Eco friendly power plant

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5 Types of Eco Friendly Energy Sources

Eco-Friendly Energy: 8 Ways Plants Play a Role in Renewable Power

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Sustainable power is set to become a ubiquitous part of our future through their reliable low-carbon properties enabling consumers to pay less for electricity and mitigate the impacts of climate change. Currently, there are four major sources of renewable energy recognized by the U.S Energy Information Administration as being the main sustainable power producers: biomass, hydropower, geothermal, wind, and solar.

By using photovoltaic panels to convert sunlight into energy, solar power makes the most of the Sun"s daily cycle to harvest energy efficiently. A cheap and easy way of providing electricity, solar power is one of the largest forms of sustainable energy available, producing 570 TWh globally in 2018 and on track to expand its capacity up to 50% by 2024. Solar energy has been used to lead an energy transition away from fossil fuels, electrifying rural communities and driving sustainable development.

Low operation costs, low carbon emissions, efficient power production and the rise of batteries has made solar energy a force for utilities companies – even the most reticent to embrace renewables. On top of the utilities sector, the aviation industry has also begun to innovate by using solar energy as a means to reduce their carbon footprint. Investment in solar has continued to increase, with nations like China taking the lead in implementing large-scale solar projects.

This source of energy is becoming one of the most affordable and accessible, owing to years of investment and development within the solar industry. Along with continued innovation within the field of lithium-ion batteries, solar power has become a major source of employment and electrification globally.

Hydropower is one of the oldest forms of sustainable energy in use, dating back several thousand years, and it has grown to encompass several forms of water-based power generation. The most recognizable form of hydropower comes in the form of dams like the Hoover (USA) or Three Gorges (China), where they produce electricity by letting water flow through its generators downstream. Responsible for 16% of total global energy production, hydropower is currently the world"s largest source of sustainable energy.

Hydropower refers to the use of water"s movement as a medium for energy generation. Including dams, tidal and wave-power, hydroelectricity"s wide range of sources reflect its versatility and ability to be used almost everywhere. A dominant form of sustainable power, hydropower was responsible for 4,200 TWh of energy production in 2018. Featured in the electrical grid of a vast range of countries, hydropower is one of the most

mainstream forms of sustainable energy found on the current energy market.

Hydroelectric dams are playing a leading role in Costa Rica"s ability to run almost exclusively on renewable energy while innovation in wave power in Orkney has furthered research in sustainable development. Capable of storing energy through pumped storage facilities, hydropower provides both alternative energy and storage options. Along with other forms of sustainable energy, hydro is expected to increase its capacity and help lead a transition away from fossil fuels.

Another form of sustainable energy that has been used for millennia, windmills have evolved from grinding grain and pumping water to become wind turbines capable of harnessing large amounts of energy. The large blades that make up the turbine are driven by the wind and power the generator within it to produce energy. One of the fastest growing forms of renewable energy, wind farms can be installed at sea and on land, and have played a major part in the global transition away from fossil fuels.

A form of sustainable energy that has continued to develop and innovate, wind power has gained popularity with utility companies due to its cost-efficient power generation. Installed in areas exposed to high amounts of wind, turbines work by using their large blades to capture the wind"s power and use it to turn a generator, creating energy. In recent years, wind power capacity has greatly increased in Europe, the United States and China, with close to 600MW of installed capacity reported in 2018 – and calls to triple that capacity by 2030.

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