

A Study on Renewable Energy Sources

Introduction

The global demand for energy is continuously rising, necessitating a shift towards sustainable and renewable sources. This paper explores various renewable energy technologies.

Solar Power

Solar energy harnesses sunlight using photovoltaic cells or concentrated solar power systems. It is a clean and abundant source.

Table 1: Global Energy Consumption by Source (2023)

Source	Percentage
Fossil Fuels	70%
Renewables	20%
Nuclear	10%

Wind Energy

Wind power is generated by converting wind energy into electricity using wind turbines. Its efficiency depends on wind speed and turbine design.

Key Advantages

Renewable sources offer environmental benefits, reduce reliance on fossil fuels, and promote energy independence.

Figure 1. Operational Wind Farm

(Imagine an image here)

Future Outlook.

The future of energy is undeniably renewable, with ongoing advancements in storage and efficiency.

Conclusion

The transition to renewable energy is a complex but necessary endeavor.