. It is the largest wind farm constructed in a single phase in North America. (March 2022)

[Press Release](#)

**FORTUM / MICROSOFT** — European energy company Fortum and Microsoft are collaborating to create the “world's largest” waste heat recycling concept of its kind in Finland. Microsoft will build a new region of data centers powered by 100% emission-free electricity in the Helsinki metropolitan area, and Fortum will capture the excess clean heat generated by the centers and transfer it to heat nearby homes, services, and businesses, reducing CO2 emissions by about 400,000 tons annually. (March 2022)

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**EQUINOR** — Plans to increase gross investments in renewables and low-carbon solutions to 30% of its total annual investments by 2025 and 50% of investments by 2030. It also aims to have 12-16 gigawatts of renewable energy capacity (up from 0.5 gigawatts in 2020) and expects renewable sources to account for about 10% of its energy output by 2030. (March 2022)

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[Sustainable Energy in America Factbook](#) (BloombergNEF, in partnership with the [Business Council for Sustainable Energy](#)) — Examines the performance of US clean energy sectors over the past decade and identifies policy trends. Key 2021 findings include (March 2022):

- The U.S. invested a record \$105 billion in private capital in the energy transition (an 11% increase over 2020 and a 70% increase over the past five years)
- The US federal government allocated a record \$80 billion in funding for clean energy technologies

- Renewable energy and natural gas met 59% of US electricity demand
- Over 45 gigawatts of new power-generation capacity were commissioned—the largest capacity in nearly two decades, including 37 gigawatts of renewable energy, a record 24.2 gigawatts of solar, and 13 gigawatts of wind
- Large companies signed contracts to procure a record 17 gigawatts of renewable energy
- US energy productivity improved 1.3% even as the economy grew 5.6%, “making the case for scaling up investment in energy efficiency technologies”
- Nearly 4.2 gigawatts of battery capacity were added to the US grid—more than every previous year combined
- US EV sales reached 657,000 units—double the units sold in 2020

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**SSE — Announced new 2030 commitments to reduce SSE’s emissions and increase its renewable energy output fivefold.** The commitments are linked to executive remuneration and include (Feb 2022):

- Reducing its Scope 1 carbon intensity by 80% (2017/18 baseline)
- Building a renewable energy portfolio that generates at least 50 terawatt-hours of renewable electricity annually
- Enabling at least 20 gigawatts of renewable generation and facilitating around 2 million EVs and 1 million heat pumps on [SSEN’s](#) electricity networks

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**DUKE ENERGY — Committed to generating less than 5% of its total energy from coal by 2030 and fully exiting coal by 2035,** which the company says is “the largest planned coal fleet retirement in the industry.” (Feb 2022)

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**T-MOBILE — Became the first US wireless provider to source 100% of its total electricity usage from renewable energy,** meeting its RE100 goal. (Feb 2022)

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**COSTCO — Committed to** (Jan 2022):

- Reducing its global Scope 1 and 2 CO2e emissions by 2% annually
- Increasing purchased renewable electricity in its global operations by 30% by 2025, by 60% by 2030, and by 100% by 2035 (2021 baseline of 15.8%)
- Reducing refrigerant emission Global Warming Potential (GWP) by 30% by 2030 (2020 baseline) by accelerating the phase-out of HFCs and increasing its investment in refrigeration retrofits

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**METINVEST — Ukraine's largest steelmaker committed to investing \$20 billion-30 billion to replace four coal-fired blast furnaces with new equipment that will produce fewer carbon emissions,** starting in 2028. It also committed to cutting GHG emissions by 15% by 2030 and by 40% in another 10 years. (Jan 2022)

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**GOLDMAN SACHS ASSET MANAGEMENT — Committed \$250 million in preferred equity financing to support the development of new 1 gigawatt/8.7 gigawatt**

**hour** [Advanced Compressed Air Energy Storage \(A-CAES\) projects](#) in Australia and California. The **projects will be run by LDES startup [Hydrostor Inc.](#), and the investment will also support the expansion of Hydrostor’s “project pipeline and capabilities in markets** with significant near-term demand for flexibly sited long-duration energy storage.” (Jan 2022)

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**KAWASAKI HEAVY INDUSTRIES — Plans to build a 100-megawatt hydrogen-fueled power plant to supply its domestic sites with electricity and to launch a \$358 million pilot project to ship its first cargo of liquefied hydrogen early next year.** In 2030, it will transport 225,000 tons of liquefied hydrogen from abroad to Japan, 45,000 of which will be used at the new plant. (Dec 2021)

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**FIRST SOLAR — The US International Development Finance Corporation (DFC) approved up to \$500 million of debt financing for First Solar’s vertically integrated, 3.3-gigawatt PV solar module manufacturing facility in India.** It is the DFC’s single-largest debt financing transaction. (Dec 2021)

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**TOYOTA — Committed to using 100% renewable energy at “Toyota Battery Manufacturing, North Carolina,”** a \$1.3 billion EV battery manufacturing plant it will build by 2025. (Dec 2021)

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**IBERDROLA / H2 GREEN STEEL — Are forming a roughly \$2.6 billion venture to build a 1 gigawatt plant in the Iberian Peninsula that produces green hydrogen.** The green hydrogen will be used to produce up to 2 million tons of iron annually, and they will explore using the iron to produce steel that has 95% fewer CO2 emissions. (Dec 2021)

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**BP — Plans to build a new “HyGreen Teeside” plant in England with 60 megawatts electric of green hydrogen capacity (hydrogen produced using renewable energy) by 2025 and 500 megawatts electric of green hydrogen capacity by 2030.** (Dec 2021)

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**AMAZON — Accelerated its commitment to powering 100% of its business operations with renewable energy from 2030 to 2025.** It also **announced 18 new utility-scale wind and solar energy projects with 5.6 gigawatts of total capacity** across the U.S. and other countries. The new project investment makes Amazon the world’s largest corporate buyer of renewable energy, with 274 total renewable energy projects that will avoid 13.7 million metric tons of carbon emissions per year. (Dec 2021)

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**SYSCO — Committed to by 2030 reducing its Scope 1 and 2 emissions 27.5% (science-based), electrifying 35% of its US tractor fleet, and sourcing 100% renewable energy for its global operations.** It also committed to having suppliers covering 67% of Sysco’s Scope 3 emissions set science-based targets by 2026. (Nov 2021)



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**ENEL GROUP** — Committed to **investing \$191 billion by 2030 to accelerate its shift to a decarbonized electricity supply and enable the electrification of customer energy demand.** (Nov 2021)

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**KIMBERLY-CLARK** — **Signed a PPA with Octopus Renewables Infrastructure Trust to construct a new wind farm in Scotland** that will supply several Kimberly-Clark brands with renewable energy. The wind farm will make almost 80% of Kimberly-Clark's UK electrical power consumption renewable. (Nov 2021)

