

Webinar: Snapshot of SWP Supplement




24th September 2019



Globally 500M+ farming households could benefit from improved irrigation; SWPs are an increasingly viable solution

The main solar water pump uses are for agriculture & drinking water

Technology snapshot

	Submersible pump - large	Submersible pump - micro	Surface pump
			
Description	Fixed pump and PV panels, tailored installation	Semi-fixed pump and PV panels, guided installation	Mobile pump and PV panel, guided installation
Example technical specifications	Typically works on a 2,000–4,000W panel. Flow rates of ~10,000–25,000 liters / hour. Maximum suction lift of ~100–450 meters.	Typically works on a 150–1,000W panel. Flow rates of ~1,000–6,000 liters / hour. Maximum suction lift of ~20–65 meters.	Typically works on an 80–500W panel. Flow rates of up to ~3,500 liters / hour. Maximum suction lift of ~5-10 meters.
Approximate starting price (branded, including panel)	USD 3,000–5,000	USD 1000–2000	USD 600–800

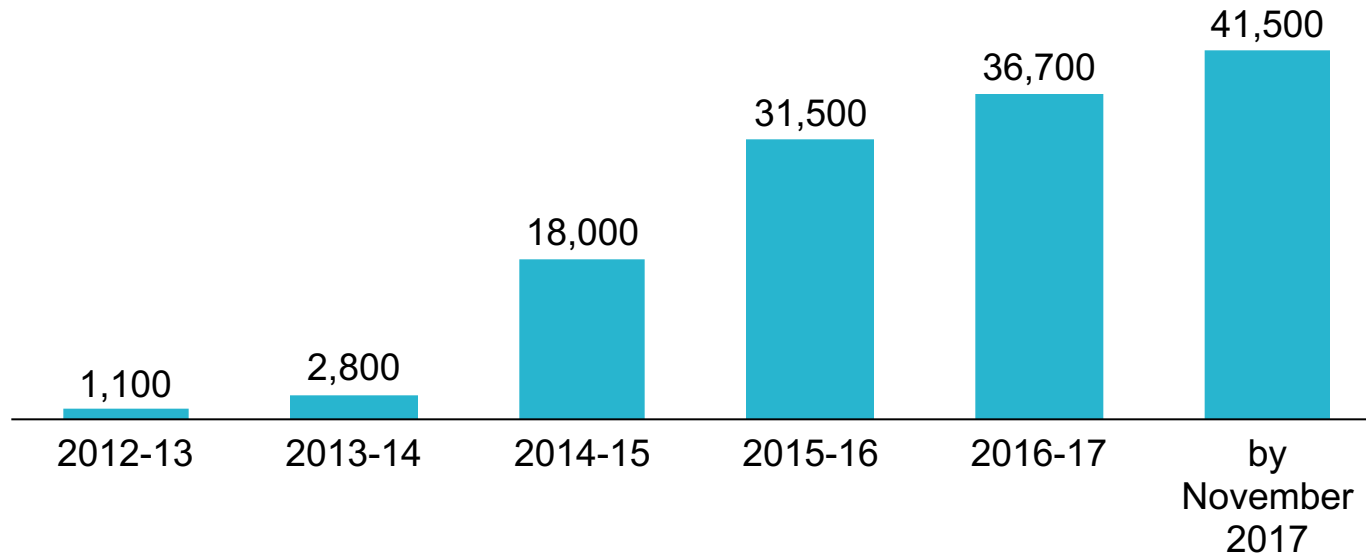
Across the board, system prices have fallen by approximately 80% over the last two decades

Further SWP system uptake could contribute to a range of SDGs

(1, 2, 3, 5, 6, 7 and 13)

The market for SWPs remains underpenetrated in both SSA and India, a potential market of \$11Bn by 2030

India Solar Water Pump Installations per year



Only 1% of solar water pumps in use today in India are solar, while 32% are diesel and 68% are electric pumps

The 2030 solar water pump market potential in India is estimated at USD 9.4Billion. Subsidies have a major impact on the market size

Several factors shape demand and the extent to which positive outcomes are realized

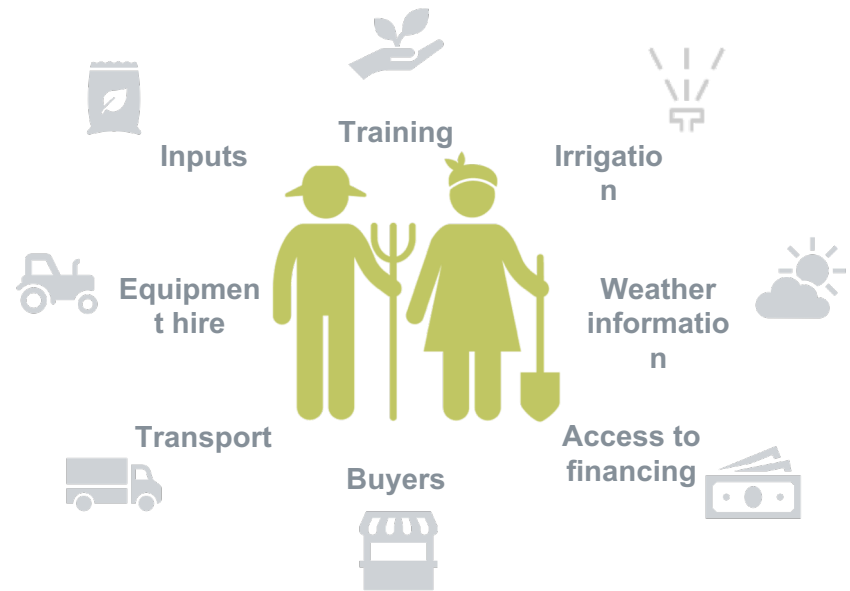
Demand is shaped by:

Awareness and know-how

Affordability

Water access

Core farmer needs are prerequisites for success



Potential impacts on productivity, net income, gender equality and climate resilience

The solar water pump market could be on the cusp of substantial growth - action in four areas could accelerate this

POLICY

FINANCING

TECHNOLOGY

PARTNERSHIPS