ELECTRIFYING ECONOMIES

EFFICIENT APPLIANCE MANUFACTURE

Efficient injera mitad manufacture
Ethiopia
2017-2020

Electric mitads for cooking injera are increasingly used in Ethiopia. Rapid uptake of more efficient models has been driven through developing more efficient technologies, implementing product standards, and training local manufacturers.

INJERA MITADS ON SALE IN ETHIOPIA. PHOTO COURTESY RMI

THE SITUATION

- As incomes and electrification rates increase, Ethiopia sees increased use of electric mitads to cook injera
- The use of these cookers contributes to high energy bills and peak demand on the national grid
- Local manufacture makes up a significant proportion of the market
- Conventional products have 4kW rated power, 20-minute start-up time, and low efficiency (<55%)

THE SOLUTION

Research projects led by local universities, often with international partners, developed and tested more efficient mitad technologies.

A national product standard was published, establishing minimum quality and efficiency levels.

Local manufacturers have been trained to enable them to improve their processes and increase product efficiency to meet national standards.

GATHERING MATERIALS
PHOTO COURTESY
ZEWGE WORKU

THE IMPACTS

Dozens of manufacturers have received training and technical support to improve their processes, adopt new technology, and provide higher quality appliances for the domestic market. By meeting and exceeding the new product standards, manufacturers are benefiting their consumers and helping limit peak power demand on Ethiopia's grid, freeing up capacity for new connections.

ETHIOPIAN ENERGY AUTHORITY:

www.eea.gov.et

FURTHER READING

→ EFFICIENCY FOR ACCESS COALITION

→ QUALITY ASSURANCE FOR APPLIANCES AND OFF-GRID SOLAR
VeraSol

→ ENERGY EFFICIENT LIGHTING AND APPLIANCES PROJECT
EACREEE

INJERA MITADS AND ELECTRIC COOKERS READY FOR SALE. PHOTO COURTESY ZEWGE WORKU

ELECTRIFYING ECONOMIES

The Electrifying Economies project demonstrates the role distributed energy will play in ending energy poverty and catalyzing a green and equitable recovery from the Covid-19 crisis. It draws on the latest data and research from around the world to show how distributed renewables can provide sustainable, affordable, and reliable power for all. The project provides information to support policy makers and investors in taking action today, to realize this potential.

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