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**JPMORGAN CHASE & CO. / EDF / CLEARTRACE** — **Will partner to match 100% of electricity consumed by JPMorgan Chase & Co.'s UK office operations with renewable energy in real time.** Blockchain technology from [ClearTrace](#), a carbon-accounting software company, will track energy production and consumption. (Nov 2021)

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**SSE** — The UK energy company committed to (Nov 2021):

- **Reducing Scope 1 and 2 absolute emissions by 50% by 2030** (SBTi-approved)
- **Investing \$16.9 billion to double SSE's net installed renewables capacity** to 8 gigawatts and increase its renewables-development pipeline to over 15 gigawatts by 2026. The investment will **enable SSE to deliver over 25% of the UK's offshore wind target by 2030**
- Increasing its renewables output fivefold and increasing renewable and other low-carbon generation capacity to over 16 gigawatts by 2031

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**RWE** — The German power company committed to **investing \$57 billion through 2030 to double its green energy capacity to 50 gigawatts**, as part of its new "Growing Green" strategy. Offshore and onshore wind, solar, batteries, flexible generation, and hydrogen are included in the investment. (Nov 2021)

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**GILEAD SCIENCES** — Committed to **electrifying its vehicle fleet by 2030 and using 100% renewable energy by 2025.** It also **joined the Climate Group's EV100 initiative.** (Nov 2021)

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**NOKIA** — Committed to **purchasing 100% of electricity from renewable sources by 2025** to power its factories, R&D labs, and offices.

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**UN RACE TO ZERO ENERGY COMPANIES** — Energy companies in the UN Race to Zero—including **Enel, Iberdrola, and Ørsted**—committed, in aggregate, to **reaching 750 gigawatts of installed renewable energy capacity by 2030**, which could provide 896 million

people with power. (Nov 2021)

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**20 COMPANIES' COAL POWER COMMITMENT** — 20 global companies—including **EDF Group, Iberdrola, and Ørsted**—signed the [Global Coal to Clean Power Transition Statement](#), committing to phasing out coal power generation and ending all new foreign and domestic investment in coal projects. (Nov 2021)

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**DOMINION ENERGY / SIEMENS GAMESA** — Will invest \$200 million to build the **first offshore wind turbine blade factory in the United States** in Portsmouth, Virginia. The factory will be completed around 2025. (Nov 2021)

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**APPLE** — Announced it now has **175 suppliers committed to using 100% clean energy, doubling the amount since last year.** Together, Apple and the suppliers will bring online over 9 gigawatts of clean power globally and avoid over 18 million metric tons of CO<sub>2</sub>e annually. It also **announced 10 new projects for its Power for Impact initiative** to bring clean energy solutions to under-resourced communities. (Nov 2021)

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**INEOS** — Will invest over **\$2.3 billion in electrolysis projects to accelerate the production of “green hydrogen”** (hydrogen produced using renewable energy to split water into hydrogen and oxygen) **across Europe,** which the company says is the largest investment of its kind. **Plants will be built in Germany, Norway, and Belgium,** with other investments planned for the **U.K. and France.** (Oct 2021)

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**IBERDROLA** — The Spanish electric utility company plans to **invest \$8.3 billion to develop its largest offshore wind complex off the coast of the U.K., with an installed capacity of over 3,000 MW** capable of supplying clean energy to over 2.7 million households.

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**HY STOR ENERGY** — Will partner with **Connor, Clark & Lunn Infrastructure** to develop and operate “green hydrogen” hubs in the United States. The first major project, **Mississippi Hydrogen Hub,** is a **zero-carbon hub** the companies say is the **first of its kind in the U.S. and 10 times larger** than any other US green hydrogen project. (Oct 2021)

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**GE RESEARCH / PROLEC GE** — Partnered with Mississippi power company **Cooperative Energy** to launch a **six-month field demonstration** of what they’re calling “**the world’s first large flexible transformer,**” created to **boost grid resilience** and allow **better integration of renewables.** The project is **backed by the US Department of Energy.** (Oct 2021)

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**EDP RENEWABLES (EDPR)** — The EDP subsidiary, which EDP says is the world’s fourth-largest renewable energy producer, will **invest nearly \$20 billion in solar, offshore wind, and**

**onshore wind projects in the U.K. by 2030.** (Oct 2021)

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**MITSUBISHI CORPORATION** — Committed to **halving its GHG emissions by 2030** (2020 baseline). It also committed to **investing over \$17 billion by 2030** in **renewable energy, hydrogen, natural gas, copper, and ammonia** initiatives. (Oct 2021)

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**PHILLIPS 66 / PLUG POWER** — **Phillips 66** signed a **memorandum of understanding with [Plug Power](#)** to scale green hydrogen in the **industrial sector**, accelerate **hydrogen fueling capabilities** for the **mobility sector**, and develop **hydrogen-related infrastructure**. (Oct 2021)

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**OCTOPUS ENERGY / RES** — Will **jointly invest \$4.1 billion and build new plants to produce “green hydrogen”** (produced using renewable energy to split water into hydrogen and oxygen) **across the U.K. by 2030.** (Oct 2021)

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**EQUINOR** — Plans to **invest \$11.7 billion in “blue hydrogen”** (produced from fossil fuels by combining steam methane forming with carbon capture and storage) **by 2035.** It also **plans to develop “green hydrogen”** (produced using renewable energy to split water into hydrogen and oxygen) on a smaller scale and at a slower pace. (Oct 2021)

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**REPSOL** — The Spanish energy and petrochemical company announced **numerous sustainability commitments** (Oct 2021):

- Investing \$22 billion from 2021-2025 in the production of renewable hydrogen, renewable electricity generation capacity, and other low-carbon initiatives
- Reaching 6 gigawatts of renewable electricity generation by 2025 and 20 gigawatts by 2030
- Reducing its “Carbon Intensity Indicator” by 15% by 2025, 28% by 2030, and 55% by 2040
- Reducing its methane-emissions intensity to 0.20% by 2025—an 85% reduction
- Reducing emissions from its operated assets by 55% (Scopes 1 and 2) and 30% of its net emissions (Scopes 1-3) by 2030

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**TotalEnergies / Air Liquide / VINCI** — Will be “anchor partners” for the creation of what they say is the world’s largest fund exclusively dedicated to clean-hydrogen infrastructure solutions. The fund, to be managed by the new [Hy241](#) venture, has secured **initial commitments of \$928 million** and **aims to reach \$1.7 billion**, with all 3 companies pledging to invest \$116 million. (Oct 2021)

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**ENBRIDGE / VANGUARD RENEWABLES** — Will **partner to develop 8 renewable natural gas (RNG) project sites in the United States**, which are expected to produce **nearly 2 billion cubic feet of RNG annually**. Vanguard will build and operate digesters for turning organic waste into **carbon-neutral RNG**, and Enbridge will invest over \$75 million for site building and sell the RNG to companies. CEF member **Unilever** is among the companies providing food waste for RNG processing. (Oct 2021)

