**Power BI Dashboard: Renewable Energy Statistics 2024**

* **Executive Summary**

This report explores the key insights gleaned from a Power BI dashboard built using data from the IRENA Renewable Energy Statistics 2024 report.

* **Data Source**

The primary data source for this dashboard is the IRENA Renewable Energy Statistics 2024 report, a comprehensive resource on global renewable energy capacity and generation.

* **Methodology**

Data from the IRENA report is filtered and visualized within the Power BI environment. The dashboard utilizes charts, such as bar charts and stacked bar charts, to represent key metrics.

* **Key Visualizations**
* Global Leaders in Electricity Generation: This chart identifies the top countries in terms of electricity generation from renewable sources. Analyzing this data reveals which regions are leading the shift towards clean energy.
* Installed Capacity by Country: This chart showcases the countries with the highest installed capacity for renewable energy production. This offers valuable information regarding infrastructure development and potential for future generation.
* Technology Breakdown: This chart provides a detailed breakdown of electricity generation by sub-technology and technology. This allows users to identify the most dominant renewable energy sources and potential areas for future growth.
* **Sub-Technology vs. Technology**
* Technology: This refers to the broad category of renewable energy source, such as solar, wind, hydropower, etc.
* Sub-Technology: This dives deeper into a specific type within a technology category. For example, solar technology can be further categorized into sub-technologies like photovoltaic (PV) solar or concentrated solar power (CSP).
* **Benefits of the Dashboard**

This Power BI dashboard offers valuable insights into the global landscape of renewable energy production. Users can gain a clear understanding of:

* Leading countries in renewable energy generation
* Regions with the most developed renewable energy infrastructure
* Dominant renewable energy sources and potential areas for future growth
* **Reference**

<https://www.irena.org/Publications/2024/Mar/Renewable-capacity-statistics-2024>

* **Conclusion**

This Power BI dashboard, based on the IRENA data, serves as a valuable tool for understanding the current state and future potential of renewable energy production globally.