

Capacity building of TRIF staff in mini-grid demand management strategy and research on climate assessment in Kurdeg, Jharkhand, India.

At the bidding of the WRI, Hamara Grid has partnered with the Transform Rural India Foundation (TRIF) to identify and implement scalable productive loads in their operational mini-grid villages in the Kurdeg block of Simdega, Jharkhand. The aim is to stimulate an increase in the productive use of the energy (PUE) provided by the mini-grid in an inclusive, sustainable, and climate-friendly manner. It can then be scaled across rural communities and geographies, as well as triggering the socio-economic development of tribal communities in Jharkhand. In mid-December 2021, the team successfully converted five fossil-fuel based water pumps (1.5 HP) to clean electric water pumps (0.75 HP) in Kurdeg as part of a PUE pilot. As well as reducing CO₂ emissions by 1.5 tons, it has reduced irrigation costs by an estimated 74%. This pilot will inform and impact the scaling of productive loads powered by village mini-grids in this region and beyond.