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**GENERAL MOTORS** — Committed to **running its US sites on 100% renewable energy by 2025**. (Oct 2021)

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**SALESFORCE** — Announced it has become a “**Net Zero company across its full value chain and has achieved 100% renewable energy for its operations**.” The company says it reached Net Zero by identifying “the most impactful opportunities to lower its carbon footprint” and “[c]ompensating for any remaining emissions by purchasing renewable energy and carbon credits of high credibility, impact, and co-benefits.” To support other companies on their net-zero journeys, Salesforce also released its [Climate Action Plan](#) and unveiled **Sustainability Cloud 2.0**—a new suite of carbon-accounting tools to assist with **Scope 3 reporting** and climate action planning. (Sept 2021)

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**SHELL** — Committed to **investing \$565 million for renewable energy in Brazil through 2025**. The company will also **develop the natural gas-fired thermal plant** Marlim Azul and expects to begin generation next year. (Sept 2021)

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**GOODYEAR TIRE & RUBBER COMPANY** — Committed to using **100% renewable energy at its production facilities across Europe, the Middle East, and Africa by the end of 2022**, starting with facilities in Europe and Turkey. (Sept 2021)

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**POET** — The biofuel producer committed to **reducing the GHG emissions of its renewable, plant-based bioethanol by at least 70% compared with gasoline by 2030**. (Sept 2021)

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**CHEVRON** — Committed to **investing over \$10 billion by 2028 to reduce its carbon footprint—triple its previous investment**—including \$2 billion to reduce the carbon intensity of its operations. The company also set **new 2030 targets** (Sept 2021):

- Increase hydrogen production to 150,000 tons per year
- Increase renewable fuels production capacity to 100,000 barrels per day, including 40,000 MMBtu of natural gas production
- Increase carbon capture and offsets to 25 million tons per year by partnering with others to develop regional hubs

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**APICORP** — The Arab Petroleum Investments Corporation, an energy-focused multilateral development bank, committed to **allocating \$1 billion for green energy projects over 2 years**, particularly in the MENA region. It also committed to **measuring the ESG footprint of all its assets by 2023**. (Sept 2021)

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**SIEMENS GAMESA** — Launched **RecyclableBlade**, which it claims is **the world's first recyclable offshore wind turbine for commercial use**. (Sept 2021)

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**CATERPILLAR** — Announced it will offer **Cat generator sets that operate on 100% hydrogen, including green hydrogen**, by year-end. It will also launch **commercially available power solutions that are operable on up to 25% hydrogen** blended with natural gas. (Sept 2021)

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**THERMO KING** — The **Trane Technologies** subsidiary will **invest \$100 million under its evolve™ portfolio to create a fully electric product for every segment of the cold chain**, including refrigeration solutions for air, rail, truck, trailer, and marine transport. The solutions will be delivered in EMEA by 2023 and in the Americas by 2025. (Sept 2021)

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**SINOPEC CORP** — Asia's largest oil refiner announced 2025 commitments to **spend \$4.6 billion on hydrogen energy, produce over 1 million tons of green hydrogen annually** through 2025, and achieve 200,000 tons of annual hydrogen-refueling capacity. (Sept 2021)

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**EXXONMOBIL** — Announced its majority-owned affiliate **Imperial Oil Ltd.** will **produce renewable diesel** at a new refinery in Canada, **which is expected to produce approximately 20,000 barrels per day and save an estimated 3 million metric tons of emissions from the Canadian transportation sector per year**. The refinery will **use locally grown, plant-based feedstock and "blue hydrogen"** (hydrogen produced from fossil fuels by combining steam methane forming with carbon capture and storage) during the manufacturing process. (Aug 2021)

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**BP** — Signed a **15-year agreement with CleanBay Renewables wherein BP will buy renewable natural gas (RNG) processed from poultry litter**—a mix of feathers, manure, and bedding—and sell it to its US customers as fuel. RNG-fueled vehicles result in an estimated **95% lower GHG emissions** over their lifecycle than those fueled by gas or diesel. (Aug 2021)

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**PETROCHINA** — Asia’s largest oil and gas producer **aims to have “green energies” (e.g., solar, wind, geothermal), gas, and oil each make up a third of its portfolio by 2035, compared with 47% natural gas and 53% oil now.** It is also adding renewable projects this year whose total capacity is equivalent to that of 3.45 million tons of coal. (Aug 2021)

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**IKEA** — Announced it will partner with **Svea Solar** to **start selling renewable energy to IKEA residential customers in Sweden.** Households can buy electricity for a fixed monthly fee plus a variable rate, track their energy production in an app, and sell back surplus electricity. (Aug 2021)

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**SSE / TOTALENERGIES** — **Will launch tenders later this year to offer corporate customers renewable power purchase agreements (PPAs) with a 5-year term, rather than the usual 10-year PPA term, to help businesses hit their net-zero targets.** (Aug 2021)

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**AES** — **Announced a partnership with X (formerly “Google X”) to develop a virtual model of AES’ power-distribution grid with the aim of improving grid reliability for greater use of renewables.** The near-real-time grid will also help utilities and grid operators optimize grid operations and planning. (Aug 2021)

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**PRINCES GROUP** — Committed, as part of its 2030GreenGoals, to **achieving up to 50% internal energy generation and to reducing water waste by 25%, general waste by 30%, and food waste by 50%.** (Aug 2021)

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**THE HOME DEPOT** — Committed to **using 100% renewable electricity for its facilities by 2030.** (Aug 2021)

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**CLOUDFARE** — Committed by 2025 to **powering its network with 100% renewable energy and to removing all historical GHGs its network has emitted since its inception.** The company powers Internet requests for 17% of the Fortune 1,000. (Aug 2021)

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**LG ELECTRONICS INC.** — Committed to **reaching 100% renewable energy** by 2050. (July 2021)

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**JBS** — Committed to **reducing Scope 1 and Scope 2 emissions intensity by 30%** by 2030 and announced other new sustainability commitments, including (July 2021):

- **Reach 60% renewable energy and reduce water use intensity by 15%** by 2030
- **Invest \$1 billion in JBS facilities’ emission-reduction projects** over the next decade
- **Invest \$100 million by 2030 in R&D projects** to help producers’ efforts to scale and strengthen regenerative farming practices
- **Link senior executive compensation** considerations to performance against



environmental goals, with interim targets aligned to SBTi criteria

- **Eliminate illegal deforestation** in the Brazilian cattle supply chain in the Amazon and other Brazilian biomes by 2025
- **Advance traceability** to ensure supply chains are free of deforestation
- Develop a globally aligned **animal welfare scorecard** and 2030 targets

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**MICROSOFT** — Committed to a “**100/100/0**” vision through which the company **will have 100% of its electricity consumption matched by zero-carbon energy purchases 100% of the time by 2030.** (July 2021)

