

Identifying Farmers for In-situ Instrumentation in Punjab, Pakistan

From 7th March to 11th March 2022, members from SoLAR – Pakistan, IWMI, visited 12 sites in three districts of Punjab – Chakwal, Jhang and Rahim Yar Khan – to identify 12 sites to be monitored with in-situ instrumentation. These would include 6 diesel and 6 SIPs. These sites will be monitored in each district chosen for the behavioural study of SIPs. The instruments will record the actual discharge flowing through the tube wells as well as the duration of their operation, power generation capacity and utilization by the installed PVs and the amount of water applied to the farmer field through soil moisture sensors.

Some key criteria for choosing farmers for instrumentation were the following:

- Land holding size around 10 acres
- Function SIPs
- Pump location secure from theft
- No change in the choice of crop irrigated by the identified pump in the coming season
- Identified pump is the main source of irrigation for the crop or vegetable in general, and of the plot for soil moisture sensor installation, per se.
- Plot with stable network coverage for uninterrupted data
- Selected farmer had previously participated in the main behavioural study.

Some photos from the sites

Chakwal



Jhang



Rahim Yar Khan

