

Renewable Energy Construction Company Explains the Main Types of Renewable Energy

November 01, 2022

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STEVENS Engineers & Constructors, a company based in Middleburg Hts, OH, has recently released an article that discusses the main renewable energy types. Shifting the focus from nonrenewable energy sources to renewable energy sources is essential because of the negative effects fossil fuels can have on the environment. Incentives for renewable energy, especially regarding electric power production, has resulted in a rise in biomass and other renewable energy sources starting in the middle of the 1980s. Currently, many countries want to increase their usage of renewable energy to reduce and prevent carbon dioxide emissions.

The most common types of renewable energy are: solar energy, wind energy, hydro energy, tidal energy, geothermal energy, and biomass energy. Using renewable energy sources is essential for the future due to various reasons. First and foremost, countries want to focus on renewable energy sources because they are substantially more abundant than fossil fuels. Second, the clean energy that they provide may be used to halt the advance of global warming. This may be the more important benefit of renewable energy because they have little to no harmful emissions. Thus, reaching the net zero goals of various countries will largely depend on expanding the use of renewable energy sources.

Solar energy is an important renewable energy source because of the abundance of sunlight. The volume of solar energy reaching the Earth?s surface in just one hour is more than the planet?s annual energy requirements. The only thing needed is a way to convert solar energy into electricity. This is possible through the creation of solar farms, which can produce energy for thousands of homes. These solar farms are designed to use mirrors to focus the sun?s rays across acres of solar cells.

Another vital source of renewable energy is the wind. Wind farms are designed to harness wind power by converting kinetic energy through huge wind turbines. Wind energy doesn?t have any harmful emissions or create carbon dioxide. Hydropower is one of the most commercialized types of renewable energy sources. This is because hydroelectric power is usually more cost-effective than solar or wind power.

It should be noted, however, that there are also some disadvantages of renewable energy. First of all, they can?t always be relied upon. For instance, sunlight may not always be strong enough when it is obscured by clouds. And the wind doesn?t blow constantly. There are times when there is little to no wind. That is why many countries still use fossil fuels in order to supplement the energy provided by renewable energy sources. Reliable energy storage systems are needed to ensure that electric power will constantly be available during those times when sunlight or the wind is not strong enough to supply the energy required.

Founded in 1970, STEVENS Engineers & Constructors has more than 75 years of experience in providing top-quality construction services. They began as Stevens Painton Corporation in February 1970 after Stevens Construction, which started in 1919, merged with Eddie Painton and Associates, founded in 1915. STEVENS Painton started as an excavation contractor and highway bridge builder and played a vital role in wastewater treatment plants, but they gradually moved to their current focus on renewable energy projects. In 1991, they added industrial engineering to their services after acquiring CDMG. And in 2009, the company changed its name to STEVENS Engineers & Constructors, Inc., and currently specializes in demolition, heavy rigging, earthwork, excavation, civil concrete, pre-engineered metal buildings, and renewable energy construction. They also specialize in construction management and plant maintenance, structural steel erection, shutdown and turnaround services, and mechanical equipment setting and alignment.

Those who would like to know more about renewable energy construction, such as solar farm construction, can check out the STEVENS Engineers & Constructors website or contact them by telephone or email.
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For more information about STEVENS Engineers & Constructors, contact the company here:STEVENS

Engineers & ConstructorsVicki Anderson(440) 234-7888info@stevensec.com7850 Freeway Circle, Suite 100Middleburg Hts, OH 44130