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**INDITEX** — The Spanish fashion group committed to **sourcing all energy in its direct operations from renewable sources** by 2022, **cutting water use** across its supply chain by 25% by 2025, **making all its cotton more sustainable** by 2023, and **making over 50% of its garments Join Life** (made with more sustainable processes and raw materials) by 2022. (July 2021)

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**MGM RESORTS INTERNATIONAL** — **Launched its 100-megawatt solar project** spanning 65 million square feet of buildings across 13 MGM properties on the Las Vegas Strip. The project now **produces up to 90% of MGM Resorts’ Las Vegas daytime power needs and is the global hospitality industry’s largest directly sourced renewable electricity project.** (July 2021)

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**STEEL DYNAMICS INC.** — Plans to **increase renewable electrical energy use in its electric arc furnace steel mills to 10% by 2025 and 30% by 2030.** (July 2021)

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**PSEG** — Launched a 3-pronged 2030 climate plan with a **commitment to 100% GHG- and carbon-free power generation and significant contributions to regional decarbonization.** (July 2021)

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**MGM RESORTS INTERNATIONAL** — Committed to **reducing Scope 1 and Scope 2 emissions 50% by 2030** (2019 baseline), as well as **100% renewable energy for its U.S. properties and 80% globally by 2030.** (July 2021)

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**SUNTORY HOLDINGS** — Announced **plans to reach 100% renewable electricity in its 63 directly owned manufacturing sites and R&D facilities** in Europe, Japan, and the Americas by 2022; start **introducing its companies to internal carbon pricing** in 2021; and **invest about \$900 million by 2030 to switch to low-carbon alternatives**, all of which will cut approximately 1 million tons of GHG emissions from its direct operations. (July 2021)

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**NISSAN** — Unveiled Nissan EV36Zero, a \$1.4 billion flagship EV manufacturing

**ecosystem that brings together EVs, renewable energy, and battery production for a 360-degree zero-emissions-monitoring solution.** Envision AESC will partner with Nissan to build the 9 gigawatt-capacity gigafactory. (July 2021)

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**EQUINOR — Tripled its target for low-carbon hydrogen production in the U.K. to 1.8 gigawatts,** with the aim of delivering over half the U.K.'s goal of 5 gigawatts by 2030. The increase includes an additional 1,200 megawatts of low-carbon hydrogen production capacity to fuel the Keadby Hydrogen power station Equinor is co-developing with SSE Thermal, which could become the world's first large-scale, 100% hydrogen-fueled power station. (July 2021)

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**BALL CORPORATION — Unveiled numerous sustainability and social impact goals, and shared its “Toward a Perfect Circle” vision:** for beverage brands, retailers, and aluminum beverage packaging manufacturers to jointly increase the aluminum packaging recycling rate to 90% (69% baseline today) and the average global recycled content rate to 85%. **Sustainability and social impact goals include** (July 2021):

- Achieving 100% renewable electricity by 2030; purchasing all aluminum from certified sustainable sources; and expanding its social programs and diversity and inclusion programs with 2025 goals for every business and region
- Developing a low-carbon roadmap for the aluminum beverage packaging sector

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**SCHNEIDER ELECTRIC — Announced it has advised corporate clients on more than 10,000 megawatts of renewable energy power purchase agreements worldwide since 2014,** equivalent to over 300 million metric tons of carbon emissions. It is the largest publicly announced advised capacity from any third-party buyer's advisor. (June 2021)

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**GM — Will collaborate with a Shell-owned power company to offer Texas customers renewable electricity and offer free overnight charging to residents with GM EVs.** (June 2021)

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**BP — CEO Bernard Looney said the company will keep producing hydrocarbons for decades** and, because of rising oil prices, be able to **sell assets and use the cash to build its low-carbon and renewables business.** (June 2021)

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**AMAZON — Reached 10 gigawatts of renewable energy capacity and became the largest corporate buyer of renewable energy in the world,** as part of its goal to have 100% of company activities powered by renewable energy by 2025—5 years ahead of the original target. (June 2021)

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**RELIANCE INDUSTRIES — The operator of the world's biggest refining complex will invest \$10.1 billion in clean energy over 3 years, with the aim of reaching net-zero emissions by 2035.** It will also invest \$8.1 billion to build 4 gigafactories that produce solar

cells and modules, energy storage batteries, green hydrogen, and fuel cells; invest \$2 billion in value chain partnerships for its new renewable energy business; and build a minimum of 100 gigawatts solar capacity by 2030. (June 2021)

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**TARGET — Released its updated sustainability strategy, called “Target Forward,” outlining numerous new commitments through 2040** (June 2021):

- Halve Scope 1 and Scope 2 emissions by 2030 (2017 baseline)
- Reach 60% of operational electricity consumption from renewables by 2025 and 100% by 2030
- Reduce Scope 3 emissions by 30% between 2017 and 2030, including purchased goods and services
- Send zero waste to landfills and ensuring all products of at least 2 owned brands meet key circularity principles by 2025
- Reduce total virgin plastic in own-brand packaging by 20% by 2025

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**NTPC LTD. — India’s largest power generator upped its target for renewable energy capacity from 32 gigawatts to 60 gigawatts by 2032.** (June 2021)

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**JOHNSON & JOHNSON — Committed to sourcing 100% of electricity from renewables by 2025 and lowering Scope 3 emissions 20%** (2016 baseline) to deliver almost 2.5 times the footprint reduction than its operations. (June 2021)

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**UPS — Committed to being carbon-neutral by 2050 (across Scopes 1-3), with 2 sets of interim targets** (June 2021):

- By 2035: 50% reduction in CO2 per package delivered for global small-package operations, 30% sustainable aviation fuel, and 100% renewable electricity in facilities
- By 2025: 25% renewable electricity in facilities, 40% alternative fuel for ground operations

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**IKEA — Committed to achieving 100% renewable electricity for its direct suppliers, as part of a larger goal to use 100% renewable energy in its entire value chain.** The program will be introduced in Poland, China, and India this year, saving 670,000 tons of carbon emissions annually (3% of the value chain footprint), followed by a global rollout. (June 2021)

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**EQUINOR — The Norwegian oil-and-gas company announced plans to have renewables and other "low carbon solutions" comprise over 50% of its capital investments by 2030,** compared to 4% last year. (June 2021)

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**FIRST SOLAR — Announced plans to invest \$680 million to expand U.S. domestic PV solar manufacturing capacity by 3.3 gigawatts annually** and produce an enhanced thin-film PV module for the U.S. utility-scale solar market. (June 2021)

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**MCCAIN** — The world's largest producer of potatoes **announced new sustainability commitments**, including **implementing regenerative agricultural practices across 100% of its potato acres (approx. 370,000) by 2030**. Other targets include (June 2021):

- By 2025: sending zero waste to landfills; removing palm oil from all branded products; making all packaging reusable, recyclable, or compostable; and giving 200 million meals to global food banks.
- By 2030: reducing farming, freight, and storage carbon emissions by 25%; reducing operational emissions by 50%; and moving to 100% renewable energy for operations.

