FOSTERING INCLUSIVE ELECTRIC COOKING ADOPTION IN NEPAL:

Barriers, Impacts, and Pathways for Disadvantaged Groups

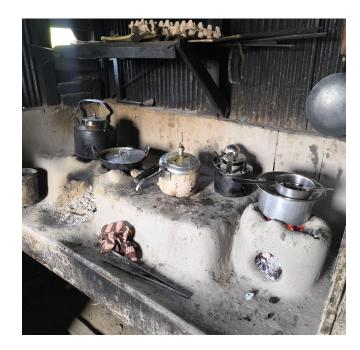
Min Bikram Malla

Practical **ACTION**



Background

- The majority of households in Nepal still rely on polluting cooking methods.
- Over 95% of households are electriticity access; eCooking offers a clean, safe, and time-saving solution.
- With support from donors and the government, eCooking promotion is expanding—but adoption among the most vulnerable remains low.
- Disadvantaged groups (DAGs) face greater barriers to adoption.
- Understanding these gaps is key to achieving a just and inclusive energy transition.





Research Objectives



Compare adoption between DAGs and non-DAGs



Identify barriers to use



Assess socio-economic, gender, environmenta impacts

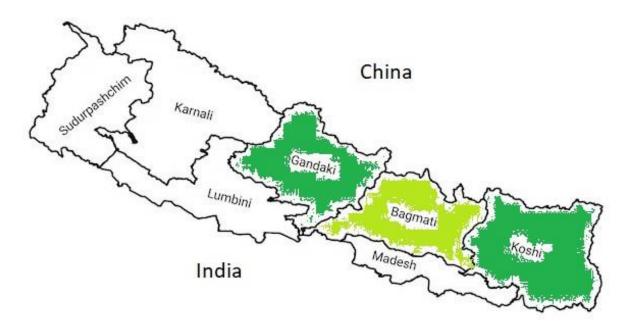


Recommend inclusive pathways

ELECTRIC COOKING ADOPTION IN NEPAL

Methodology

- The study encompasses a 400-household (DAG: 224, Non-DAGs: 176) survey across two provinces in Nepal.
- 23 Key Informant Interviews & 15 Focus Group Discussions.
- Probit, Tobit, and Propensity
 Score Matching (PSM) models for analysis.



Legend	
	Sampled survey locations

About the case study project

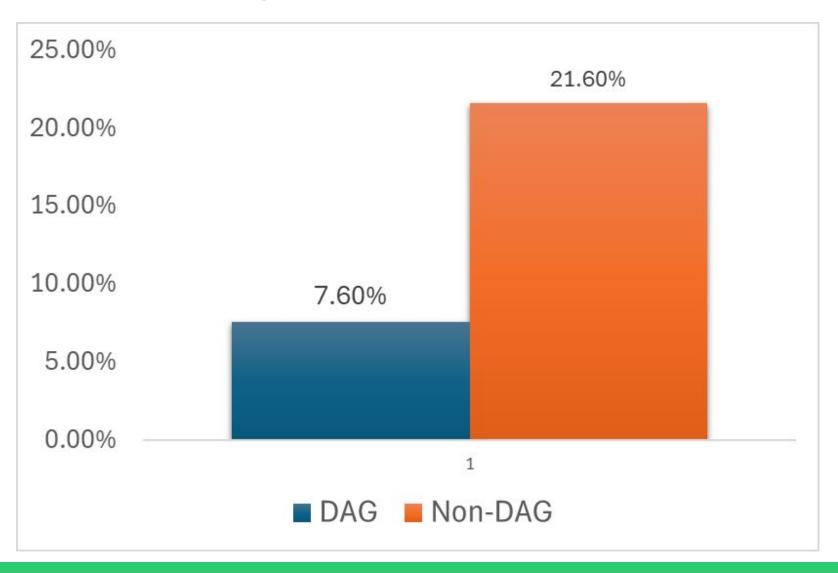
- Donor: Energising Development (EnDev)
- Project implemented by: Practical Action
- Partner Organisations: NACEUN, DCRDC, NCDC
- Main objective: Develop Sustainable Electric Cooking Market in Nepal
- Supported more than 35,000 HHs to adopt eCooking and the number is increasing





