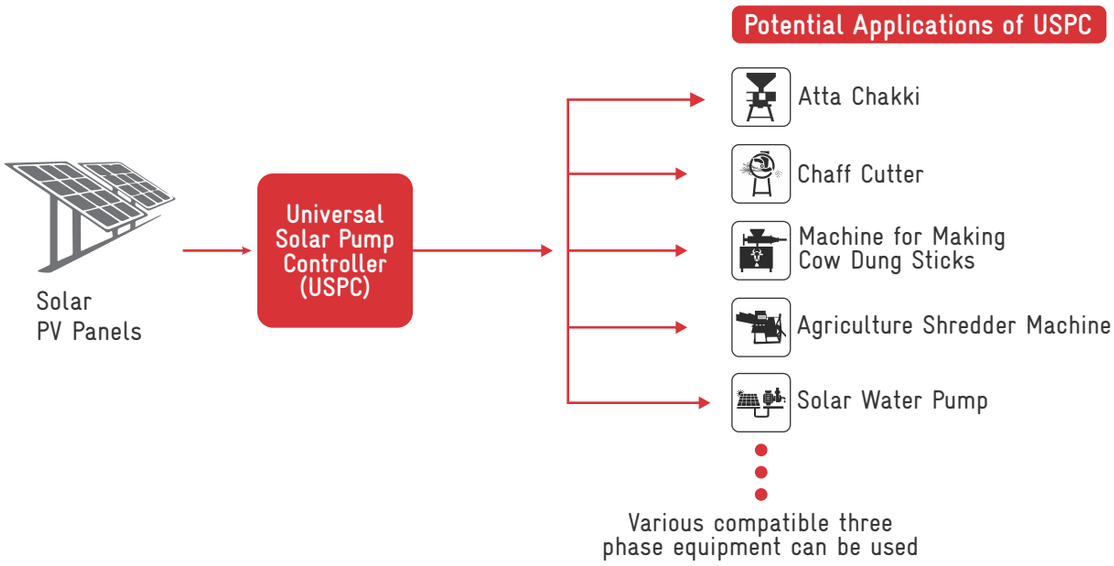
Universal Solar Pump Controller (USPC)

Challenges faced in penetration of USPC

Solar-powered irrigation pumps help in improving the livelihoods of farmers in environmentally sustainable manner.

However, asset utilization of standalone Solar Water Pumping systems (SWPs) is typically low because solar pump is predominantly used for 100-150 days in a year.

Universal Solar Pump Controller (USPC) has potential to reduce/avoid loss of solar energy and make available the unutilized energy for alternate uses.



Challenges	Suggested Interventions
Limited awareness amongst farmers and State Implementation Agencies (SIAs) regarding benefits and applications of USPC	• Awareness campaigns **(By MNRE and SIAs)** • Showcasing credible demonstrations to farmers **(By SIAs)** • Single window mechanism to encourage participation and assist farmers in USPC installations **(By MNRE)**
Improper targeting/screening of farmers for USPC installations	• By identifying and segmenting the farmers (parameters such as having compatible Agri equipment etc.), the SWPs/USPCs can be targeted to right people in right way. **(By SIAs)**
Limited information on potential equipment that can be operated with USPC	• Provision of list of compatible Agri equipment to SIAs and farmers through awareness campaign. **(MNRE and testing Agencies)**
Inadequate or inaccurate communication by USPC installation agency/service team	• Designing of standardized communication material **(By MNRE)** for facilitating proper exchange of information between service team and farmers **(By SIAs)** • Market promotion and improved local after-sales infrastructure (training of existing local pump technicians/sales outlets) **(By SIAs)** • Collection and assessment of periodic feedback from farmers and sharing information about USPC as per requirement **(By SIAs)**

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