

Business Problem

The analysis focuses on comparing the financial performance of **Adani Green** and **ReNew Power**, two key players in the renewable energy sector. The goal is to evaluate their revenue growth, profitability, asset management, and valuation metrics to derive actionable insights for stakeholders.

Data Requirement

The data required for the analysis includes:

- Revenue, profit, and expense figures (2019–2024).
 - Financial metrics like ROCE (%), ROE (%), and P/E ratios.
 - Assets and liabilities across the specified years.
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Data Collection and Data Understanding

The financial data was collected from internal company reports and validated dashboards. Key metrics like revenue, net profit, ROCE, and P/E ratios were examined over multiple years to identify trends and derive comparisons.

For instance:

- Adani Green's revenue grew significantly from ₹2,549 Cr in 2020 to ₹9,220 Cr in 2024, while ReNew Power's revenue increased from ₹12,000 Cr in 2019 to ₹25,007 Cr in 2023.
 - ROCE and ROE indicated efficiency and profitability trends.
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Data Validation (Bias/Transparency/Reliability)

The data validation process ensured:

1. **Bias Elimination:** Historical trends were checked against market reports to confirm accuracy.
2. **Transparency:** Key metrics were presented in dashboards for clear visualization.
3. **Reliability:** Data was verified against audited financial reports.

No significant biases or reliability issues were detected, ensuring robust insights.

Data Cleaning

Outliers such as dramatic ROCE drops (Adani Green in 2022) were cross-verified for external factors like industry challenges or market shifts. Any missing values or anomalies were appropriately filled or flagged.

Tools Selection

- **Microsoft Power BI:** Used for dashboard creation and data visualization.
 - **Excel:** Employed for preliminary data manipulation and statistical computations.
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Graphs/Charts

1. Bar charts for revenue, net income, and assets vs. liabilities.
2. Line graphs for ROCE, ROE, and P/E trends.
3. Pie charts for yearly contribution of net profits.

For example:

- **Adani Green:** ROCE dipped in 2022, rebounded to 8% in 2024.
 - **ReNew Power:** Consistent ROE growth to 12.5% in 2023.
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Dashboard

The dashboards provided a comprehensive view of financial trends:

- **Adani Green:** Highlighted strong net profit growth and asset expansion.
- **ReNew Power:** Emphasized consistent revenue growth and financial stability.

These visuals facilitated easy comparison and insights generation.

Storytelling (Business Impact)

The analysis underscores:

1. **Revenue Leadership:** ReNew Power maintains a larger revenue base than Adani Green, reflecting broader operational scale.
2. **Profitability Edge:** Adani Green exhibits stronger net profit growth, suggesting better cost efficiency.
3. **Valuation Trends:** P/E ratios show fluctuating investor sentiment, stabilizing toward recent years.
4. **Strategic Insights:**
 - ReNew Power should focus on profitability improvement.
 - Adani Green could enhance operational scale to compete on revenue.

This analysis aids investors and management teams in aligning strategies with market opportunities and financial performance.