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The invention refers to the power engineering, namely to the sun power plants, and may be used for solar-to-electric power conversion.

The sun power plant includes a solar steam generator, connected by a pipe-line to a steam turbine, an electric generator and a capacitor. Novelty of the invention consists in that the plant additionally contains a water absorption device, placed above the solar steam generator and including a reservoir with two sections, one with hygroscopic filler, and the other for distilled water accumulation, and a transparent cover, which is fixed onto the reservoir inclined towards the distilled water accumulating section. The solar steam generator is made in the form of a collector pipe system, each of which is provided with a concentrator of sun power.

Claims: 1

Fig.: 1