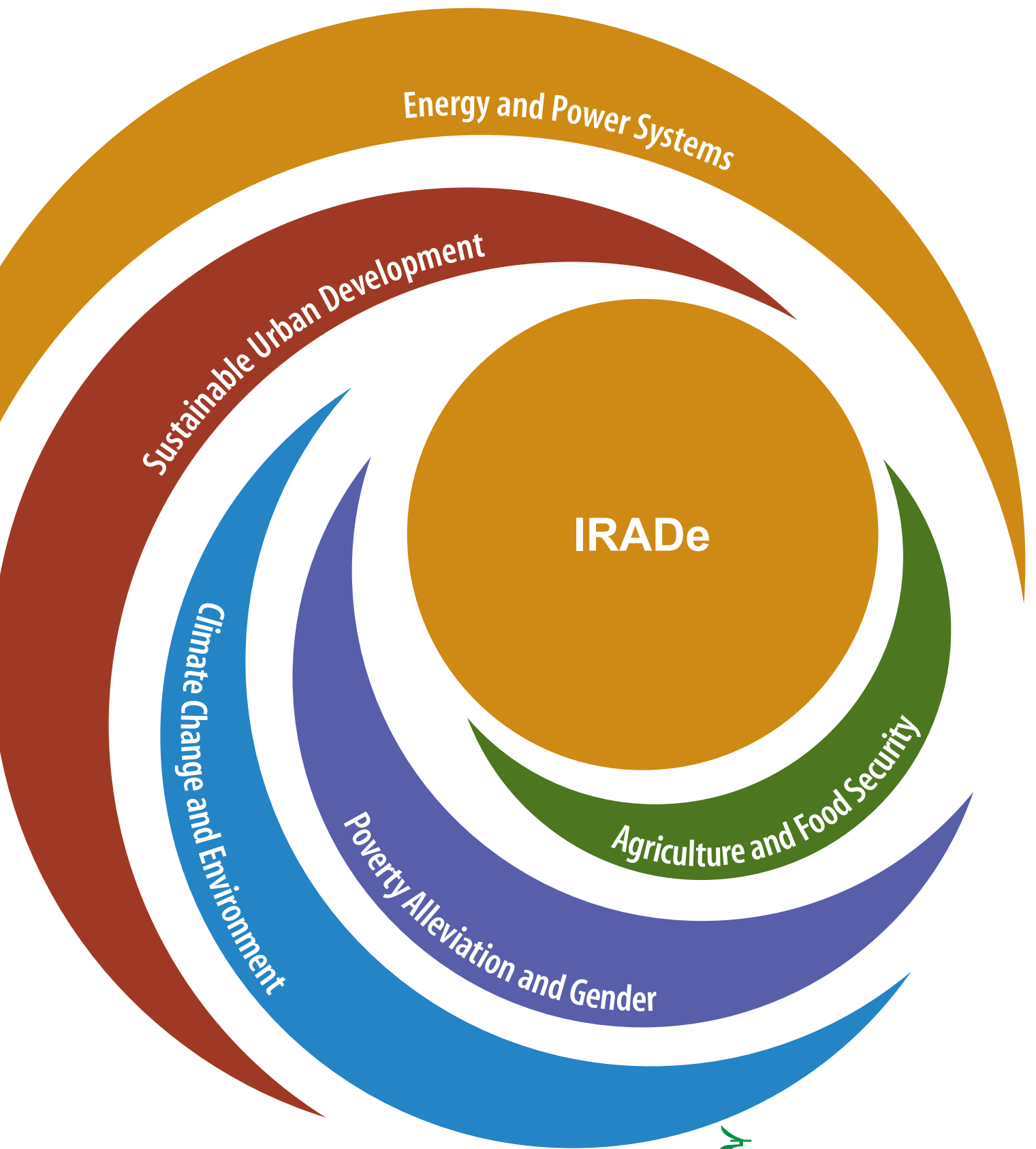


Integrated Research and Action for Development



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- Mr. Shirish Kumar, Consulting Civil Engineer
- Prof. Jyoti K. Parikh, PhD, Member Secretary, Energy, Environment and Climate Change



IRADe founding members (from left to right): Kirit Parikh, Shirish Patel, Manmohan Singh, Jyoti K. Parikh, R.A. Mashelkar and Adi Godrej



