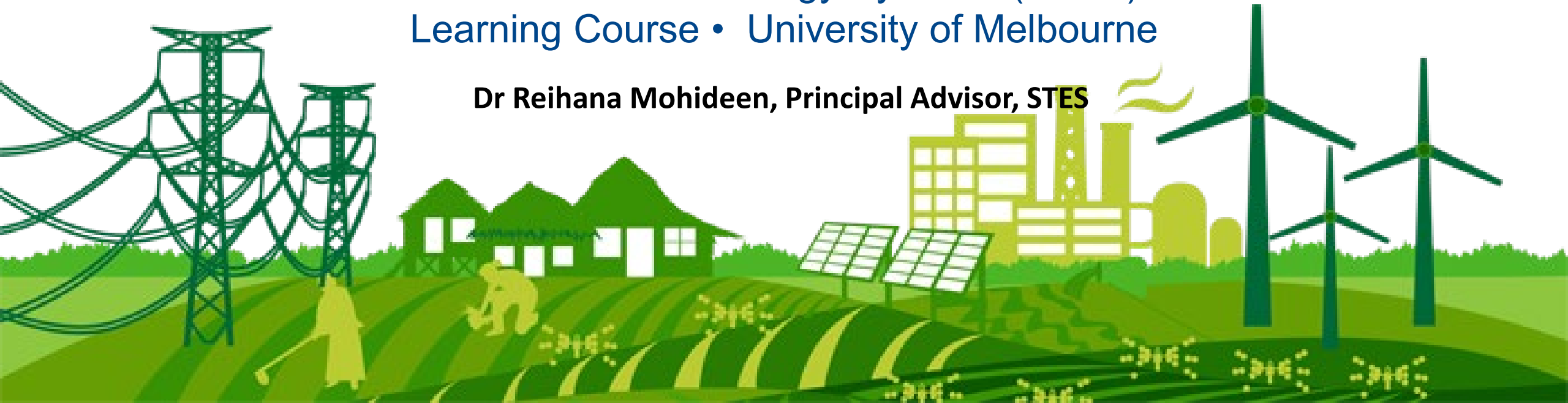


SOUTH ASIA SUBREGIONAL WORKSHOPS

INCLUSIVE CLEAN ENERGY TRANSITIONS

Socio-Technical Energy Systems (STES)
Learning Course • University of Melbourne

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Background

Over the past decade, the University of Melbourne, in partnership with ADB, has delivered a series of learning programs focused on **inclusive energy transitions** across South Asia. This evolving program has combined **technical innovation**, **social inclusion**, and **participatory learning** to support practitioners, policymakers, CSO, and community leaders.

Key Milestones (2016–2024):

-  **2016:** *Deep Dive Lateral Learning Program on Inclusive Energy Solutions*
-  **2017:** *Second Lateral Learning Program – Smart Grid Technologies & GESI in India*
-  **2017:** *Inclusive Energy Solutions for India: Smart Grid Technologies and Implications for Inclusive Development*
-  **2018:** *Sri Lanka Program – Smart Grids and Inclusive Development*
-  **2019:** *Bangladesh Conference – Community Energy Resilience*
-  **2019:** *Third Lateral Learning Program – Smarter, Inclusive Energy Solutions*
-  **2024:** *India National Conference – Inclusive Energy Solutions in ADB Operations*
-  **2024:** *Regional Conference – Inclusive Energy Transitions in South Asia and Beyond*

The Need

“There is a need address socio-technical problems in relation to gender equality and social inclusion in power and energy projects and operations, to advance diversity in the Engineering technical profession, and to promote an inclusive and equitable culture within industry and society that welcomes gender equality and social inclusion with respect to public access of essential services such as electrical power.” (IEEE SA P3564)



There is a specific need to:

- Integrate **just and inclusive energy transition principles** into national and regional energy plans
- Equip practitioners with **practical tools and cross-sector knowledge** to respond to socio-technical challenges
- Bridge gaps between **policy, community needs, and technological innovation**



Who this course is for:

- Government staff (e.g. energy, planning, utilities)
- MDB staff
- CSO-NGO, non-profit, and civil society professionals
- Academics, researchers, and technical experts
- *PhD students and early-career professionals*

The Course: A Participatory and Practice-Based Learning Model

This course focuses on identifying and framing **Socio-Technical** approaches as essential to solving the complex challenges of inclusive clean energy transitions.

Core Approaches



Peer Learning - Sharing of ideas, experiences, and lessons from practice



Reflection - Reflection on how to sustain learning beyond the course



Practical Tools - Emphasis on usable strategies drawn from real-world applications and Case Studies



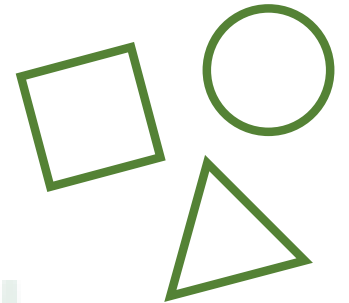
Lived Experience - Listening to lived experiences — both positive and challenging



Cross-Sector Exchange - Cross-disciplinary and cross-context peer exchange

By the end of the course, participants will be able to:

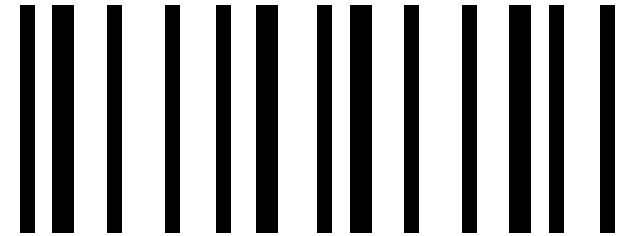
1. Understand policy, institutional, and regulatory frameworks that support inclusive clean energy transitions
2. Analyse the technological, economic, and social dimensions of emerging energy systems
3. Apply socio-technical and GESI lenses to real-world energy transition challenges
4. Use participatory and peer learning methods to co-design inclusive energy interventions



1 Week Course Structure: Core Learning Modules

Day	Theme	Focus Areas
Day 1	 Policy Innovation & Institutional Aspects	National/regional policy, planning, regulatory standards, inclusive governance
Day 2	 Techno-Economic & Social Challenges	Smart grids, distributed energy, affordability, emerging technology & digital tools
Day 3	 Social Implications & Workforce Development	Education, reskilling, local governance, social protection
Day 4	 Designing Inclusive Solutions & Peer Learning	Community engagement, GESI metrics, stakeholder co-design, contextual adaptation
Day 5	 Field Visit & Capstone	Site visit, stakeholder Q&A, group reflection, final presentations

- Interactive lectures
- Good practice case studies
- Field trips to sites for observation of good practice
- Panel discussions with experts from the field
- Problem-solving with working groups including experts from the field
- *Presentations of innovative PhD research on emerging areas*



Certification

Participants who complete the course will receive a **Certificate of Completion**.

The certificate will recognise that the participant has demonstrated core competencies in inclusive clean energy transitions, including:

- Understanding Socio-Technical dimensions of energy systems
- Applying Socio-Technical and GESI principles in policy and program design
- Analysing and addressing barriers to equitable energy access
- Co-designing context-specific, integrated and inclusive energy interventions



THANK YOU

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