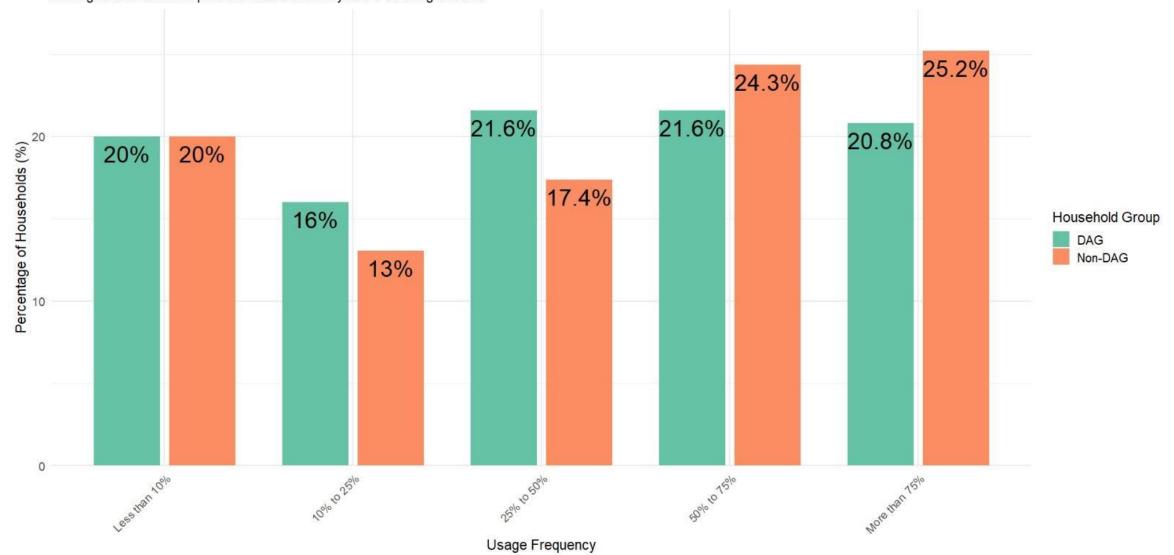
Findings

Purchase rate - Among DAG and Non-DAG

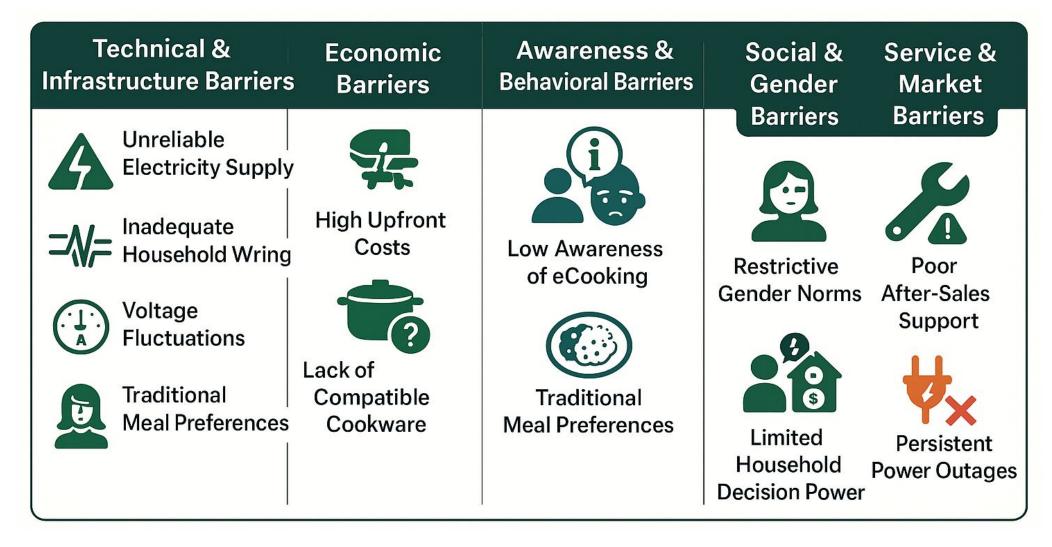


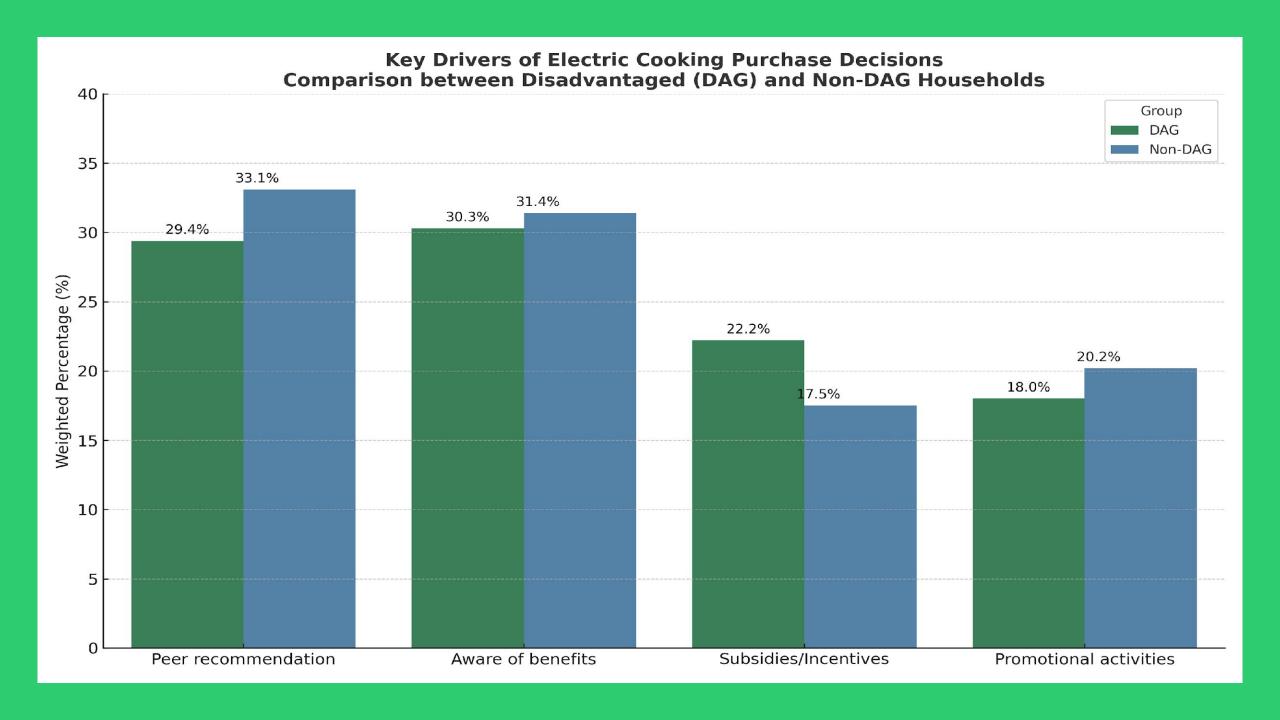
E-Cooking Usage Rate by Group (DAG vs Non-DAG)

Among households that purchased and currently use e-cooking devices



Barriers to Electric Cooking Adoption among DAG





Key Policy Recommendations



Targeted subsidies:

Subsidies for disadvantaged groups to enhance equity and accessibility.



Electricity reliability:

Through strategic investments and infrastructure improvements.



Electric Cooking policies:

To ensure the effective implementation to promote sustainable solutions.



Women led enterprises:

Targeted support for fostering growth of business and repair centres.



Behaviour change and financial inclusion:

For broader socio-economic impact.

Acknowledgement

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- Funding support: Energising Development (EnDev) programme
- Project partner NGOs: NACEUN, DCRDC & NCDC

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