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**BP** — **Invested \$220 million in a 9 gigawatt (GW) solar project**, expanding its renewable energy pipeline to 23GW. (June 2021)

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**ANHEUSER-BUSCH** — **Achieved 100% renewable energy for its beverage production activities in the U.S.** 4 years ahead of its 2025 goal. (June 2021)

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**ØRSTED** — **Committed to delivering a “net-positive biodiversity impact” from all of its new commissioned renewable energy projects by 2030 at the latest**. It will identify and implement initiatives to ensure an overall net-positive contribution to natural ecosystems, habitats, and species are created in and around new projects in offshore wind, onshore wind, solar PV and energy storage, and renewable hydrogen. (June 2021)

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**ØRSTED** — **Announced plans to grow its renewable energy capacity from 12 gigawatts (GW) today to 50 GW by 2030, with a goal of becoming the leading green energy provider in the world**. It plans to invest approximately \$57 billion in green energy sources through 2027. Separately, it **pledged to reuse, recycle, or recover all decommissioned wind turbine blades in its global portfolio of onshore and offshore wind farms**; the company will temporarily store blades, rather than send them to landfill, until it discovers a circular solution. (June 2021)

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**SSE** — **The UK energy company announced plans to spend \$2.83 billion on low-carbon power projects in 2021 and invest up to nearly \$4 billion by 2026 to improve renewable power distribution through the electricity transmission system**. Both are part of its larger strategy to invest \$10.6 billion through 2025 in its quest to achieve net-zero by 2050 (announced in Nov. 2020). (May 2021)

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**MITSUBISHI/IBERDROLA** — **Announced plans to jointly develop renewable energy solutions to accelerate decarbonization of the industrial sector**. The focus will be on green hydrogen projects, battery storage systems, and heat electrification. (May 2021)

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**DUKE ENERGY — Announced plans to study the potential benefits of converting retiring coal units into long-duration clean energy storage systems in partnership with Malta, an energy storage solutions company.** Deliverables of the study include an engineering conceptual study, a technology maturation plan, and a socioeconomic report on potential benefits. (May 2021)

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**BASF — Announced a 2 GW offshore wind farm project to enable CO2-free hydrogen production from 2030.** BASF is partnering with utility company RWE on the project, which will supply its chemical facility in Ludwigshafen, Germany. (May 2021)

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**KEYSIGHT TECHNOLOGIES — Announced new environmental and social goals, including: using 55% renewable energy by 2030 and 100% by 2040 (2019 baseline); reducing energy use 10% by 2030 and 20% by 2040 (2019 baseline); ensuring 35% of global new hires are women and 45% of new U.S. hires are underrepresented minorities in 2021; and committing \$250 million to engage 75,000 students through STEM education.** (May 2021)

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**JPMORGAN CHASE — Announced new climate targets for its operations** (May 2021):

- Reduce GHG emissions from its buildings, branches, and data centers by 40% by 2030 (2017 baseline)
- Generate 70% of its renewable energy with on-site systems by 2025
- Transition its entire owned fleet of vehicles to electric by 2025
- Reduce global water consumption by 20% by 2030 (2017 baseline)
- Reduce office paper use by 90% by 2025 (2017 baseline) and purchase 100% of paper from certified sources by the end of 2021
- Divert 100% of e-waste from landfill

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**WALMART — Announced it has operationalized over 500 MW of new renewable energy generation capacity across 3 separate projects in collaboration with ENGIE North America.** The renewable energy will power hundreds of stores, clubs, and distribution centers in Texas, South Dakota, and Oklahoma. (May 2021)

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**MERCK — Committed to achieving carbon neutrality across its Scope 1 and 2 by 2025 and reducing Scope 3 emissions 30% by 2030.** It plans to increase energy efficiencies, transition away from fossil fuel use, engage and support suppliers' decarbonization strategies, and offset residual emissions with high-quality carbon credits including carbon removals. **It also accelerated its goal of achieving 100% renewable energy from 2040 to 2025.** (May 2021)

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**GM — Announced new enterprise goals, including achieving carbon neutrality in global products and operations by 2040.** Additional goals (May 2021):

- Reducing absolute Scope 1 and 2 GHG emissions 72% by 2035 (2018 baseline)

- Reducing Scope 3 GHG emissions from the use of sold products of light-duty vehicles 51% per vehicle kilometer by 2035 (2018 baseline)
- Sourcing 100% renewable electricity globally by 2035 and 100% in the U.S. by 2030
- Reducing operational energy intensity by 35% by 2035 (2010 baseline)
- Reducing operational water intensity by 35% by 2035 (2010 baseline)
- Achieving >90% waste diversion from landfills and incineration globally by 2025
- Making packaging 100% returnable or made from majority sustainable content and zero waste by 2030
- Enrolling 100% of its "targeted Tier 1 suppliers" in GM's Supplier Sustainability Program

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**DUKE ENERGY — Announced plans to triple its renewable power output—including wind, solar and hydroelectric—to 23% by 2030 (7% today). (May 2021)**

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**GOOGLE — Announced 5 of its global data center sites are operating near or at 90% carbon-free energy. (April 2021)**

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**AMAZON — Announced 9 new utility-scale wind and solar energy projects, becoming the largest corporate buyer of renewable energy in Europe (2.5 GW of capacity) and globally (8.5 GW). With 206 renewable energy projects worldwide, it's on a path to power 100% of its activities with renewable energy by 2025—5 years ahead of its original 2030 target. (April 2021)**

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**FACEBOOK — Announced its operations reached net-zero emissions and have operated on 100% renewable energy since 2020, accomplishing its 2018 goal. It has reduced GHG emissions 94% over the last 3 years, surpassing its initial 75% reduction target. (April 2021)**

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**EQUINOR / SSE THERMAL — The two energy companies unveiled plans to develop two low-carbon power stations in the U.K.: (1) the first will have carbon capture and storage technology capable of delivering 15% of the U.K.'s target of capturing 10 MT of carbon annually by 2030; (2) the second will be the world's first 100% hydrogen-fueled power station with a peak demand of 1,800 MW, accounting for a third of the U.K.'s 5 GW hydrogen production goal. (April 2021)**

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**FRITO-LAY (PEPSICO) — Announced its manufacturing, warehouse, and distribution facility in Modesto, California reduced absolute GHG emissions by 53%, lowered fleet diesel usage by 78%, and converted to 100% renewable electricity. (April 2021)**

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**APPLE — Announced plans to construct one of the largest battery projects in the country, "California Flats," capable of storing 240MWh of energy—enough to power over 7,000 homes for one day. The project will support the company's 130MW solar farm providing all of its renewable energy in California. (April 2021)**



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**GUNVOR GROUP** — Gunvor Group, one of the largest independent oil traders, will invest at least \$500 million in carbon capture and storage, renewable power, and alternative fuels—including ammonia and hydrogen—over the next 3 years. (April 2021)

