VISUALIZATION PORTFOLIO PROPOSAL

RENEWABLE ENERGY STATISTICS IN AUSTRALIAN STATES AND TERRITORIES

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Course	ZZBU6507-Data Visualization and Communication (H325 Online)
Tutorial Time	May - June 2025
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Date	14/May/2025

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Theme and Dataset

This portfolio explores the current state and progress of renewable energy adoption across Australian states and territories, using data from the *Australian Energy Statistics – States and Territories* (Department of Climate Change, Environment and Water, Australian Government, https://www.energy.gov.au/). Key questions addressed include:

- How do renewable energy production and consumption vary across states?

- Which states are leading or lagging in renewable energy growth?

- What trends can be observed over time?

- What policy or behavioral insights can be drawn from these comparisons?

Aim and Audience

The portfolio aims to **drive behavioral and policy change** by increasing transparency and public understanding of renewable energy efforts across Australia. The **intended audience** includes **Australian citizens and government policymakers**, both of whom play key roles in accelerating the energy transition in line with the **Paris Agreement (2015)**. Citizens need to be informed to make sustainable choices, while policymakers need data-driven insights to shape effective policy.

Format and Context

The portfolio will be presented as an **interactive Tableau story**, combining dashboards, maps, and visual narratives. It is designed for a **policy briefing or stakeholder pitch**, where data storytelling can highlight both successes and shortcomings, prompting action at multiple levels.

Justifications and Alignment

This theme is timely, relevant, and impactful. The selected dataset is authoritative, comprehensive, and regularly updated, making it well-suited to answer the key questions. The Tableau format is chosen for its strong capability in visual storytelling and interactivity, which enhances comprehension and engagement among non-technical and policy-oriented audiences.

The visualization portfolio will offer **actionable insights**:

- **Awareness**: Identify state-level progress and gaps in renewable energy uptake.

- **Motivation**: Inspire underperforming states through comparisons with leaders like Tasmania and the ACT.

- **Actionability**: Promote individual decisions (e.g., choosing green energy, installing solar panels) and systemic reforms (e.g., subsidy reallocation, public transport investment, grid modernization).

By clearly illustrating progress and disparities, the portfolio will **normalize sustainable behavior**, inform strategic decision-making, and **support Australia's transition to a low-carbon future**.

References

Department of Climate Change, Energy, the Environment and Water. (n.d.). *Australian Energy Statistics – States and Territories*. Retrieved from https://www.energy.gov.au/energy-data/australian-energy-statistics/states-and-territories