







NREP

- DfID-funded
- > 4.5-year programme
- Primary Public Sector
 Partner
 - AEPC under MoEWRI
 - Provincial and Local Governments
- Implementing Partners
 - DAI, Winrock, PEI, SP UK



Agriculture in Nepal

- Around 27% of the GDP
- Average land holding size – 0.8hectare per family
- Subsistence based
- Human and animal power in the farm Over 75%

In 2018/19 Nepal Agri import from India and China

- 1.7 M tons of vegetables,
- 383,000 ton of fruits,
- 1.4 M ton of cereals
- 303,000 tons of animal feed

NEED



- Potential interruption in the food supply chain
- Reduced jobs in Nepal and outside
- Various sectors may be affected badly
- Migrant workers returning to Nepal
- Potential internal migration from cities to rural areas

Powering agriculture value chains

PRODUCTION

- Solar, wind-powered water pumping
- Biofuel-powered machinery
- Solar Desalination, heating cooling
- Efficient machinery/ maintenance
- Low-pressure, efficient irrigation
- Biomass residue energy generation

POST-HARVEST AND STORAGE

- Solar, geothermal food drying for storage
- Solar cooling and refrigeration
- Minimized/efficient packaging
- Food loss reductions
- Efficient drying
- Improved Insulation for cool storage

PROCESSING

- Solar, wind, hydro milling, pressing, cooking, drying, etc.
- Renewable electricity and heating application
- Modern biomass for cooking
- Efficient processing for cooking
- Smart Integration into existing fossil fuelbased power systems

COMMERCIALIZATIONS

- Biofuel for transportation and distribution
- Solar cooling and refrigeration (retail)
- Truck design and operation
- Improved efficient Infrastructure
- Efficient market Information through modern ICTs
- Capacity building for farmers, traders, etc. to improve understanding of value.



DRE Solutions for Powering Agriculture

- High-tech greenhouses
- Cold storage
- Irrigation pumps
- Agri based MSMEs

Expected outcomes



FOOD SECURITY



JOBS



LIVELIHOODS OPPORTUNITIES







THANK YOU







