

Empowering India: Analysing the Evolution of Union Budget Allocations for Sustainable Growth

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3.4-Technology Stack:

The evolution of India's Union Budget reflects a decisive shift toward **sustainable growth** by prioritizing long-term capital expenditure, energy transition, and digital public infrastructure (DPI). The 2026-27 Budget, the largest in history at **₹53.5 lakh crore**, emphasizes "Viksit Bharat" through six key "Kartavyas" (duties), including strategic manufacturing and long-term energy security.

Evolution of Budget Allocations:

India's recent budgets have moved from consumption-led support to productivity-led growth.

Sector	FY 2024-25 (BE)	FY 2025-26 (BE)	FY 2026-27 (BE)
Total Budget	₹48.21 Lakh Cr	₹50.65 Lakh Cr	₹53.5 Lakh Cr
Capital Expenditure	₹11.11 Lakh Cr	₹15.5 Lakh Cr	₹12.2 Lakh Cr
Renewable Energy (MNRE)	₹12,850 Cr	₹19,100 Cr	₹25,649 Cr
National Green Hydrogen	₹600 Cr	₹300 Cr (RE)	₹600 Cr
Semiconductor Mission	₹6,903 Cr (RE)	₹1,000 Cr (Phase 2.0)	—

❖ Requirement Analysis for Sustainable Growth:

- **Energy Transition:** Focus has shifted from general solar to high-impact schemes like **PM Surya Ghar Muft Bijli Yojana**, which saw an 81% allocation increase to ₹20,000 crore in FY26.
- **Clean Technology:** The **National Manufacturing Mission** now prioritizes domestic production of solar PV cells, EV batteries, and wind turbines.

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- **Baseload Stability:** A new **Nuclear Energy Mission** (₹20,000 crore) aims to develop 100 GW by 2047, focusing on indigenously developed small modular reactors (SMRs).
- **Climate Resilience:** The **National Critical Minerals Mission** (₹4,100 crore in FY26) focuses on securing the supply chain for batteries and electronics.

❖ Technology Stack for Budgetary & Sustainable Analysis

The government and financial institutions utilize a "full-stack" approach to manage and analyze these massive allocations:

- **Digital Public Infrastructure (DPI):** India's "AI stack" integrates applications, models, and compute infrastructure. The **IndiaAI Mission** (₹10,371 crore) powers this by expanding GPU access.
- **Agricultural Intelligence:** **Bharat-VISTAAR**, a multilingual AI tool, integrates "Agri-Stack" data to provide real-time advisory services to farmers.
- **Logistics & Compliance:** The **Customs Integrated System (CIS)** and a single digital window for cargo clearance leverage AI for non-intrusive scanning and risk assessment.
- **Corporate Analytics:** Tools like **SAP Concur** and **Zoho Expense** are used by Indian enterprises for real-time spend visibility and automated policy enforcement to align with ESG (Environmental, Social, and Governance) goals.
- **Data Infrastructure:** To support global workloads, a tax holiday until 2047 has been introduced for hyperscalers investing in **Data Centres** in India.

