Solar Energy Management and Planning System (SEMPS)

Bringing Artificial Intelligence into Solar Energy harvesting and storage platforms to predict, plan and manage energy in resources-constrained applications

Problem

(a) Prediction, planning & management of solar energy availability is inefficient. It relies on human gathering complex and large data for decision making.

(b) Battery design technology is projected to reach acceptable performance in resource constrained applications such as urban electric aircrafts design, in at least 5 years.

Until there is a considerable improvement in the current limited battery technology, there is an urgent need for an intelligent system that will:
(1) forecast solar energy availability through a daily cycle,
(2) plan and (3) manage solar energy harvesting,
storage, and usage mechanisms.

Solution & Innovation

An Artificial Intelligent (AI) solution that will not require human intervention in order to forecast, plan and manage solar energy harvesting, storage, and usage mechanisms.

Proposed by TeamSemps