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IRADe is an independent advanced research institute which aims to conduct research and policy analysis to engage stakeholders such as government, non-governmental organizations, corporations, academic and financial institutions. Energy, climate change, urban development, poverty, gender equity, agriculture and food security are some of the challenges faced in the 21st century. Therefore, IRADe research covers these, as well as policies that affect them. IRADe's focus is effective action through multi-disciplinary and multi-stakeholder research to arrive at implementable solutions for sustainable development and policy research that accounts for the effective governance of techno-economic and socio-cultural issues. Based on research for effective action and implementation, IRADe is a 'think tank' that works with 'action tanks'.

IRADe was established under the Society's Act, in 2002 at New Delhi, India. It is certified as a Research & Development Organization by the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology (MoST). It has also been selected as a Centre of Excellence (CoE) by the Ministry of Urban Development (MoUD) for urban development and climate change. In addition, it provides expertise to other ministries, national and international institutions and partners with other reputed organizations.

Our Mission

To explore new opportunities and promote paradigm shifts to provide optimum solutions in sustainable development and help vulnerable groups in decision making process.

Our Vision

To be a leading independent policy research organization and a think tank that suggests implementable policies in energy, environment and climate change with a focus on poverty alleviation, gender equity and inclusive growth, using multi-disciplinary, multi-stakeholder framework which provides holistic solutions.

Objectives

- Integrate multi-disciplinary and multi-stakeholder perspectives concerning issues of development.
- Promote wider consensus, through research and analysis, on effective policies.
- Engage and work at local, district, state, national, South Asia regional and global levels.
- Provide research support to developing countries for development and for negotiation process for international agreements.
- Carry out policy research that accounts for the political economy of the society and effectiveness of governance.

Thematic Areas of IRADe

1. Energy and Power System
2. Sustainable Urban Development
3. Climate Change and Environment
4. Poverty Alleviation and Gender
5. Agriculture and Food Program

IRADe activities in the above areas have cross-cutting themes such as technology assessment and policy reforms. The key activities are:

1. Policy Dialogues and Dissemination
2. Training and Capacity Building
3. Research and Analysis for Decision Support
4. Research in Action, Monitoring and Evaluation Projects