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pipeline increased by 24%. The growth of wind energy is rapid as turbines get bigger and projects continue to be developed. Wind energy is the most economical choice when compared to other energy systems. Out of coal, natural gas, nuclear, hydroelectricity, solar photovoltaics, and biomass, wind energy is the cheapest form of energy. There are many benefits associated with wind energy, including: ? Lowering greenhouse gas emissions ? Reducing dependence on foreign oil imports Our subsidiary, CDMG, has considerable experience in this industry with its involvement in the Port of Albany offshore wind turbine manufacturing facility. Another part of our company, Chemsteel, has installed foundations for a large wind farm project in West Virginia. Solar Energy A photovoltaic power station, also known as a solar farm, is a large area with solar panels that turn the sun's energy into electricity. Solar farms can help decrease the use of electricity from fossil fuel sources. We have experience in constructing and servicing renewable energy projects like solar farms that help America move forward. Hydrogen Power Cell Fuel cells are an emerging option in the energy market. They use electricity to split water into oxygen and hydrogen gas, which are used to produce energy. This process produces no emissions and is clean, efficient, and sustainable. But there are some challenges to overcome before fuel cell technology can become mainstream. Hydrogen needs to be produced efficiently and safely, stored securely, transported easily, and consumed reliably. And it must be affordable, durable, and easy to maintain. The hydrogen power systems are designed for mobility and scalability. They are compact, lightweight, modular, and flexible. They can be installed quickly and efficiently and can be scaled up and down depending on site requirements. And while the production of solar, wind, and hydrogen has been the focus of reducing carbon emissions, one of the most overlooked aspects of clean energy is storage. Why Is Battery Storage Important? One of the often forgotten or overlooked aspects of alternative energy sources is battery storage. Solar-powered machines and clean energy generation is useless if you don't have a way to store the energy they produce. Having reliable energy storage can help these renewable forms of energy be available for use. These battery storage energy systems can be charged by the electricity from a clean energy source like wind power or solar panels. At STEVENS, our goal is to be the energy storage contractor that is leading the way in bringing renewable energy to businesses and homes to help reduce the use of non-renewable fuel sources. Keep ready to see why choosing us as your renewable energy construction company is the best choice. Let's Make Renewable Energy Construction The Present, Not The Future The construction industry is making great leaps toward greener technologies, but if we want to push these renewable energy sources to be commonly used by energy providers, the work has to start now. With decades of combined experience serving clients of all types and sizes, our union crews have the knowledge and skills needed to meet the demands of renewable energy-sector projects. If you're looking for a construction company to help with renewable energy sources like solar power, wind turbines, and even hydrogen modular plants, STEVENS is your best choice. Choose the best construction company in the renewable energy industry, and get started on your project today! ",

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"articleBody": "What Are The Main Types Of Renewable Energy? A source of energy that can be used repeatedly, like the sun, is called a \"renewable energy source.\" When people talk about alternative energy, they usually mean renewable energy. It refers to sources of energy that can be used instead of coal and other sources that can't be used forever. In the article below, we will discuss the most common types of renewable energy. Key Takeaways About Renewable Energy: The United States uses a lot of nonrenewable energy sources like coal, natural gas, and oil. A lot of nations are working to increase renewable energy as a means of lowering carbon dioxide emissions. Some of the most common forms of renewable energy are solar power, wind energy, hydropower, and geothermal. Renewable energy construction projects are important as they help us to not rely solely on fossil fuel sources Star your renewable energy project with STEVENS! Table Of Contents Most Of Our Energy Is Nonrenewable Renewable Energy Was The Main Source Of Energy For Most Of Human History The Most Common Types Of Renewable Energy What Are The Benefits Of Renewable Energy? Are There Any Disadvantages Of Renewable Energy? Are Renewable Energy Resources The Same As Clean Or Green Energy? Start Your Renewable Energy Project Today! Most Of Our Energy Is Nonrenewable In the United States, most energy used to do work comes from nonrenewable energy sources. Nonrenewable energy sources include coal, natural gas, and oil, which are all fossil fuels. These sources can be found in nature but are finite in their amount. Nonrenewable energy sources often take

thousands of years to form, and they have to be taken out of the ground and burned to make the energy that makes electricity. When they are burned, they also give off dangerous greenhouse gases like CO2. Coal, natural gas, and petroleum are all made from the buried remains of sea plants and animals that lived millions of years ago. Most of the petroleum products used in the U.S. are made from crude oil, but petroleum liquids can also be made from natural gas and coal. Uranium produces nuclear energy, when they're atoms are split (nuclear fission) it creates a nonrenewable energy source to make heat and, eventually, electricity. Scientists think that uranium was made billions of years ago when the stars were made. Uranium is found in the crust of the Earth, but most of it is too hard or expensive to mine and turn into fuel for nuclear power plants.

Renewable energy has been the main source of energy for most of human history For the majority of human history, biomass from plants have been the main energy source. In the United States, nonrenewable energy sources started to overtake most renewable energy consumption in the early 1800s. By the early 1900s, fossil fuels had become the primary energy source. The use of biomass for homes was still a source of energy, primarily in rural areas and as an additional heat source in metropolitan areas. Incentives for renewable energy, particularly for electricity production, led to an increase in biomass and other renewable energy sources starting in the middle of the 1980s. A lot of nations are aiming to boost the usage of renewable energy as a means of lowering and preventing carbon dioxide emissions.

The Most Common Types Of Renewable Energy Solar Energy One of the most readily available energy sources on our planet is sunlight. The volume of solar energy that reaches the globe's surface in a single hour exceeds the planet's annual energy needs. Solar farms can create enough energy for thousands of homes, by utilizing mirrors to focus the light of the sun across acres of solar cells. The amount of solar energy we can utilize varies depending on the time of day, the season of the year, as well as our geographic location, despite the fact that it may seem like the perfect renewable energy source. Solar energy is becoming a more and more common alternative to complement your energy use in the U.S.

