

OVERVIEW

Use of solar systems to power aids to navigation, obstruction lights, remote monitoring sites, and other types of instrumentation is now common practice. Having installed over 20,000 solar power systems worldwide, we know these systems have proven to be more reliable, more cost-effective and easier to maintain than conventional power sources.

Our many years of collective experience in this field make us the best option for industrial solar array systems. PMAPI has the expertise to fully engineer and customize systems to meet customer-specific requirements that stand up to harsh environments, from small scale solar skids to large industrial grade solar power systems - for both Onshore and Offshore applications.



KEY FEATURES

- System components include:
 - Solar array of 1 or more modules
 - Batteries (to store sun-generated energy until required)
 - Power conditioning devices to prevent overcharging of the battery and loss of power through the array at nighttime
 - Power distribution equipment
 - Battery housings
- The devices must complement each other for maximum reliability and economy in the intended application
- Our calculations match array and battery requirements to power a given load virtually anywhere on earth
- Array structures are custom designed to customer's site conditions
- Many customers choose to mount all the solar modules on one array structure but wire groups of modules to operate as independent power systems dedicated to a single system load

HAZARDOUS LOCATION SAFETY

Systems may be designed to be fully compliant with:

- NEC Class 1, Division 2 Hazardous Areas
- IEC Zone 1 or Zone 2 Hazardous Areas





Offshore Gulf of Mexico



Offshore Wind Farm



Top View of Array Structure

Heavy Duty Interconnection
between Solar Modules



Typical Battery Array



Typical Gear Switch



Typical Battery Boxes