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**TESCO** — British supermarket chain Tesco released a climate change “manifesto” building on its existing 2035 net-zero commitment and outlining new goals to (March 2021):

- Procure 100% renewable electricity for all operations by 2030
- Partner with renewable energy investors to launch new renewable power generation projects and create new offsite UK solar and wind farms
- Electrify its home delivery fleet by 2028
- Expand the UK’s electric charging network by 14%, adding 2,400 charging points for customers across 600 stores (400 stores already fitted with chargers)
- Work with suppliers to trial and scale technologies targeting the biggest causes of agriculture emissions

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**COAL INDIA LTD** — Coal India, the world’s largest coal miner, announced plans to invest over \$826 million in solar power projects by March 2024. It also plans to invest an additional \$1.73 billion through its state-run joint venture NLC India Ltd. (March 2021)

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**TRANE TECHNOLOGIES** — Announced 15 manufacturing locations have transitioned to 100% renewable energy. (March 2021)

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**SCHNEIDER ELECTRIC/MINESTO** — Schneider Electric entered a Memorandum of Understanding with marine energy developer Minesto to co-develop and build ocean energy farms to support the global transition towards net-zero societies. Projects ranging from smaller microgrid installations to multi-megawatt farms will be jointly identified, assessed, and developed. (March 2021)

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**GOOGLE** — Released new data indicating its hourly Carbon Free Energy (CFE) Percentage for the majority of its global data centers to help companies make informed decisions on where to locate services across Google’s cloud infrastructure. (March 2021)

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**BP** — Unveiled plans to build the UK’s largest production facility for “blue hydrogen” (integrated with carbon capture and storage), targeting 1GW of hydrogen production by 2030—20% of the U.K.’s hydrogen target. The project would capture and store up to two million tons of CO2 per year, equivalent to capturing the emissions from the heating of one million U.K. households. (March 2021)

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**SWISS RE — Committed to achieve net-zero GHG emissions for its operations by 2030 and transition its investment portfolio to net-zero by 2050.** It set interim targets, including: reducing carbon intensity for its corporate bond and listed equity portfolio 35% by 2025; phasing out coal exposure in OECD countries by 2030 and the rest of the world by 2040; introducing an internal carbon levy of \$100 that will gradually increase to \$200 by 2030; increasing investments in renewable and social infrastructure by \$750 million; and expanding sustainable bond exposure to \$4 billion (\$2.6B in 2020) by the end of 2024. (March 2021)  
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**BUDWEISER (ANHEUSER-BUSH) — Pledged to purchase enough renewable energy credits (RECs) to cover the estimated electricity used to brew every beer in the U.S. in a single day,** instead of turning its beer green for St. Patrick’s Day. It called on peer beer brands to join an industry-unifying commitment, dubbed the “Green Electricity Beer Bar,” to brew all beers in the U.S. with 100% renewable electricity by 2030. (March 2021)  
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**CHEVRON — Announced new emissions intensity cuts and plans to invest over \$3 billion through 2028 to advance its energy transition strategy.** The company will invest \$750 million for investments in renewables and offsets and an additional \$300 million (totaling \$500 million) for its low-carbon fund. New 2028 emission reduction goals (benchmarked against 2016 levels) include: reducing CO2 emissions from oil production 40% by 2028; reducing CO2 intensity from gas production by 26%; reducing methane emissions by 53%. The company also plans to end routine methane flaring by 2030. (March 2021)  
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**Visa announced a 5-year energy agreement with MP2 Energy, a subsidiary of Shell Energy N.A., to power its largest data center with 100% renewable energy.** The data center, located in Virginia, accounts for over a third of its global electricity use. (March 2021)  
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**Kellogg Company announced it would achieve over 50% renewable energy for its global manufacturing operations by the end of 2022.** It signed a long-term 360GWh annual wind electricity power purchase agreement with Enel Green Power, equal to 50% of its U.S. electricity demand (equivalent to powering 43,000 homes each year). (March 2021)  
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**Abercrombie & Fitch Co. committed to sourcing 100% electricity from renewable sources for its home office and distribution centers beginning in 2023.** (March 2021)  
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**Virgin Media committed to achieving net-zero carbon operations and zero waste in its new five-year “Meaningful Connections Plan.”** The plan also includes (March 2021):

- **Reducing Scope 1 and 2 emissions by 25%**
- **Sourcing 100% renewable electricity and investing in carbon offsetting schemes for the remaining emissions**
- **Using 100% recyclable customer packaging with no single-use plastic**
- **Reusing or recycling 100% of all returned customer equipment and mobile handsets**
- **Connecting 1.5 million people to their communities and each other to combat**

**loneliness by 2025**

- **Transitioning its entire fleet to electric vehicles by 2030.**

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**Ingersoll Rand (IR)** announced new **2030 and 2050 sustainability goals**, including (March 2021):

- **Realizing net-zero GHG emissions by 2050**
- **Achieving 100% renewable energy by 2050**
- **Reducing GHG emissions from operations by 60% and reducing customer GHG impacts from IR products more than 15% by 2030**
- **Reducing water use by 17% in operations by 2030**
- **Eliminating, reducing, or recycling more than 1 billion gallons of water annually in its customers' processes and applications through the use of its products by 2030**
- **Achieving zero waste to landfill at more than 50% of its current sites by 2030**

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British telecommunications company **BT Group** signed a **three-year deal** with **Total** to **procure an estimated 1,124 GWh of renewable energy annually**, accounting for roughly half of BT's total annual U.K. power consumption. (March 2021)

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**IBM** pledged to achieve **net-zero GHG emissions by 2030** and set **interim targets** that include **reducing GHG emissions by 65% (2010 baseline) by 2025**, procuring **75% of electricity globally from renewable sources by 2025** and **90% by 2030**. IBM will use "feasible technologies" like carbon capture to remove residual emissions. (February 2021)

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Startup **geothermal energy** company **Evor Technologies** completed a \$40 million funding round—involving **Chevron** and **BP**—to advance the commercialization of its technology, which the **company claims to be the world's first truly scalable form of clean dispatchable power**. Evor aims to power the equivalent of 10 million homes by 2030. (February 2021)

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**Enviva**, the world's largest industrial wood pellet producer, committed to **achieving net-zero emissions across operations** and source **100% renewable energy by 2030**. (February 2021)

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**BASF** signed a **power purchase agreement** with **EDF Energy North America** to source a combined **90 megawatts of solar and wind power** for two Texas facilities starting as early as June 2021. (February 2021)

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**Amazon** signed a **purchase power agreement** with **Shell** and **Eneco** to source **380 megawatts of renewable energy beginning in 2024** for its **European operations**. It's Amazon's **largest single-site renewable energy investment** to date, bringing the company closer to achieving **100% renewable energy by 2025—five years ahead of its goal**. (February 2021)