Our Partners in Progress



Energy and Power Systems



Sustainable Urban Development



Climate Change and Environment



Poverty Alleviation and Gender



Agriculture and Food Security





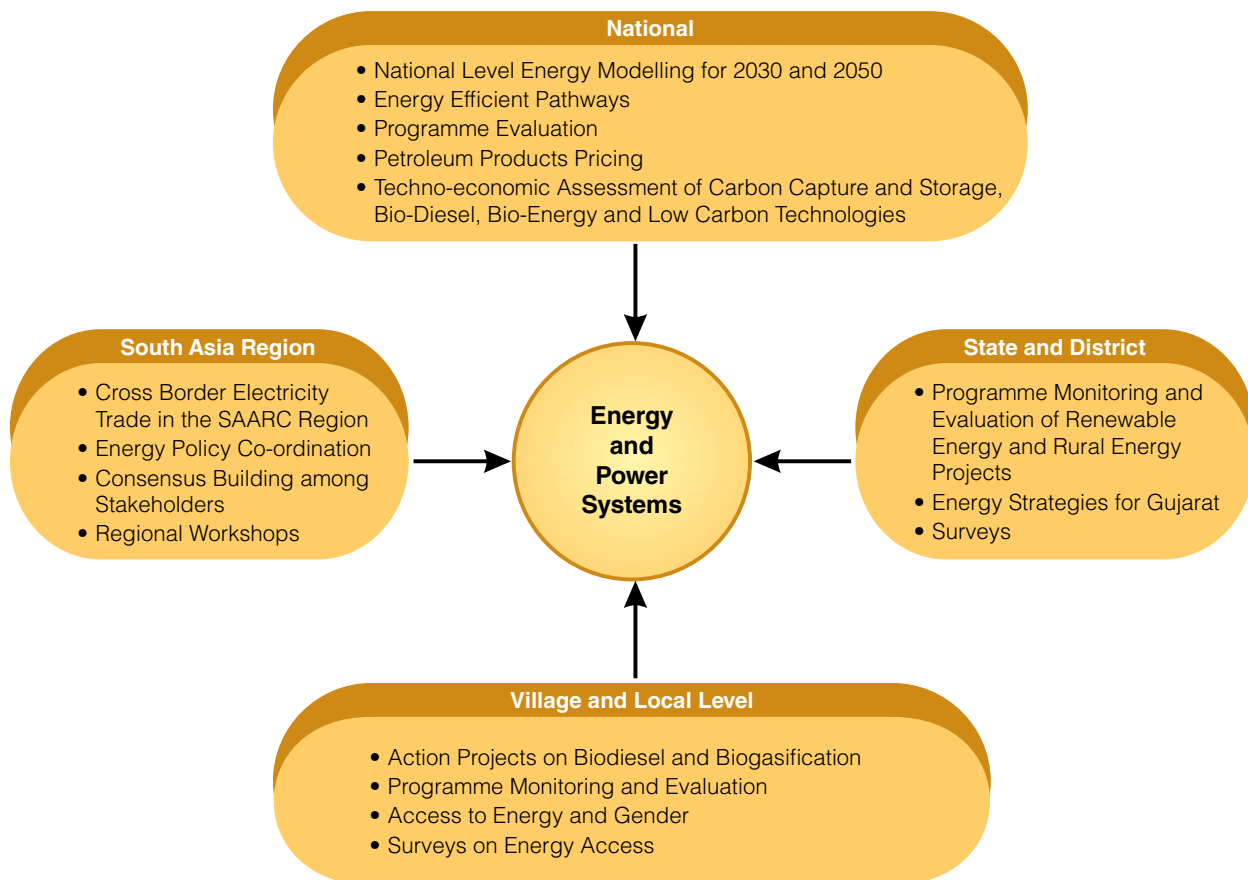
Energy and Power Systems



IRADe has a strong presence in energy policy studies in India. These include energy needs of India in the context of global energy scenarios, pricing policy and reforms, technology assessment, energy access, programme evaluation, role of renewable energy trade and long-term (2050) perspectives on energy.

The analytical research included understanding the changes in trends of energy production, consumption, imports and exports of petroleum fuels and their contribution to the overall energy mix in India. Technology assessment exercises carried out include carbon capture and storage, biodiesel, renewable technologies and star-rated appliances. Fuel demand and specific sectors that impact energy consumption and energy transition till 2030 and 2050 are studied.

South Asia Regional Power trade is now a major project with duration of five years supported by SARI/ USAID. Access to modern energy for poor, especially for women, is a major concern always reflected in IRADe research and has undertaken several projects involving surveys and analysis. Our policy analysis cover areas related to pricing of and access to energy and also technology perspective for long term. These also explore issues linked with poverty and gender as well as climate change.





Sustainable Urban Development



IRADe is designated as Centre of Excellence (CoE) in the area of urban development and climate change by Ministry of Urban Development (MoUD), GOI. IRADe also collaborates with national institutions, state urban departments, municipal corporations, urban local bodies, NGOs and academia for capacity building, promoting awareness, research and training on specific topics in the areas of urban development and climate change in more than 29 cities across 19 states.

As the CoE, IRADe is furthering the agenda of integrating various urban development efforts and documenting best practices and policy level prescriptions that could be understood and adopted by the state and national level decision makers and local administrations to help them link climate issues with the existing programmes in urban development. Presentations were made on project objectives, results, methodology and future strategy for climate resilience of India's cities to various forums such as organized by IPCC-SREX, European Union, UNESCAP and others.

Centre of Excellence Projects – 29 Cities and 19 States



Geographical Coverage

Project Cities

- | | |
|--------------|------------------------|
| 1. Srinagar | 16. Kolkata |
| 2. Shimla | 17. Bhubaneswar |
| 3. Haridwar | 18. Puri |
| 4. Dehradun | 19. Pune |
| 5. Delhi | 20. Mumbai |
| 6. Allahabad | 21. Hyderabad |
| 7. Gorakhpur | 22. Visakhapatnam |
| 8. Jodhpur | 23. Vijaywada |
| 9. Ahmedabad | 24. Chennai |
| 10. Surat | 25. Madurai |
| 11. Indore | 26. Bengaluru |
| 12. Bhopal | 27. Kochi |
| 13. Gangtok | 28. Thiruvananthapuram |
| 14. Shillong | 29. Puducherry |
| 15. Guwahati | |

