

## Solar Farm

A solar farm spread over 6 square miles of the sunniest areas of the U.S. southwest will yield 2.3–2.6 billion kW-hr/year.



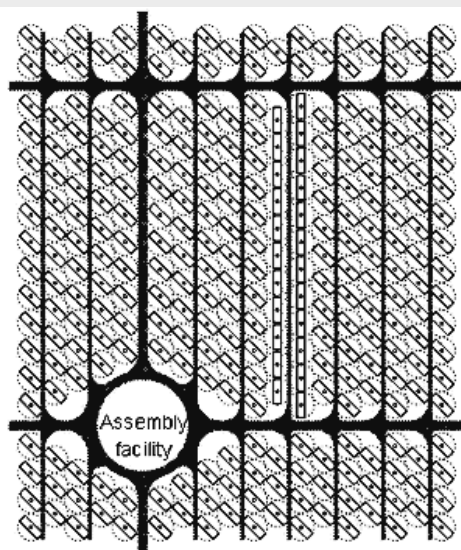
Rendition of REhnu solar farm in a desert setting

A 1 gigawatt REhnu farm comprises 50,000 20 kW generators. Completed units are set out on the farm in a triangular grid pattern on 50' centers. In the middle of each farm is the assembly facility. Completed units are moved out to the field for installation along narrow access roads running between every other row of generator units. Clearance needed for installation is obtained by turning units parallel to the road. In this way, installation and reflector cleaning operations can be fully mechanized. An optimally sized single farm of gigawatt scale will cover 6 square miles, with the longest distance to transport a generator out from the assembly facility being 2.5 miles.

### Annual energy yield

The annual energy yield depends on the annual average direct solar flux at normal incidence.

Across most of Arizona and southern California this is between 7 and 8 kW-hr/m<sup>2</sup>/day. The long horizontal profile of REhnu's generators minimizes self-shadowing to less than 10%, despite the farm's closely packed layout. Thus, depending on location, the actual annual yield will be 2.3–2.6 billion kW-hr/year, about a quarter the output of a coal-fired plant running continuously at 1 GW (but with no fuel cost and no CO<sub>2</sub> emission).



Installation pattern for REhnu modules

## More Utility Scale

Market Potential

Solar Farm

Cost



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## Press Coverage & Presentations

GreenTechMedia: "A Different Focus on CPV" - 29 March 2011

Clean Technica covers REhnu - 26 February 2011

CEO Roger Angel presents ARPA-E seminar - 25 February 2011

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