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**Bloomberg** committed to achieving **net-zero carbon emissions by 2025**. The announcement complements the company's **existing RE100 target** to reach **100% renewable energy by 2025**. (February 2021)

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French oil major **Total** secured a **20% minority interest in the world's largest solar developer**, Adani Green Energy. Over the past 12 months, the company has acquired **a total of 16.8 gigawatts of renewable energy projects** and is aiming for **35 GW of operational renewable energy assets by 2025**. (January 2021)

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Retail electricity and power generation company **Vistra** announced that the **world's largest utility-scale battery energy storage system is now online**. The **300MW system** is located in Monterey County, California. (January 2021)

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**BASF** signed a power purchase agreement to **source 55 MW of solar power from EDF Renewables' Space City Solar Project in Texas**. The project is expected to be online by Summer 2022. (Jan 2021)

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**Southern California Edison** signed four contracts to **add 590 MW of new battery energy storage capacity** to its portfolio. The utility now has **more than 2 gigawatts** of total installed and procured battery storage capacity. (December 2020)

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Utility company **Enel** announced plans to **invest €70 billion to triple its installed renewable energy capacity to 120 GW by 2030**. (November 2020)

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**Novartis** signed **5 new virtual power purchase agreements (VPPAs)** to add **275 MW of renewable energy** to the grid in Europe. As a result, Novartis is now the first pharmaceutical company set to achieve 100% renewable electricity in its European operations through VPPAs. (November 2020)

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**Colgate-Palmolive** announced its [2025 Sustainability & Social Impact Strategy](#), which includes plans **source 100% renewable electricity** for its global operations by 2030.

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**AT&T** will **purchase 500 MW of solar electricity** from Invenergy's new Samson Solar Energy Center in Texas, marking the **largest U.S. corporate solar energy deal to date**. The company's clean power portfolio has expanded to more than 1.5 GW of capacity since 2018. (November 2020)

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Spanish electric utility company **Iberdrola** pledged to invest **€75 billion to double its**

**renewable energy capacity over the next five years.** As a result, the company estimates that its renewable energy capacity will **reach 60 GW in 2025**, up from 32 GW last year. (November 2020)

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**BT Group** announced that it is now **powering its network, offices, and shops worldwide with 100% renewable electricity.** (November 2020)

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**“[Solar Means Business 2019](#)”** (Solar Energy Industries Association, October 2020) ranks companies across the U.S. based on their installed on-site and off-site solar capacity in 2019. The top-10 included the following:

1. **Apple: 398.3 MW**
2. **Amazon: 369 MW**
3. **Walmart: 331 MW**
4. **Target: 284.8 MW**
5. **Google: 245.3 MW**
6. **Kaiser Permanente: 181.8 MW**
7. **Switch: 179 MW**
8. **Prologis: 133.7 MW**
9. **Facebook: 119.5 MW**
10. **Solvay: 81.4 MW**

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Energy company **Total** announced plans to **boost its annual investments in renewable energy and electricity to \$3 billion annually by 2030.** The company invested around \$2 billion in renewable energy and electricity in 2019. (October 2020)

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**PepsiCo** set a target to **source 100% renewable electricity** across all **company-owned and -controlled operations globally by 2030**, with plans to achieve this across its **entire franchise and third-party operations by 2040.** (September 2020)

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**Verizon** signed **four virtual power purchase agreements totaling more than 450 MW** of renewable energy capacity. The deals will help finance the re-powering of wind energy facilities and the construction of new solar facilities. (August 2020)

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**Duke Energy Renewables** has closed **\$109.4 million in preferred tax equity funding from Goldman Sachs’ Alternative Energy Investing Group** to fund approximately **75 MW of solar and solar-plus-storage** projects. (August 2020)

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**Facebook** signed a power purchase agreement with Apex Clean Energy to **source 170 MW of renewable power** from the Lincoln Land Wind project in Illinois.

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**The Estée Lauder Companies** announced the completion of **two new solar array projects in North America**. The company installed a **1.45 MW ground-mounted solar array** at its Melville campus in New York and one of its portfolio brands, **Aveda**, installed a **900 kW ground-mounted solar array** at its Blaine campus in Minnesota. (August 2020)

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**Ball Corporation** signed **two virtual power purchase agreements to source 93.4 MW of wind energy for its aluminum beverage packaging operations in Europe**. The new deals enable the company to address approximately **63% of its electricity load in Europe with new renewable energy**. (August 2020)

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**Chevron subsidiary Chevron U.S.A Inc.** announced a **4-year agreement with Algonquin Power & Utilities Corp. to co-develop 500 MW of renewable energy projects to help power Chevron's global facilities**. (August 2020)

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**Moody's Corporation** announced **new sustainability targets**, which include plans to source **100% renewable electricity** for its global operations **by 2025**. (August 2020)

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**Vodafone** announced plans to **power its entire European network with 100% renewable electricity by July 2021**. The company also set a target to **help customers save 350 million tonnes of CO2-equivalent emissions by 2030**. (July 2020)

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Semiconductor manufacturer **TSMC** signed a deal with **Ørsted** to purchase **920 MW of offshore wind power** over the next 20 years. The deal marks the **largest offshore wind purchase made by any company to date**. (July 2020)

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**Bank of America** signed **10 new agreements to purchase 200MW of solar electricity** for its operations in North Carolina, Texas, and South Carolina. The firm will purchase the solar electricity through agreements with Duke Energy, NRG Energy, 3Degrees, NativeEnergy, and Birdseye Renewable Energy. (July 2020)

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**Wells Fargo** signed an agreement with **Shell Energy** to **purchase nearly 63MW of renewable electricity** from solar plants in Virginia and California. (June 2020)

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**Duke Energy Florida** announced **plans to build three new solar power plants with more than 220MW of combined generation capacity**. The new projects will enable the company to achieve its commitment to provide 700MW of clean energy to customers by 2022. (June 2020)

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**Amazon** announced **five new utility-scale solar projects**, with a **combined 615 MW of additional renewable capacity**, to supply renewable energy to fulfillment centers and AWS



data centers. The company has **91 renewable energy projects totaling 2900 MW globally**. (May 2020)

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**Deutsche Bank** announced a set of **2025 targets** to increase its volume of sustainable financing and investments to at least €200 billion and **power 100% of its operations with renewable energy**. (May 2020)

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**General Mills** set a goal to achieve **100% renewable electricity by 2030**. (May 2020)

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**Nestlé UK** signed a **15-year power purchase agreement** with **Ørsted** for **31MW** of wind energy. As a result, Nestlé UK will **cover 100% of its power consumption with renewables** beginning next month. (May 2020)

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Luggage company **Samsonite** will **source 100% renewable energy by 2025**. (Mar 2020)

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**Corporate power purchase agreements (PPAs)** increased by a record **44% from 2018 to 2019**, according to a BNEF [report](#). The report also finds that around **19.5 GW** of clean energy contracts were signed by **more than 100 corporations** in 2019—up from **13.6 GW in 2018**, and **more than triple the activity seen in 2017**. (Feb 2020)