Wind Energy Another plentiful source of renewable energy is wind. With wind power contributing more and more to the electric grid, wind farms are becoming a more common sight in parts of the U.S. Wind energy harnesses the kinetic energy of moving air by using large wind turbines located on land (or in bodies of water. Wind energy doesn't release any harmful products or produce carbon dioxide that can cause environmental damage or affect human health negatively, like smog, acid rain, or other heat-trapping gases. Even though \"off-grid\" or household power methods exist, not every property can accommodate a residential wind turbine.

Hydro energy Hydropower is one of the most commercially established sources of renewable energy. A big reservoir can be utilized to create a regulated flow of water that will drive a turbine and produce power by erecting a dam or barrier. The ability to store electricity for use during peak demand often makes hydroelectric energy more reliable than solar or wind power (especially if it's tidal rather than river-based). Hydroelectric power can occasionally be more cost-effective as a commercial energy source (depending on the type and compared to other energy sources), but it can also be utilized for domestic, \"off-grid\" generating.

Tidal Energy Another hydro energy source is tidal power, which uses twice-daily tidal currents to power turbines and feeds the power grid. Even though the tidal flow isn't constant, unlike other hydro energy sources, it is very predictable and may make up for times when the tide current is weak.

Geothermal Energy Geothermal energy can be utilized to heat

homes directly or to generate power by utilizing the natural heat that exists beneath the earth's surface. Geothermal energy is important to nations like Iceland, where geothermal heat is considerably more freely available, despite harnessing a power just beneath our feet. Biomass Energy In this process, solid fuel created from plant resources is transformed into electricity. Although the core of biomass is the burning of organic materials to create electricity, this process is now cleaner and more energy-efficient. Biomass creates power at a significantly lower financial and environmental cost by turning home, industrial, and agricultural waste into solid, liquid, and gas fuels. What Are The Benefits Of Renewable Energy? Harnessing the potential of renewable energy sources is crucial for our future for a number of reasons. Governments worldwide are working to create renewable energy sources since they are significantly more abundant than fossil fuels. The clean energy that renewables supply will be essential in halting further global warming, which is perhaps the most critical factor. When used, renewables emit little to no harmful emissions. Because of this, achieving many of our future net zero goals will depend on expanding their current use. Are There Any Disadvantages Of Renewable Energy? Numerous renewable energy sources, as we already established, cannot always be relied upon. We cannot produce solar power when the sun sets or is obscured by clouds or wind power when there is no wind. Because of this, many nations continue to supplement their renewable energy sources with fossil fuels. Due to this varying production capacity, substantial energy storage systems are needed to ensure that there is always adequate electricity when the production of renewable energy drops. An alternative solution is using many renewable technologies to build a more adaptable supply chain that can offset drops in production for a particular source. Some renewable resources, including biomass and hydropower, do not experience these supply issues, but each has a unique environmental impact. Additionally, some renewable energy sources, including wind and solar farms, are a source of complaints from nearby residents who do not wish to live near them. Are Renewable Energy Resources The Same As Clean Or Green Energy? Although the phrases \"green energy,\" \"clean energy,\" and \"renewable energy\" are sometimes used synonymously, there is a significant distinction between them. Electricity generation using a clean source of energy is emission-free. However, a \"carbon cost\" may occasionally be associated with its production or upkeep. For instance, in order to build hydroelectric facilities with a dam, natural areas must be cleared, and this effort frequently results in carbon emissions. Green energy is produced entirely naturally and has little to no negative environmental effects during production or consumption. One of the benefits of solar energy systems is that they don't create greenhouse gases or pollute the air if they are responsibly built, most solar panels have few environmental impacts beyond manufacturing. They both have the potential to be renewable sources of electrical energy, which means their source is inexhaustible. So, while most green energy sources are renewable sources, not all renewable energy sources are considered green. START YOUR RENEWABLE ENERGY CONSTRUCTION ProjECT TODAY The construction industry is making great leaps toward greener technologies, but if we want to make renewable energy sources more common, we need to start the process today. With decades of combined experience serving clients of all types and sizes, STEVENS' crews have the knowledge and skills needed to meet the demands of renewable energy construction projects. If you're looking for a construction company to help with renewable energy sources like solar power, wind turbines, and even hydrogen modular plants, STEVENS is your best choice. If

you're ready to get started on your renewable energy construction project with the best construction company in the renewable energy industry, click on the link below. References: https://www.twi-global.com/technical-knowledge/faqs/renewable-energy#Disadvantages https://www.nationalgrid.com/stories/energy-explained/what-are-different-types-renewable-energy https://www.eia.gov/energyexplained/what-is-energy/sources-of-energy.php https://www.edfenergy.com/for-home/energywise/renewable-energy-sources",

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STEVENS Engineers and Constructors provides complete industrial construction services from our office in Middleburg Heights, Oh near Cleveland. We offer high-quality design, build, and management services to industrial customers across the United States.

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