

Integrated Renewable energy-based Model Villages



Project location

Belgaum and Vijayanagara districts of Karnataka; Veltoor district of Telangana



Partner agency

SELCO Foundation



Project duration

February 2020 - January 2023



Objective

To provide community lighting solutions using renewable energy in villages of Karnataka and Telangana where wind farms of Apraava Energy are located.



What was the pre-project scenario?

In Belgaum district, the villages around the city of Saundatti face frequent storms which results in damage to power transmission lines leading to prolonged power outages. Lack of sufficient lighting in villages in this scenario confined villagers to their homes after dark, most of whom are migrant workers.

In Vijayanagara district, the tribal village of Harakanalu lacked proper lighting which prevented women and children from venturing out after dark and also halted social activities in the evening. Irregular power supply posed multiple challenges for the smooth functioning of the Primary Health Care Centre catering to the medical necessities of three villages - Harakanalu, Harakanalu Sanna Tanda and Harakanalu Dodda Tanda.



Intervention categories

Community	Health	Education	Livelihood	Household
Street lights High-mast lights Temple lighting Panchayat lighting	Solar power system for Primary Health Care Centre	Digital education program Hostel lighting Smart Anganwadi	Sewing Photocopying Roti rolling Trimmer DC Refrigerator	Home lighting Fans





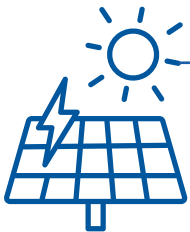
Saundatti

40 solar-powered streetlights and 2 high-mast lights were placed at strategic locations in the villages of Goravanakolla, Vatanal, Yekkeri, Hulikkatti, Gorabal and Basidoni near Saundatti

Decentralised solar powered sewing machines worth INR 15,000 each were provided to two local tailors in Gorabal with 70% contribution from Apraava Energy

69 households of Goravanakolla village provided solar-powered home lighting with 64% contribution from Apraava Energy

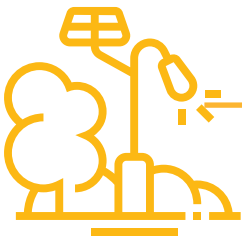
A 65-watt solar-powered refrigerator with 100 litre storage capacity was provided to a micro-entrepreneur in Gorabal village with 69% contribution from Apraava Energy



Harapanahalli

10 solar-powered streetlights and 3 high-mast lights were installed in Harakanalu village

Solar power system installed at the Primary Health Care Centre at Hakanalu village to cater to electricity demands at a total cost of INR 0.4 million with 75% contribution from Apraava Energy



Veltoor Solar Powered

Street lighting at Ammapur

Street lighting at Madinapur Police Station

Digital education program at Muthyalampally

Smart Anganwadi at Muthyalampally

Home lighting

System at Primary Health Care Centre