

Bhavin Pradhan

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INTERESTS

Energy Policy & Economics, Energy Justice, Climate Policy, Social Welfare Economics, Electric Mobility, Renewable Energy, Supervised Learning, Statistical Analysis, Sustainable Development

EDUCATION

University of Minnesota- Twin Cities | Hubert H. Humphrey School of Public Affairs, USA (expected 2023)

Ph.D. | *Public Affairs*

Specialization: *Energy Policy and Economics, Econometrics, Statistical Inference, Data Analytics*

Advisor: [Dr. Gabe Chan](#)

Asian Institute of Technology (AIT), Thailand (2018)

M.Eng | *Energy Policy, Planning, and Economics*

Thesis: *Implications of Electric Mobility for Kathmandu Valley on Energy Demand, Greenhouse Gas Emissions and Analysis of Barriers*

Advisor: [Prof. Shobhakar Dhakal](#)

Tribhuvan University | Kathmandu Engineering College, Nepal (2015)

B.E. | *Electrical Engineering*

Subfields: *Power Systems Engineering, Renewable Energy, Micro-Grid Systems*

Advisor: Prof. Indra Man Tamrakar

WORK EXPERIENCE

1. Hubert H. Humphrey School of Public Affairs | University of Minnesota | Minneapolis, USA

August 2018- Present

Position: **Graduate Research Assistant** | [Chan Lab](#)

- Lead research efforts, in collaboration with the Minnesota Department of Commerce (MN DOC) and Minnesota Community Action Partnerships (MinnCAP) to create machine learning-based predictive and geo-spatial models analyzing energy assistance programs in Minnesota.
- Conduct statistical analysis, extensive literature review, and interview stakeholders to understand ways to lower energy burden and energy poverty through community solar projects for low-income communities.
- Conduct energy policy analysis on issues related to energy justice, climate policy, and environmental economics; develop methods to analyze factors affecting energy services.
- Develop analytical frameworks, tools, and analyses to inform and prioritize city sustainability and energy policy.

2. Global Green Growth Institute (GGGI) | Kathmandu, Nepal

August 2021- Present

May 2019- August 2019

Position: **Transport and Mobility Consultant**

- **2nd Consulting Assignment (2021):**
 - Assessing the viability of city routes (major urban cities such as Bharatpur, Hetauda, and Kathmandu) in, as well as inter-city routes within Bagmati Province for the operation of electric buses.
 - Assessing the viability of charging station installation at key points along the city routes and inter-city routes, and reviewing market conditions and vehicle and charging station specifications;
 - Assessing the viability of the different models proposed for vehicles and charging stations within the Bagmati Province, with different scenarios; and recommending the most suitable model for PTOMB.
- **1st Consulting Assignment (2019):**
 - Prepared a sub-national 'Electric Mobility Strategy for Province 3 Government, Nepal' laying out projects, policy, regulation, systems, and investments required to shift to electric mobility.
 - Created a transport-economic-emission quantitative model analyzing various pathways by which the nominated sub-national jurisdiction can shift its transport and associated systems to electric.
 - Lead survey design and expert elicitations on barriers to electric mobility in Province 3- Nepal.

3. Energising Development (EnDev) | Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH | Kathmandu, Nepal

May 2015 – July 2016

Positions: **Junior Programme Officer (M&E officer)**

- Responsible for overall monitoring of EnDev components as the monitoring advisor.
- Develop monitoring & evaluation framework and guidelines for different project components.
- Assist the Chief Technical Advisor in implementing the Community Rural Electrification, Micro-Hydro Debt Fund and Improved Water Mill Electrification components.

- Support knowledge management, documentation, data collection, and analysis process.

April 2014 – April 2015

Position: **Consultant (M&E Consultant); Intern**

- Create an evaluation framework and structure for systematic monitoring of EnDev project components.
- Process monitoring data, ensure quality assurance, and timely implementation of all the EnDev components.
- Conduct verification visits with partner organizations.

TRAINING

Code of Conduct – GIZ

Risk Management using Safe & Effective Development – DFID/GIZ

Results-Based Monitoring (RBM) – AIT Extension, Thailand

Intersections: Preventing Harassment & Sexual Violence – the University of Minnesota (online)

SKILLS

Programming: C, C++, Python, Matlab

Statistical Packages: R, Stata

Markup/Viz: LATEX, Markdown, Pandoc, Shiny

Geo-spatial: ArcGIS, R Mapping, Python Spatial Stack

Climate/Energy Modeling Packages: LEAP, DICE, AIM

Languages: Nepali, English, Hindi

AFFILIATIONS

- International Association of Energy Economics
- US Association of Energy Economics
- Association for Public Policy Analysis & Management
- Nepal Engineering Association
- Nepal Engineering Council

HONORS

- Nepal Vidya Bhushan – Kha (Nepal Presidential Award for Academic Excellence at Master's Level)
- Asian Institute of Technology (AIT) – Valedictorian for Class of May 2018.
- The Asian Institute of Technology Alumni Association Prize for Securing Highest GPA in the School of Environment, Resources and Development (SERD), AIT.
- The Yoshiro Takasaki Award for securing the highest GPA in the Energy Program, SERD, AIT.

PUBLICATIONS

- Published (Non-Academic)
 - **Pradhan, B.**; Krause, L; Chomilo, N; Kaasan Stull, D. (2020). Planning for Land Use & Economic Development Post-COVID-19. Resilient Communities Project (RCP), University of Minnesota. Retrieved from the University of Minnesota Digital Conservancy, <https://hdl.handle.net/11299/218993>. ([Link](#))
 - **Pradhan, B.** 2019. Interconnecting Renewable Energy Plants to the Grid. *Nepal Economic Forum- Nepfort- Renewable Energy Special- Issue 38*. ([Link](#))
- Working Papers
 - Chan, G., Grimley, M., Stumo-Langer, N., Little, K., **Pradhan, B.**, Reinert, J., Plamer, L. 2021. Equitable Community Solar in Minnesota: Assembling, Operating, and Enacting Equitable Community Solar. University of Minnesota Press. *Forthcoming*
 - Chan, G., **Pradhan, B.**, 2021. Energy Justice in the United States: An Emerging Research Agenda. *Forthcoming*.
 - **Pradhan, B.**, Dhakal, S., 2021. Implications of Electric Mobility for Kathmandu Valley: Impact on transport energy demand, GHG emissions, and barrier analysis. *Forthcoming*.

REFERENCES

Dr. Gabe Chan

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