TECHNISCHE UNIVERSITÄT DRESDEN

Name: Subha Niranjan
Manager Infra structure
Infosys Ltd
India
CIPSEM Alumina
Technical university Dresden

Exploring the effectiveness of improved Cookstoves in aiding sustainable consumption

Case Study - A study of the rural community in Meghalaya

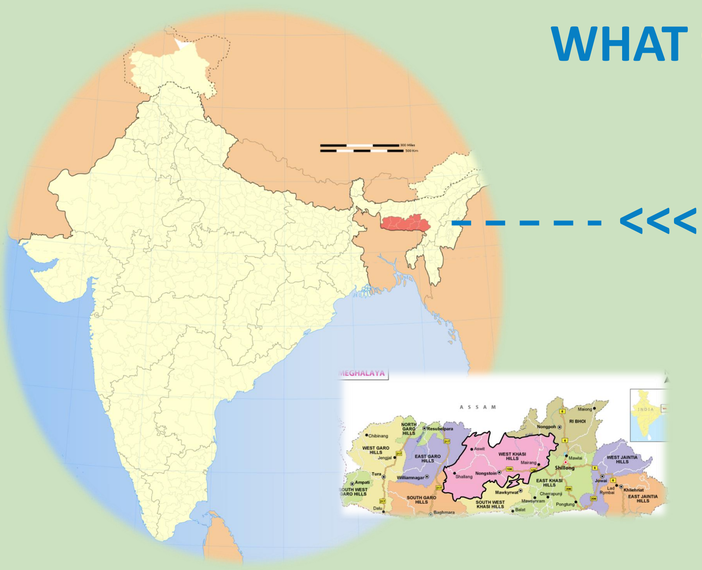
Infosys®
Navigate your next

WHY >>> - - - -

HOW >>> - - - -

WHAT >>> - - -

- - - - - <<< WHERE



Meghalaya state in Eastern part of India

Garo Communities, highly rely on the forest for their energy needs

APPROACH TO CARBON NEUTRALITY

- **Energy Efficiency**
- **Renewable Energy**
- **Unavoidable Emissions**

CARBON OFFSET PROJECTS

Traditional Cooking

A lot of smoke & a lot of firewood

Efficient Cookstove

Very little smoke, very little firewood

Beneficiary

Improved Livelihoods

PROJECT IMPACT

- 72.8% of rural houses still utilize wood fuel to cook
- Improved cook stove given to 10,000 beneficiaries
  110 jobs created
- 65% fuel saving - fuel wood savings 38,325 tons/year
- 20,000 tons of Co2 reduction annually
- Fuel wood saving per year 38,325 Ton/year
- 1.5 hours saved on collection of fire wood per/ house
- Decrease in household smoke 70% - decreased respiratory problems, eye & throat irritations

SDG 3: Good Health & Well Being - 70%
SDG 5: Gender Equality - 1.15 hrs.
SDG 7: Affordable & Clean energy - 10,000 households
SDG 13: Climate Action – 20,000 tCO2e/annum

Social Impact	Environmental Impact
▪ Improved Livelihoods	▪ Reduced emissions
▪ Jobs Created	▪ Reduced deforestation
▪ Less exposure to pollution	▪ Reduced biodiversity loss
▪ Women empowerment	▪ Climate action awareness

Member of: DRESDEN concept SCIENCE AND INNOVATION CAMPUS

Supported by:

With financial support from the Federal Ministry for Economic Cooperation and Development

DAAD Deutscher Akademischer Austauschdienst German Academic Exchange Service

CIPSEM