

Changes Since the Last Iteration

The latest survey results show an evolution in key uncertainties, shifting from broad issues like **climate change** and **commodity prices** to more specific concerns such as **climate adaptation, mitigation, reparations, affordability, and fossil fuel subsidies**. This reflects a deeper understanding of the multifaceted nature of climate challenges and the economic implications of the energy transition. Increased global awareness and international dialogues, like COP26 and COP27, have spotlighted these specific climate issues, emphasizing the need for targeted actions. The addition of **affordability** and scrutiny of **fossil fuel subsidies** highlights the importance of ensuring that clean energy solutions are accessible to all socioeconomic groups and that policies do not perpetuate economic inequality.

Despite these changes, the core action priorities remain consistent: **demand management, accessibility, supply chains, domestic growth, and risk to peace**. This consistency underscores ongoing critical challenges in the energy sector, indicating that while our understanding of uncertainties has evolved, the fundamental areas requiring attention have not shifted significantly.

Five-Year Country Trends

Over the past five years, key uncertainties and action priorities in the energy sector have evolved significantly, reflecting technological advancements and shifting geopolitical dynamics. From 2019 to 2023, climate change and commodity prices have consistently remained central uncertainties. The table below summarizes the Key Uncertainties and Action Priorities for each year during the period 2019-2023.

Year	Key uncertainties	Action priorities
2019	Regional Integration, Electric Storage, Market Design & Regulation, Trade Barriers, US Policy	Renewable Energy, Energy Efficiency, India growth
2020	Extreme weather, Middle East Dynamics, Electric Storage, Climate change Management	India Growth, Energy Efficiency, Renewable Energy
2021	Commodity prices, Electric storage, Cyber security, Economic growth, geopolitics	Energy efficiency, Renewable Energy, Market Design, Regulations
2022	Commodity prices, Climate change management, electric storage innovation, Economic growth market design	Quality energy access, Renewable Energies, Energy Efficiency, Digitalization
2023	Climate adaptation, Climate mitigation, climate reparations, affordability and fossil fuel subsidies	Demand Management, Accessibility, supply chain, domestic growth, Risk to peace

Over this period, the trend towards addressing **electric storage** moved from being a key uncertainty to a more actionable area, due to technological advancements in lithium-ion batteries and supportive policy landscapes. **Energy efficiency** has consistently been an action priority, recognized as a straightforward, impactful measure in the energy transition. Overall, the trends indicate an accelerating focus on addressing specific climate issues and integrating advanced technologies into the energy sector, while maintaining steady progress on foundational priorities like energy efficiency and renewable energy.

Leadership in Community Integration

In India's energy transition, several leadership trends are emerging that integrate people and communities, focusing on inclusivity, innovation, and sustainability. These trends involve various stakeholders including government, corporations, community-based organizations, and educational institutions, each playing a crucial role in ensuring the transition benefits all segments of society.

1. **Government Initiatives:** The government is spearheading initiatives like the **National Hydrogen Mission, PM Suryodaya Yojana** which aims to install rooftop solar over 1 crore households and **PM-KUSUM** (Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan), promoting decentralized solar solutions and supporting farmers with solar pumps and grid-connected solar power plants. These initiatives aim to enhance rural electrification, increase farmers' income, and ensure sustainable energy access.
2. **Corporate and Industry Leadership:** Major corporations which include both PSUs in energy sector as well as private entities in energy sector are investing heavily in renewable energy projects. They are developing large-scale solar and wind farms and exploring hydrogen energy.
3. **Grassroots Movements and NGOs:** NGOs like **Barefoot College** (recently awarded by the World Energy Council at the 26th World Energy Congress in Rotterdam) empowers rural women by training them as solar engineers who bring electricity to their communities. This initiative not only provides clean energy but also promotes gender equality and local leadership.
4. **Innovative Financing Models:** Crowdfunding platforms are being used to raise funds for community solar projects, enabling broader participation in the energy transition. Microfinance institutions are also providing loans for renewable energy installations, particularly in rural areas, ensuring accessibility for low-income households.
5. **Educational and Training Programs:** As per [World Bank](#), 'India is the only country in the region where the government has established a Skills Council for Green Jobs (SCGJ), which identifies the skilling needs and promote development to meet the job requirements for "green business" development'. Such programs are creating a skilled workforce for the renewable energy sector.