Project States

- | | | | |
|---------------------|-------------------|-----------------|--------------------|
| 1. Jammu & Kashmir | 6. Rajasthan | 10. Sikkim | 15. Telangana |
| 2. Himachal Pradesh | 7. Gujarat | 11. Meghalaya | 16. Andhra Pradesh |
| 3. Uttarakhand | 8. Madhya Pradesh | 12. Assam | 17. Karnataka |
| 4. Delhi | 9. West Bengal | 13. Odisha | 18. Tamil Nadu |
| 5. Uttar Pradesh | | 14. Maharashtra | 19. Kerala |



Climate Change and Environment

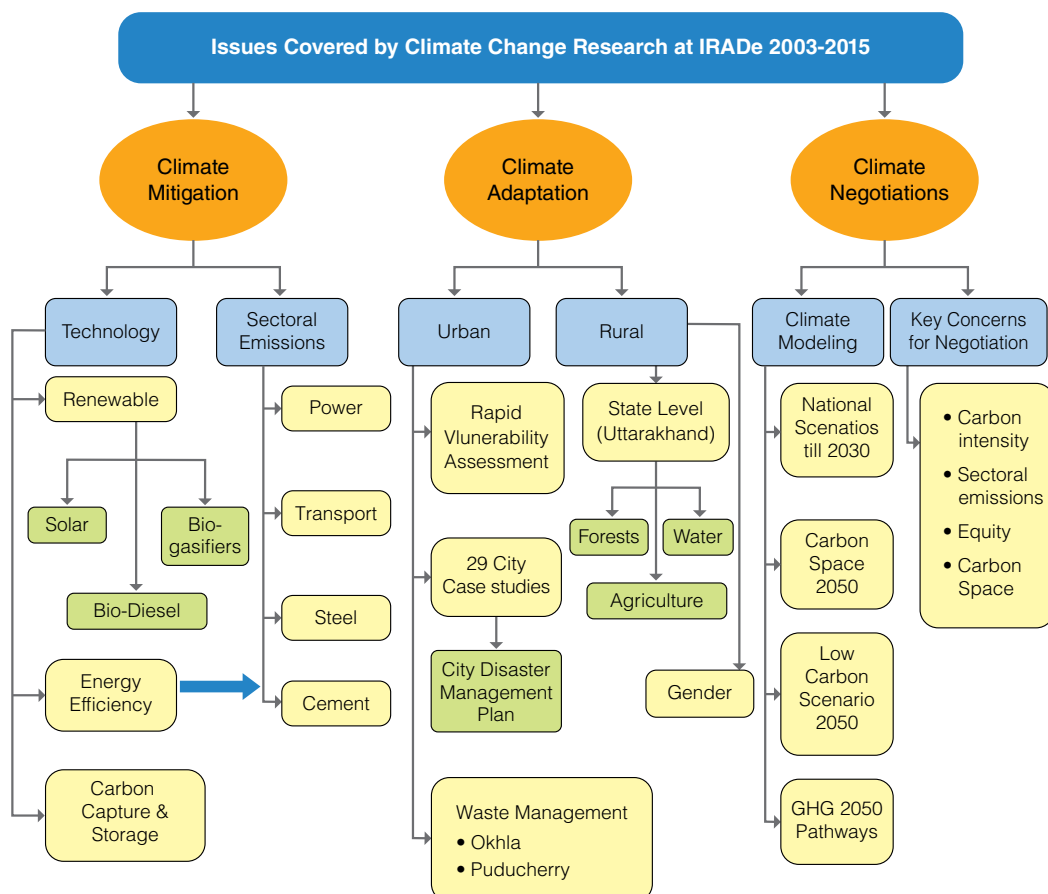


Local and global environmental issues, especially climate change, loom large with increasing risks. They need complex multi-disciplinary approach requiring new techniques as well as understanding of many sectors, technologies and issues in climate negotiation as well as national communication process. IRADe recognizes and initiates projects for both climate mitigation and adaptation and has completed numerous projects across the country followed by a few more that are aligned with national interests and contributions.

