

Modular Louvered Solar Array

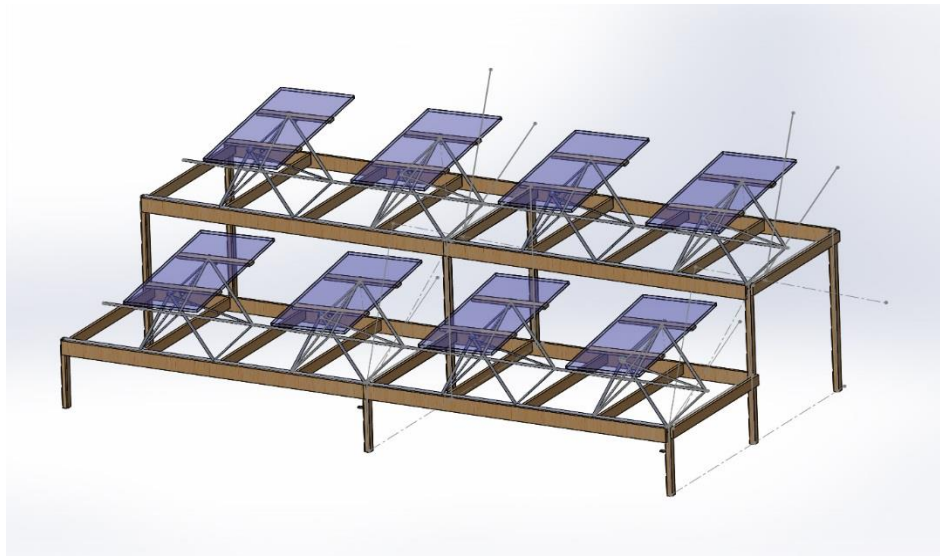
A section of the solar energy system, prototype, to built and tested at my home.

Solar modules can be solid for high density or louvered. Louvered panels are cheaper and tougher then typical trackers. Area density is about half of solid panels but productivity is abut 75% making per watt cost less then stationary. They tilt daily to track the sun, also vertically to track the seasonal angle.

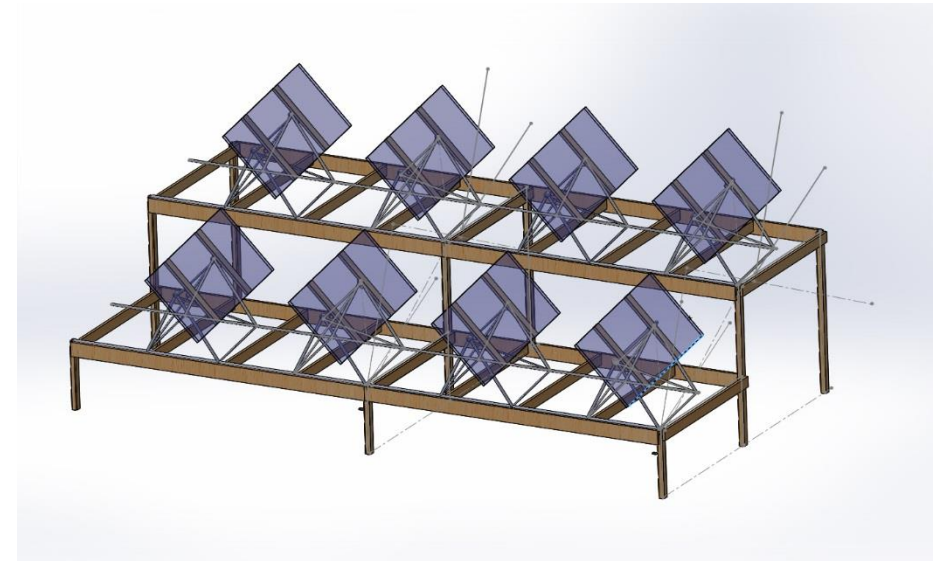
---- Gains

- 1) Productivity per panel is increased.
- 2) Snow slides off more easily in the winter.
- 3) Grasses receive enough leftover sunlight to flourish for low environmental impact.
- 4) Wind sensors can lower both angles of tilt when wind is above 25 MPH
- 5) Being modular allows them to fold up for transportation. (20) 20ft modules can fit on a flat bed truck. Permanent or Temporary solar systems can be built in hours.

Panels at noon



Panels at Sunrise



1 Shipping stack of modular panels
2 stacks in a 40 ft shipping container

