

**Workshop on**

# **“Role of Solar Photovoltaic (PV) Technology in Promoting Quality School Education in Jharkhand”**

**Tuesday, March 28<sup>th</sup> 2023, 10:00 AM – 2:00 PM**

**Venue: Senate Hall, Hotel Capitol Hill, Ranchi, Jharkhand**

**The main objective of the study :**

- To develop business models to help in scaling up the adoption of DRE in primary, secondary, and senior secondary government-managed schools;
- To develop a modular set of procurement specifications to be utilized by schools or the state procurement agency;



**Organised by :**

**Integrated Research and Action for Development  
C-80, Shivalik , Malviya Nagar Delhi  
[www.irade.org](http://www.irade.org)**



# Workshop on Role of Solar Photovoltaic (PV) Technology in Promoting Quality School Education in Jharkhand

## Background

Access to electricity at schools can facilitate multiple ICT technologies, including televisions, computers, and the internet, audiotapes, projectors, printers, and copy machines. Basic infrastructure like electricity and separate toilets for girls and boys in schools create a healthy and positive environment. Access to reliable electricity is an identified issue, and lack of it may lead to inferior educational outcomes and even drop-outs. To accelerate the use of technology in education, there has to be a dedicated effort to enhance school quality electrification. Globally it has been observed that schools with electricity outperform non-electrified schools in terms of staff retention, drop-outs, and other important educational indicators. Economic Survey highlights that states in India with lower literacy rates also have low electricity rates at the schools and vice-versa.

In this backdrop, Integrated Research and Action for Development (IRADe) carried out a study that involves a baseline survey of available infrastructures in selected 45 government schools and a perception survey of 135 teachers from these schools spread across three districts Ranchi, Hazaribagh, and Deoghar. The broad objective of the study is to:

- Understand the importance of energy access for improvement in the quality of school education in Jharkhand government schools
- Understand the role of off-grid solar (DRE) in upgrading rural lives through better education service delivery
- Discuss viable Business models to scale up the adoption of DRE in primary, secondary, and senior secondary government schools;
- Understand the role of policies and government action in energy access.

Renewable energy technologies are known to provide access to a cost-effective, secure, and sustainable supply of energy and can have substantial spill-over effects in the education sector. Solar is a climate-friendly renewable energy system and has been around in India for more than four decades. It was only in the early part of this decade that the technology became affordable, with a sharp decline in the prices of solar panels. Several states are promoting the deployment of solar systems in India. Solar technologies can meet a vast range of electrical requirements for several community services, including schools. A systematic approach is needed to engage the government with sector players- like developers, NGOs, and researchers -to constructively mainstream solar technology for community services.

IRADe is pleased to announce to host a workshop on **“Role of Solar Photovoltaic (PV) Technology in Promoting Quality School Education in Jharkhand”**. The workshop will focus on advancing understanding of the roles of DRE in facilitating qualitative improvement in education service delivery, especially in Jharkhand government schools.

The workshop will bring together around 50-60 experts from leading national academia, international development organizations, regional policymakers and practitioners, and civil society, as well as representatives from the private and public sectors, to deliberate relevant issues and create a space for dialogue to meaningfully deploy solar for addressing energy challenges faced by schools to support in improving quality of education delivery in government schools of Jharkhand.

# Workshop: Role of Solar Photovoltaic (PV) Technology in Promoting Quality School Education in Jharkhand

Venue: Senate Hall, Hotel Capitol Hill, Ranchi, Jharkhand

Date: March 28<sup>th</sup>, 2023, Tuesday (10:00– 14.00 IST)

9:45-10:00 IST	Registration	
10:00-11:00 IST	Session I – Inaugural Session	
	Welcome Address	Dr Jyoti Parikh, Executive Director, IRADe
	Inaugural Address	Smt. Joba Majhi Hon'ble Minister Department of Women, Child Development & Social Security, Government of Jharkhand*
	Key Note Speaker	Smt Kiran Kumari Pasi, I.A.S., State Project Director, Jharkhand Education Project Council, Government of Jharkhand*
	Special Address	Shri K. K. Verma, Director, Jharkhand Renewable Energy Development Agency
	Special Address	Shri Deepak Kumar Srivastava, Director, IIM Ranchi
11:15 -11:30 IST	Tea Break	
11:30-12:30 IST	Session II- Role of DRE technologies in improving quality of school education	
	A Context Setting Presentation by Dr. Chandrashekhar Singh, Senior Research Analyst, IRADe	
	Session Chair: Dr. Kirit Parikh, Former Member Planning Commission	
	<b>Panelist:</b> <ul style="list-style-type: none"> <li>Dr. S.K. Samdarshi, Professor, Central University of Jharkhand</li> <li>Mr. Amit Kumar, Senior Program Associate, WRI India</li> <li>Dr. Bhaskar Singh, Associate Professor, Central University of Jharkhand</li> <li>Mr. Ashwani Ashok, Head-Clean Energy, Centre for Environment and Energy Development (CEED)</li> </ul> <p>Chair and Panelist remarks followed by open discussion</p>	
12:30: 13:15 IST	Session III- Industry experience and way forward	
	Session Chair: Shri Atul Kumar, Member (Technical), Jharkhand State Electricity Regulatory Commission	
	<b>Panelist:</b> <ul style="list-style-type: none"> <li>Mr. Vijay Shankar Bhardwaj, CEO, Climatex</li> <li>Mr. Debanjan Ghatak, Program Manager, PRADAN</li> <li>Mr. Aklavya Sharan, Director, DECENTRALISED ENERGY SYSTEMS (I) PVT. LTD. (DESI Power)</li> </ul> <p>Chair and Panelist remarks followed by open discussion</p>	
13:00-14:00	Lunch Break & Networking	

TBC\*

## About Integrated Research and Action for Development (IRADe)

Integrated Research and Action for Development (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. Being Asia Center for Sustainable Development, we have been carrying out policy research and its implementation for enabling socio-economic growth and charting pathways for sustainable development in South-Asia.

IRADe was established under the Society's Act, in 2002 at New Delhi. It is certified as a Research and Development Organization by the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology (MoST). It has also been selected as a Center of Excellence 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.

### Integrated Research and Action for Development (IRADe)

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