In climate change, IRADe covers climate mitigation, adaptation and negotiations. IRADe covers mitigation technologies, especially renewable and carbon capture and storage and biomass. In climate adaptation, state level strategies for Himachal Pradesh and Uttaranchal are analyzed. Further, as mitigation efforts, IRADe developed an Economy wide Model for low carbon strategy analyzing scenarios suitable for the Indian economy assessing emissions profiles in 2030 and 2050.

IRADe plays an active role in climate negotiations and provides inputs using the activity analysis model for Climate Policies in India. IRADe is a member of NATCOM institutions and INCCA (Indian Climate Change Association) assisting in country reports and provides input on negotiating positions, arguments and policy suggestions to ensure equity principles.

IRADe's environment project portfolios include environmental accounting and valuation for Goa and Andhra Pradesh with a focus on tourism, waste management and water pollution. Biodiversity and Ecosystem management for Marine national Parks is also addressed.

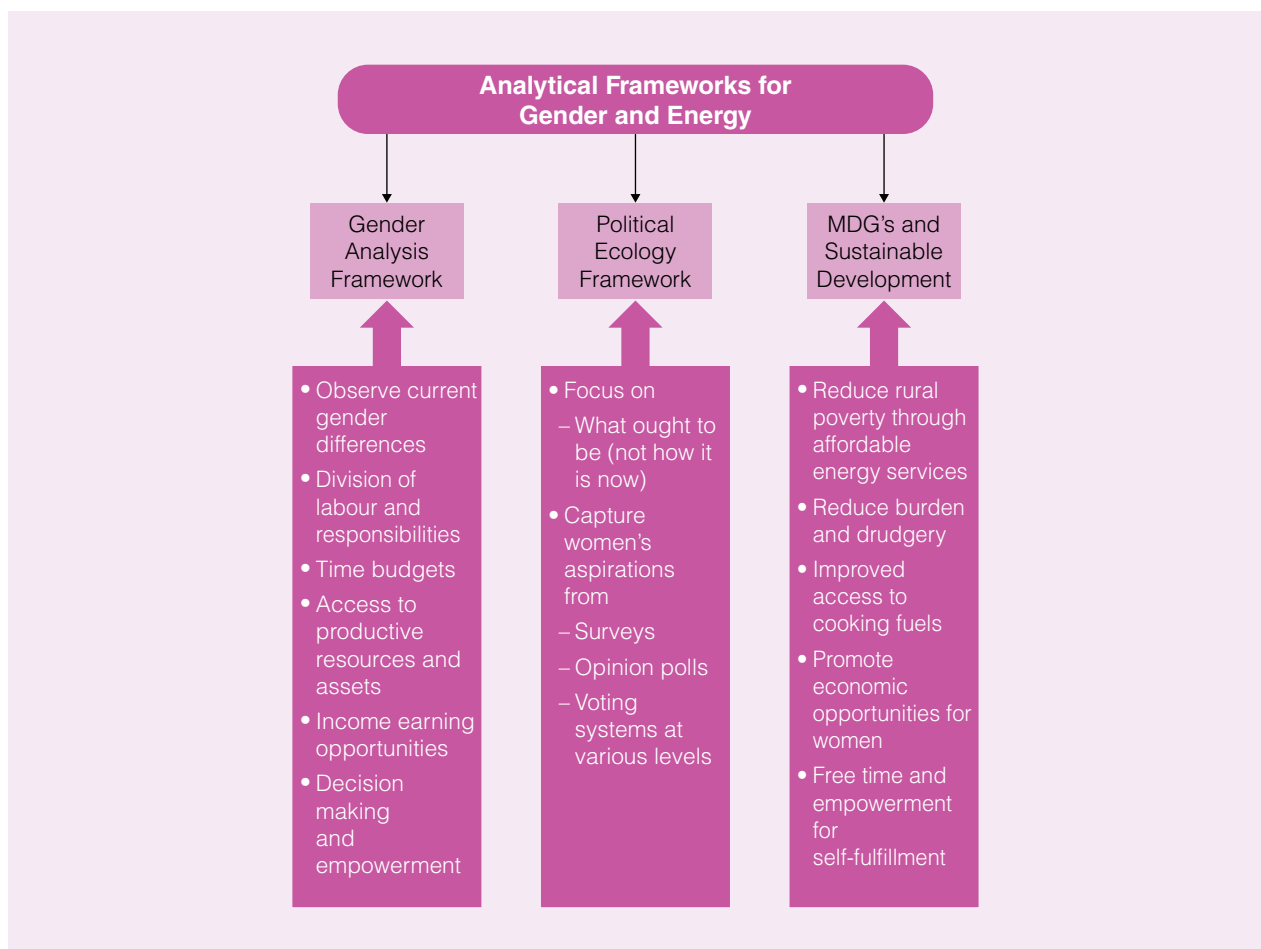




Poverty Alleviation and Gender



In order to address poverty issues in all the other 4 thematic areas, to enhance capabilities of women and to ensure increased participation of women in decision making, IRADe focuses on the poor, especially women, while discussing energy, environment, climate change, cities or agriculture. In the energy sector, IRADe is advocating that more attention should be given to the non-commercial energy sector (fuel-wood) managed by women, providing 27 per cent of national energy. Currently, sustainable energy for all (SE 4 All) is some of the high profile initiatives of the UN and others. In the last few years, IRADe has undertaken various research studies in this sector to address this burning issue and organized several workshops and conferences.



