

Scenario-Based Energy Forecast Document

1. Document Overview

This document presents a scenario-based forecast for energy consumption and production for the period 2025–2030. Multiple future scenarios are considered, accounting for varying key factors such as economic growth, policy interventions, and technological advancements.

2. Objectives

- Project energy demand and supply under different assumptions.
- Identify key drivers and uncertainties in the energy sector.
- Support decision making for stakeholders and policymakers.

3. Methodology

- Selection of three distinct scenarios: **Business As Usual (BAU)**, **Green Transition**, and **Delayed Progress**.
- Compilation of baseline data from national and international sources.
- Application of forecasting models to estimate energy supply and demand.
- Review of assumptions with subject matter experts.

4. Key Assumptions

Factor	BAU	Green Transition	Delayed Progress
GDP Growth Rate	2.5% / year	2.0% / year	1.5% / year
Renewable Energy Share (2030)	24%	40%	18%
Energy Efficiency Rate	1% / year	2.2% / year	0.5% / year
Policy Intervention	Moderate	High	Low

5. Results

Energy Demand Forecast (TWh)

Year	BAU	Green Transition	Delayed Progress
2025	420	410	430
2027	443	420	450
2030	482	435	480

Renewable Energy Production (TWh, 2030)

Scenario	Renewables Production
BAU	116
Green Transition	174
Delayed Progress	86

6. Conclusion

The scenario-based approach highlights the wide range of outcomes possible in the energy sector, driven by policy action, market trends, and technology adoption. Strategic planning should incorporate these uncertainties to ensure resilient and sustainable development.

Important Notes

- Scenarios are not predictions but tools for exploring possible futures.
- The quality of results depends on the accuracy of underlying assumptions.
- Regular updates are recommended as new data and technology emerge.
- Stakeholder collaboration improves scenario relevance and robustness.
- This document should be considered alongside other risk analyses and planning tools.