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The **Renewable Energy Buyers Alliance** updated its “[DealTracker](#),” which highlights the **largest corporate renewable energy purchasers** in 2019. (Feb 2020) The **top 10** included the following:

1. Facebook (1.546 GW)
2. Google (1.107 GW)
3. AT&T (.960 GW)
4. Microsoft (.624 GW)
5. T-Mobile (.581 GW)
6. Walmart (.541 GW)
7. Amazon (.487 GW)
8. Ball Corporation (.388 GW)
9. McDonald's (.380 GW)
10. Honda (.320 GW)

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**Yum! Brands** announced plans to source **100% renewable energy for its U.S. corporate offices by the end of 2020**. The company also plans to **remove styrofoam and expanded polystyrene** across all of its **KFC, Pizza Hut, and Taco Bell** locations worldwide by 2022. (Feb 2020)

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**Comcast** announced the completion of a **760-panel rooftop solar installation** at its multi-purpose facility in Washington, D.C. The system will reduce approximately 272 metric tons of

CO2 in the regional electricity grid — as much as 385 megawatt-hours of energy annually, or the equivalent of 37 homes' worth of electricity. (Feb 2020)

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**Google signed a solar-plus-storage deal with NV Energy to source up to 280 MW of renewable energy for its data center in Henderson, Nevada. (Jan 2020)**

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**PepsiCo announced plans to achieve 100% renewable electricity for its U.S. direct operations this year. This shift to 100% renewable electricity in the U.S. is expected to reduce the company's Scope 1 and 2 GHG emissions by 20% this year, compared to 2015 levels. (Jan 2020)**

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**Visa achieved 100% renewable electricity for its global operations.** The accomplishment will **reduce the company's Scope 2 emissions** from facilities and data centers by **nearly 90%**, compared to 2014 baseline levels. (Jan 2020)

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**3M pledged to source 100% renewable electricity for its global operations by 2050**, as part of The Climate Group and CDP-led **RE100** initiative. The company has set an **interim target** to source **50%** renewable electricity for its global operations by 2025. (2019)

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**Google increased the “value” of its wind energy by 20%** by applying **machine learning algorithms** to predict the output of its wind farms 36 hours ahead of actual generation. (2019)

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**Duke Energy achieved more than 1-gigawatt (GW) of utility-scale owned and operated solar capacity** nationwide. The company's owned solar capacity could serve energy to approximately 2 million homes at peak output. (2019)

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Energy provider **E.ON** announced that it is now **supplying 100% renewable electricity to 100% of its customers in the UK.** (2019)

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**Apple nearly doubled the number of suppliers** that have **committed to power their Apple operations with 100% renewable energy**, bringing the total number of supplier renewable energy commitments to **44**. As a result, the company expects to **exceed its goal of bringing 4 GW of renewable energy into its supply chain by 2020.** (2019)

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**Amazon** announced a set of **new sustainability commitments**, which include plans to become **net zero carbon by 2040**, achieve **100% renewable energy by 2030**, **invest \$100 million** to restore and protect forests, wetlands, and peatlands, and **deploy 100,000 fully-electric delivery vehicles by 2030**. The company also partnered with Global Optimism to create “[The Climate Pledge](#),” which aims to boost corporate action to help **achieve the goals set out by the Paris Agreement 10 years early.** (2019)

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**Google announced the largest corporate renewable energy purchase to date, which includes a 1,600 MW package of agreements and 18 new energy deals. The company stated that these deals will boost its global wind and solar energy capacity to 5,500 MW, a more than 40% increase. (2019)**

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**Unilever achieved 100% renewable electricity for its operations across five continents. (2019)**

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**Ingersoll Rand brands Trane and Thermo King have joined the Alliance to Save Energy 3% Club, RE100, and EP100. The brands pledge to improve operational energy efficiency by 3% annually (Alliance to Save Energy 3% Club), set a 100% renewable electricity target for its global operations by 2040 (RE100), and double its energy productivity by 2035 (EP100). (2019)**

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**IKEA announced that it would make \$110 million available to help its direct suppliers transition to renewable energy use in their operations. (2019)**

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**McDonald's has signed two virtual power purchase agreements to source a combined 380 MW of renewable energy from a wind power project located in Coke County, Texas and a solar project located in Texas. The power generated from these projects are expected to prevent over 700,000 metric tons of carbon emissions annually. (2019)**

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**Amazon announced three new renewable energy purchases in the US and UK, totaling 265 MW of additional renewable energy capacity and approximately 670,000 MWh of energy annually. The company has nearly 70 renewable energy projects that have the capacity to generate over 1,600 MW and deliver more than 4.6 million MWh of energy annually. (2019)**

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**Procter & Gamble is now purchasing 100% renewable energy in the US, Canada, and Western Europe. These three markets represent over 70% of the company's purchased electricity. (2019)**

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**Google will invest approximately \$150 million into renewable energy projects in "key manufacturing regions" for its products. (2019)**

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**DuPont launched its 2030 sustainability goals, which include plans to align 100% of its innovation portfolio to meaningfully advance the SDGs, design 100% of its products and processes using sustainability criteria, cut GHG emissions by 30%, source 60% of its electricity from renewable energy, achieve carbon neutral operations by 2050, and more. (2019)**

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NextEra Energy subsidiary **Florida Power & Light Company** announced plans to **install more than 30 million solar panels across Florida by 2030**, which would be the largest installation of solar panels by a regulated utility in the world. The company expects to achieve a **67% fleet-wide reduction in CO2 emissions by 2030**, compared to the national average. (2019)

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**Keurig Dr Pepper** launched its new “**Drink Well. Do Good.**” corporate responsibility strategy, which includes plans to source **100% of its electricity from renewables** by 2025. (2019)

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**Publicly announced corporate renewable energy deals** from PPAs, green power purchases, green tariffs, and outright project ownership in the **United States** cumulatively **reached an annual high of 6.43 GW in 2018**—up from **3.22 GW in 2015**, according to [new figures](#) released by Rocky Mountain Institute’s **Business Renewables Center**. The figures show that **Facebook, AT&T, Walmart, ExxonMobil, and Microsoft** were the **top five renewable energy purchasers** in 2018. (Dec 2018)

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[“Solar Means Business 2018”](#) (Solar Energy Industries Association, 2019) **ranks companies** across the U.S. based on their **installed on-site and off-site solar capacity in 2018**. The **top-10** included the following:

1. Apple: 393.3 MW
2. Amazon: 329.8 MW
3. Target: 242.4 MW
4. Walmart: 208.9 MW
5. Switch: 179 MW
6. Google: 142.9 MW
7. Kaiser Permanente: 140 MW
8. Prologis: 126.3 MW
9. Solvay: 81.4 MW
10. Fifth Third Bank: 80 MW

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