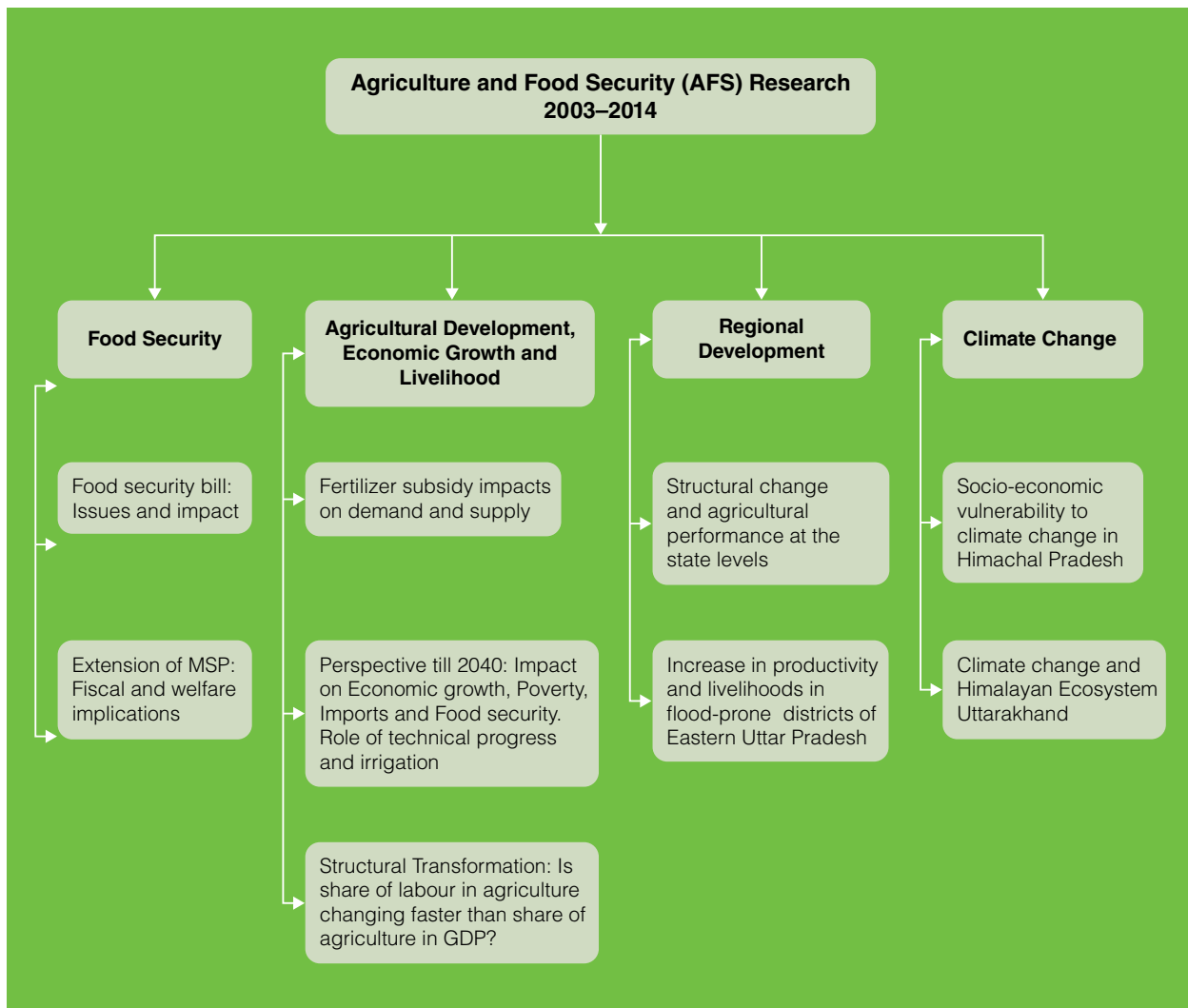


Agriculture and Food Security



Food security issues now should also include climate change. To enhance food security, IRADe focuses on yield growth in agriculture, a rational development strategy for handling the issues of excess labour in agriculture sector, management of arable land in India, institutional approach for collective action and rational use of irrigation water etc. The domestic self-sufficiency ratio for food security needs to be optimized. IRADe has worked on the following projects related to the field of agriculture and food security.

IRADe has developed a general equilibrium model to explore the Indian agriculture over the next 30 years that will have profound implications for diversification for rural urban migration, for agricultural profitability and food security. In the past IRADe has conducted a study that entails estimation of demand for Natural Gas in the Indian Fertilizer Industry and analyze the fertilizer demand, to access the impact of various feedstock prices, to estimate the total subsidy for the fertilizer sector, to suggest range of policy alternatives, to recommend viable policy and reform options for policy-makers for India.



IRADe's outreach and partners

IRADe networks with the government, ministries/ departments, international organizations, public and private sectors, academic experts, NGOs, and consultants to work on projects awarded by them. The ministries include Ministry of Environment and Forests and Climate Change, Ministry of New and Renewable Energy, Niti Aayog (formerly Planning Commission), Ministry of Power, Ministry of External Affairs, Ministry of Earth Sciences, Ministry of Urban Development, Department of Science and Technology, Central Statistical Organization under Ministry of Statistics and Programme Implementation, Technology Information, Forecasting and Assessment Council (TIFAC), etc. for many national level projects.

