

DR. MUKESH GHIMIRE

(PhD, M.Sc. Eng, EMBA, BE. Eng)

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<https://www.linkedin.com/in/ghimirem>; Google Scholar: <https://scholar.google.com/citations?hl=en&user=iJT5jScAAAAJ>

Identity: Energy & Climate Professional and Researcher

Academic qualification: **PhD** in Energy, Resource and Environmental Policy (Korea University; 2024)
Master's in Business Administration (Executive) (Pokhara University, Ace Institute of Management, 2018)
Master's in Rural Development (Tribhuvan University, 2015)
Master's in Renewable Energy Engineering (Tribhuvan University, Institute of Engineering, Pulchowk Campus, Gold Medalist; 2010)
Bachelor's in Agricultural Engineering (Tribhuvan University, Institute of Engineering, Purwanchal Campus, Gold Medalist; 2008)

Work Experience: **16 years** professional experiences in renewable energy, energy efficiency and climate & carbon financing sectors (particularly in managing the multilateral and bilateral development partners' financed projects);
Researcher in the field of Energy & Environmental Economics, New Energy Materials, Climate Change and Policy

Current Association:

Director & Coordinator for New Project Development, Alternative Energy Promotion Centre (AEPC), Ministry of Energy, Water Resources and Irrigation, Government of Nepal (AEPC is a government apex institution promoting the country's renewable energy, energy efficiency and climate finance in energy sector).

Project Director, Private Sector Led Minigrid Energy Access Program (MGEAP) supported by The World Bank & Scaling Up Renewable Energy Program (SREP)

Researcher, Energy Policy & Innovation Strategy Lab, Graduate School of Energy & Environment, Korea University

Past Association:

Project Management Side:

Project Manager, South Asia Sub-Regional Economic Cooperation (SASEC) – Power System Expansion Project, Off-grid Renewable Energy Component supported by The Asian Development Bank (2024 Aug-2025 Feb)

Project Focal Person, Renewable Energy for Rural Livelihood (RERL) supported by the United Nations Development Program (UNDP) and Asian Development Bank (ADB) (2024 Aug-2025 Feb)

Project Manager, Scaling Up Renewable Energy Programme (SREP) supported by The World Bank & Climate Investment Fund (2019 August-2021 July)

Project Focal Point, Nepal Renewable Energy Program (NREP) supported by UK Aid (2020 June-2021 July)

Program Manager, Solar Energy Sub-Component; Monitoring & Quality Assurance Sub-Component; Institutional Development Sub-Component; Nepal Rural and Renewable Energy Program (NRREP) supported by multiple development partners and government under single program modality, Key partners: Government of Nepal, DANIDA, NORAD, ADB, WB, KfW, GIZ, UKAid, UNDP, UNCDF, UNESCAP, SNV (2012 July-2017 June)

Project Focal Officer, Pro Poor Public Private Partnership (5P) supported by UNESCAP (2012 August-2014 June)

Government Side:**Deputy Director** (2024 Feb-2025 April)**Assistant Director** (2020 June-2024 Feb)**Senior Officer (Technical)** (2015 June-2020 June)**Energy Officer/ Engineer** (2011 April-2015 June)**Key Responsibilities on Government Side:**

Head, Climate and Carbon Section; **Head**, Bio-Energy Section; **Head**, Energy Efficiency Section (2018-2019); **Head**, Policy, Planning & Institutional and capacity Development Section (2016-2018); **Head**, Integrated Subsidy Processing Unit; **Head**, Solar Energy Section; **Head**, Monitoring and Quality Assurance Unit; **Energy Officer/Engineer** at Solar Energy Section

Lecturer, Institute of Engineering/Pulchowk Campus and other Engineering Colleges (2008 September-2010 June)

Technical Officer and Researcher, Nepal Academy of Science and Technology (2010 July-2011 April)

Specialized sectors:

Renewable Energy, Project Planning & Management, Public Private Partnerships, Energy Policy, Energy Economics, Climate Financing, Result based management, Life Cycle Assessment, Waste Management, Waste to Energy, Hydrogen, New Energy materials

Skills:

Renewable Energy (RE) Policy Analysis, Economic & Financial Evaluation of Projects, RE Project Formulation & Implementation, Energy Modelling, M&E system design, Project Management, Report writing, MIS, MS-Powerpoint

Software Applications (R, LEAP Energy Modelling, openLCA, GIS, WAsP, Primavera, MS PRO, Autocad, RETSCREEN, MS Applications, End Note, Turnitin)

Research and Publications:

Involved in different researches in international and national level in the areas of Energy Policy, Energy Economics, Environmental Management, Climate Finance.

Key Publications:**Books:**

First Author, GREEN HYDROGEN STRATEGIES County Case Studies for A Sustainable Energy Future; Chapter 1: Green Hydrogen Policy and Strategies of Nepal, 2025 (under publication)

Regional Contributor & Topical Lead, Renewables Global Status Report on 2014, 2015 & 2016: REN 21, Renewable Energy Network for the 21st Century: Published as a global report

Editor, Training Manual For Engineers on Solar PV System, 2011

International Journals:

1. **First Author**, Accounting socio-economic benefits of household biogas towards net zero energy transition in developing countries: A case study of Nepal; *Energy for Sustainable Development* 85, 101634
2. **First Author**, Assessing determinants and readiness for willingness-to-pay (WTP) for unit-based pay-as-you-throw (PAYT) waste tariff structures: A case study of Kathmandu, Nepal; *Waste Management* 190, 227-235
3. **First Author**, Assessing stakeholders' risk perception in public-private partnerships for waste-to-energy projects: A case study of Nepal; *Energy for Sustainable Development* 79, 101414
4. **First Author**, Anaerobic digestion (AD) based waste management in Nepal: Technologies and implementation modalities; *The Journal of Solid Waste Technology and Management* 49 (1), 73-90
5. **First Author**, Minireview on Environmental Economic Theories and Models for Decision Making on Sustainable Solid Waste Management; *Nepal Engineering Association Convention Journal*, 2024
6. **Co-Author**, Recent progress on MXene-hematite nanocomposite catalyst for water-splitting applications: Synthesis strategies, synergetic performance, and future perspectives; *Fuel* 404, 136248

7. **Co-Author**, Synthesis of porous MXene for efficient bifunctional electrocatalysis in overall water splitting: Hydrogen and oxygen evolution reactions; *FlatChem* 50, 100837
8. **Co-Author**, Value addition of MXenes as photo-/electrocatalysts in water splitting for sustainable hydrogen production; *Chemical Communications* 60 (67), 8789-8805

National Newspaper & Online Articles

Op-Ed Columnist Writer for the *Reuplica Daily* (In association with New York Times, International Edition; <https://myrepublica.nagariknetwork.com>)

Regular Writer, *Urja Khabar* (Nepal's First Energy Based News Portal; <https://www.urjakhabar.com>)

Regular Writer, *New Spotlight News Magazine* (<https://www.spotlightnepal.com>)

+ many more national articles both in English and Nepali Language

Language proficiency: **Fluent** in English, Nepali and Hindi; **Basic** in Korean

Nationality: Nepalese

Character Strengths (VIA tool): Hardworking, Creativity, Fairness, Curiosity and Extrovert.