

Renewable Energy Data Analysis Dashboard

A data-driven dashboard designed to visualize global renewable energy trends and inform sustainable-energy decisions.

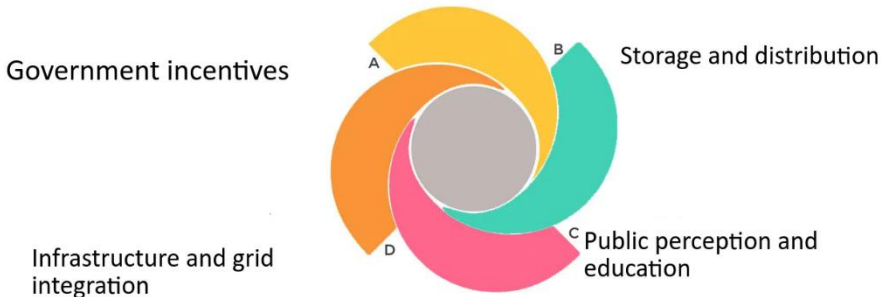
DULLA LOKESH VEERA SAI NANDAN
MANYAM TEJA SIVA GANESH GOUD
MOHAN SAI KRISHNA BHUVANASI

1M1B Green Skills Internship Batch 3 2025 | June 15,
2025

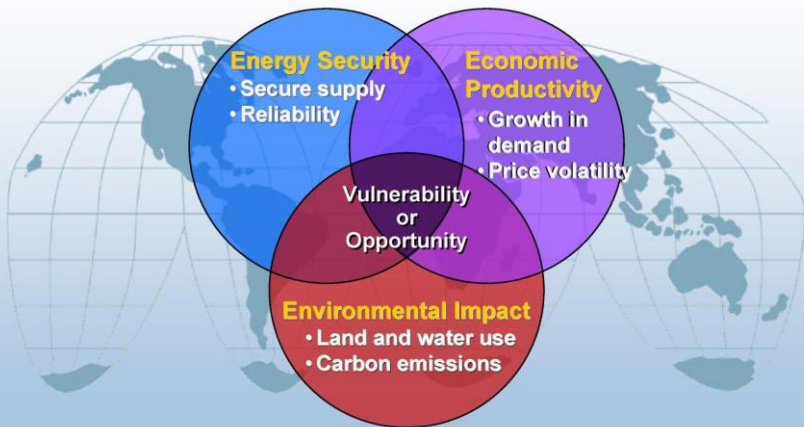
Problem: Addressing Gaps in Renewable Energy Insights

- Core Problem: Lack of accessible, clear insights into renewable energy adoption limits informed decision-making in policy and investment.
- Impact Dimensions:
 - Social: Enables community-level solutions for sustainable development.
 - Environmental: Promotes a shift to low-carbon energy systems.
 - Data: Global renewable capacity grew by 10.3% in 2022 (IRENA).
- Strategic Goal: Develop an interactive, data-rich dashboard to analyze and forecast renewable energy trends at global and national levels.

Challenges to the Adoption of Renewable Energy



Energy Solutions Are Enormously Challenging



Must address all three imperatives

Solution: Renewable Energy Data Analysis Dashboard

Interactive Visualization with Tableau

An interactive Tableau dashboard to explore solar, wind, and hydro energy trends across countries and over time. Users can filter by country, energy type, and year for deep, data-driven insights.

Sustainable Innovation

- Empowers data-backed decisions for renewable energy planning.
- Supports country-specific, year-wise analysis with visually rich trends.
- Scalable for integration with real-time or updated data sources.

Leverage
**Building-Integrated
Photovoltaics (BIPV)**

Utilize **Sustainable Building
Materials and Design** for
Waste Reduction

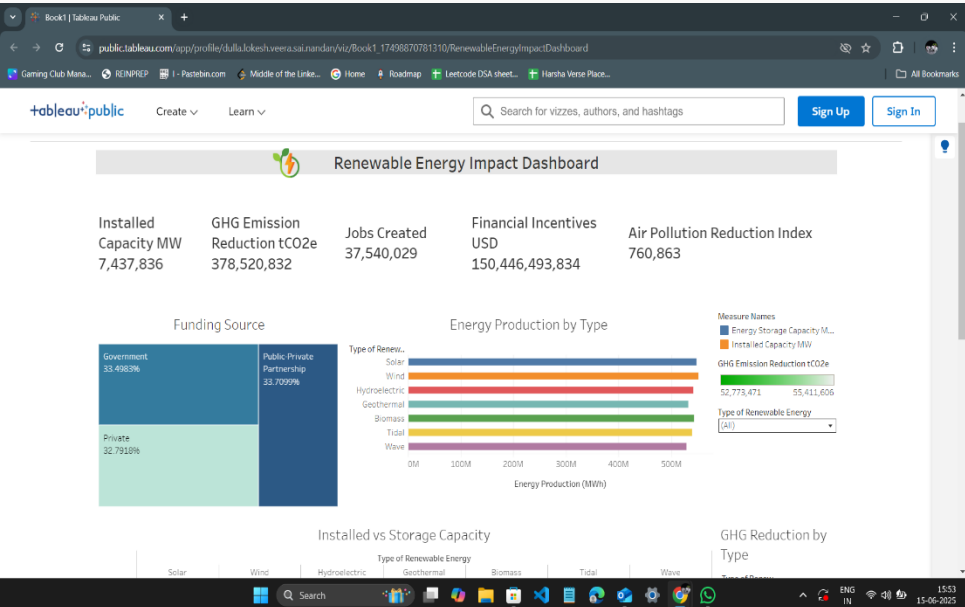
**Prioritize Energy
Efficiency** in Design
and Operations



Adopt **Advanced
Energy Storage** Systems

Integrate **Smart Grid
and AI Technologies**

Renewable Energy Data Analysis Dashboard



Impact Assessment

Environmental Impact

- **GHG Emission Reduction:** The dashboard identifies which renewable energy types are most effective at reducing greenhouse gas emissions, guiding policymakers to prioritize cleaner energy sources.
- **Air Pollution Reduction:** It highlights improvements in air quality, supporting global efforts to create a healthier environment.

Social and Economic Impact

- **Community Empowerment:** The dashboard enables communities to participate in sustainable energy initiatives, fostering local engagement and development.
- **Financial Incentives:** It reveals opportunities for financial support, promoting investment.

Thank You

Thank You!

We appreciate your time and interest in our Renergy Data
Analysis Dashboard.

For further inquiries, please contact the team:

DULLA LOKESH VEERA SAI NANDAN

MANYAM TEJA SIVA GANESH GOUD

MOHAN SAI KRISHNA BHUVANASI