At the international level, IRADe has worked with multilateral organization like the World Bank, Asian Development Bank (ADB), U.S. Agency for International Development (USAID); United Nations Development Programme (UNDP); Stanford University, California and United States Environmental Protection Agency (USEPA), Wuppertal Institute for Climate, Environment and Energy (WISION) Germany; Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Germany; Rockefeller Foundation; British High Commission; International Institute for Applied Systems Analysis (IIASA), Austria; British High Commission (BHC), Centre for Clean Air Policy (CCAP), USA; International Institute for Sustainable Development (IISD), South South North Trust (SSNT) etc.

IRADe has collaborated with private sector and multinational organizations and NGOs such as Shakti Foundation, Indian Council of Social Science Research (ICSSR), SEWA, Petroleum Federation of India, Pricewater House Coopers, ICF International, Rockefeller Foundation, Institute for Social and Environmental Transition (ISET), Center for Clean Air Policy (CCAP), Indian Council for Research on International Economic Relations (ICRIER), InsPIRE Network for Environment, NATCOM and Sir Dorabji Tata Trust (SDTT) among others.

IRADe has also developed strategic partnerships and is part of global networks like the USAID's Low Emissions Asian Development (LEAD) program – ASIA-LEDS, ENERGIA-International Network for Gender and Sustainable Energy, Netherlands; Global Clean Cook Stoves Forum, UN Foundation; Asian Cities Climate Change Resilience Network (ACCCRN), Global Technology Watch Group (GTWG-DST), Climate Action Network South Asia (CANSAs).

IRADe has carried out some pioneering work in the field of state level energy planning, city level climate resilience planning, other climate change studies and livelihood studies in agriculturally vulnerable flood prone areas.



Our Partners in Progress

