Sustainable Agriculture:

Sustainable agriculture in India, with its increasing adoption of organic farming and eco-friendly practices, aligns with broader sustainable energy interventions. Implementing renewable energy sources renewable energy solutions, India can create a more holistic and environmentally friendly approach to food production, reducing its carbon footprint and promoting a greener future for the agricultural sector.

SELCO adds value in the agricultural sector by offering solar energy solutions that cater to the unique requirements of farmers. By providing solar-powered irrigation systems, pumps, and agro-processing technologies, SELCO enables farmers to access clean energy for irrigation, post-harvest processing, and other agricultural activities. This value addition enhances productivity, reduces operational costs, and promotes sustainable farming practices, empowering farmers to improve their livelihoods and contribute to environmental conservation.

SELCO®

SELCO is a social enterprise established in 1995 with the philosophy of poverty alleviation through enabling access to sustainable energy solutions and services to under-served households, institutions and businesses in rural areas.

SELCO®

AGRICULTURE

increasing productivity through value addition

Challenges faced by Farmers:

- Irrigation Challenges
- Dependence on Fossil Fuels
- High Operational Costs
- Limited Mechanization
- Post-Harvest Losses
- Limited Value Addition

SELCO's Interventions:

- Water distribution systems
- Cold storage facility
- Snack making machines
- Value chain based solutions for millet, paddy, tomato, potato, etc.

Special Projects

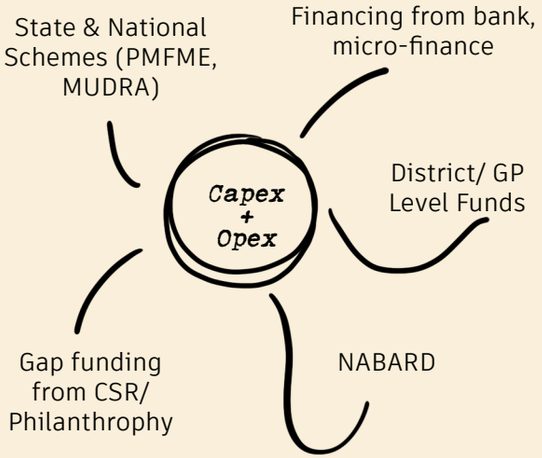
Flour Mill and Spice Grinding Machine

- Village: Bankolli in Yellapur Taluk, Uttara Kannada District
- Number of families: 90 to 100, all farmers and agricultural laborers
- Power situation: Unreliable and distant from Vajarahalli or Yellapur
- Initiative: Solar-powered flour mill and spice making machine
- **Impact: 97,200 units of electricity generated per year**
- **CO2 reduction: 74.655 tons/year, equivalent to 541 trees' carbon absorption capacity.**

Solar-Powered Cold Storage

- Farmer in Bableshwar Taluk, Vijayapura, Karnataka
- Main Crop: Dry grapes
- Monthly Cost: Rs. 10,000-15,000 for transportation and storage
- Initiative: solar-powered cold storage
- **Impact: Increased income from rent for storage, savings in transportation costs for other farmers in the area.**

Financial Model



Did You Know?

The country wastes a significant portion of its farm produce due to a weak cold chain infrastructure, with **16%** of **fruits and vegetables** being wasted every year.

Up to **10% oilseeds, pulses and cereals** grown in India are completely wasted.

Approach

Scan the QR code to watch our video on Cold Storage

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