

**Pre-Writing Activities**

1. **Read the following text about Wind and Solar Power**

**https://encrypted-tbn0.gstatic.com/images**

Wind is a primary choice for clean energy that can significantly reduce pollution and has minimal operational costs. It can also help reduce our reliance on oil and gas. Wind energy can provide electrical power for homes and utility grids and can be stored in batteries and used to pump water. A major benefit of wind energy is that it can enable households and businesses to generate and store their own electricity onsite and gives them backup power if the traditional utility grid fails. Wind power is generated by taking the air that flows through turbines and converting this kinetic energy into mechanical power. There are two categories of wind power. The first is utility scale wind which uses wind turbines larger than 100 kilowatts to provide energy to entire regions via utility companies. Land-based utility scale wind is one of the cheapest energy sources available today and promises to become even more affordable as the technology develops. The second is distributed wind which makes use of turbines smaller than 100 kilowatts to provide power to homes and small businesses directly.

Solar power is a leading source of clean, renewable, and increasingly affordable energy that can help us break our dependence on fossil fuels as a reliable source of energy. Home owners can easily install solar panels on their roofs and enjoy energy bill savings. In some countries, users can also qualify for tax breaks or energy rebates for any excess energy they produce that is delivered to the utility grid. Rooftop solar panels also provide a useful source of backup energy. Solar power's energy is captured from the sun's rays and then converted into thermal or electrical energy. There are three types of solar energy. The first is photovoltaics which generates energy from sunlight through an electronic process used to power small electronic devices, road signs, homes and small businesses. The cost of residential photovoltaic solar power has dropped from $0.50 per kilowatt hour in 2010 to $0.128 per kilowatt hour in 2020. The second type is solar heating and cooling which uses the sun's heat to provide homes with hot water and to provide space heating and cooling. The final form is concentrated solar power that uses the sun's heat to run traditional turbines that generate electricity for utility grids.

Adapted from https://www.teach-this.com/academic-english-worksheets-activities/compare-and-contrast-essays

**2. Complete these definitions with words from the text.**

1. Amounts of money that are paid back to you…

2. Describing something that is concerned with movement....

3. A unit of measuring power or energy that is equal to 1,000…

4. An area that has only houses and not offices or factories…

5. Describing the process of creating electrical energy from light…

6. Describing something that relates to or is caused by heat …

7. Located in the place people live or work and not elsewhere...

8. A service, such as an electricity or gas supply, that is used by the public…

9. To put a machine or a piece of equipment into position, and make it ready to use...

10. Machines with a wheel that is driven by the movement of liquid or gas...

**3. Design a chart considering different aspects about Solar and Wind Energy:**

a-Source of energy, b-Installation, c-Cost, d-Energy storage, e-Types, f-Environmental impact, g-Backup power, h-Geographical dependence, i-Efficiency, j-Government incentives

**4. Order the sentences and complete the gaps using these linking words:**

**Both, On the one hand, On the other hand, Likewise, However, In conclusion**

Champions of Clean Energy: Wind and Solar Power

A-*\_\_\_\_\_\_\_\_\_\_\_\_, wind energy is often more efficient and effective in various geographical locations with sufficient wind, whereas solar energy is most beneficial in sunny regions.*

B-\_\_\_\_\_\_\_\_\_\_\_\_\_\_, *while wind and solar energy have their unique advantages and challenges, they complement each other in promoting a sustainable energy future.*

C-*\_\_\_\_\_\_\_\_\_\_\_\_ wind energy and solar energy play significant roles in the transition to clean, renewable energy sources.*

D-\_\_\_\_\_\_\_\_\_\_\_\_\_\_, *solar energy captures sunlight through panels, allowing homeowners to save on energy bills and potentially qualify for tax breaks for excess energy fed back into the grid.*

E-*\_\_\_\_\_\_\_\_\_\_\_\_\_\_, both energy sources contribute to reducing carbon emissions and reliance on fossil fuels, making them environmentally friendly options.*

F-*\_\_\_\_\_\_\_\_\_\_\_\_\_\_, wind energy harnesses kinetic energy from wind through turbines, offering lower operational costs and the ability to generate and store electricity onsite, which provides backup power during grid failures.*

**5. Now, write the paragraph in the correct order and you will have a model for your writing.**