INSIGHTS FROM THE 2024 ISSUES SURVEY RESULTS

Faster, Fairer, and More Far-Reaching Energy Transitions with a Focus on Scaling Up

The 2024 Issues Survey results indicate a clear shift towards specific climate-related concerns such as **climate adaptation, mitigation, and reparations**, along with economic considerations like **affordability** and **fossil fuel subsidies**. This suggests a growing recognition of the need for rapid and inclusive energy transitions. The focus on affordability and subsidies highlights the importance of ensuring equitable access to clean energy solutions, enabling a fairer transition.

Policy & Ecosystems to Enable Transparent, Transformational, Trustworthy Transitions

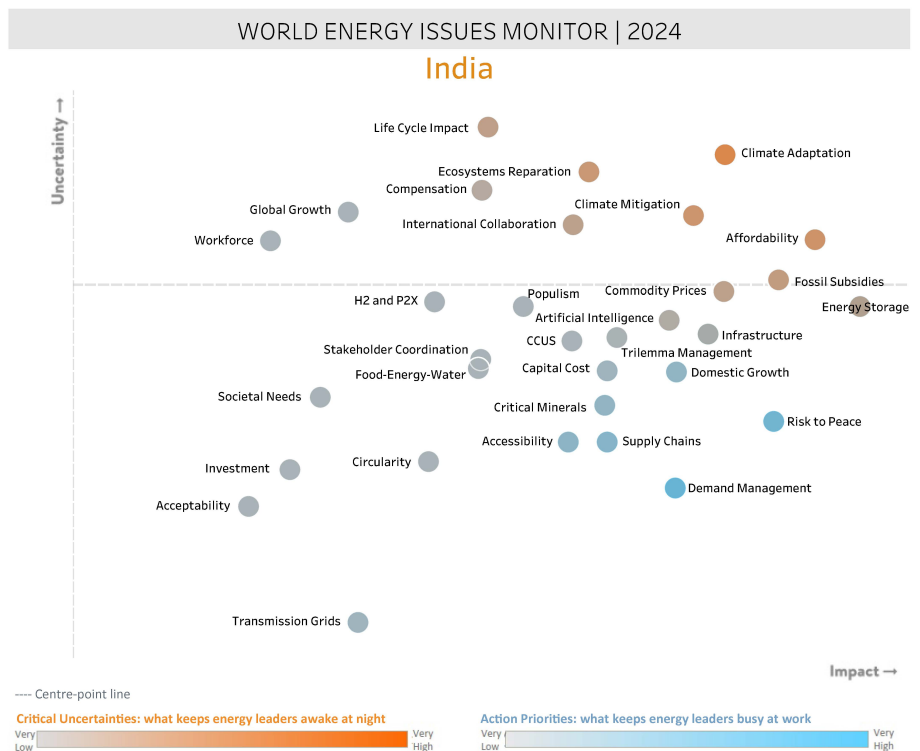
The emphasis on climate adaptation, mitigation, and reparations points to the necessity of robust policies and ecosystems that support transparent and transformational changes. The survey results reflect a demand for clear, actionable policies that address both mitigation and adaptation strategies. The action priorities focusing on **accessibility, supply chain management, and domestic growth** further highlight the need for comprehensive ecosystems that support these transitions.

Climate Risks & Resilience

The inclusion of **climate adaptation and mitigation** as key uncertainties highlights the growing awareness of climate risks and the need for resilience. By identifying these as critical areas, the results suggest that stakeholders are increasingly prioritizing strategies that not only reduce greenhouse gas emissions but also enhance the ability of communities and systems to withstand and recover from climate impacts.

Resource Allocation, Active Management & Money Flows

The focus on **climate reparations, affordability, and fossil fuel subsidies** indicates that financial resources need to be allocated in a manner that supports vulnerable populations and regions. Consistent priorities such as **renewable energy, energy efficiency, and domestic growth** suggest ongoing investment in sustainable technologies and infrastructure.



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