



Types of solar thermal collectors

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Solar Radiation Intensity: The amount of solar radiation that strikes a solar collector is a major factor that affects its performance. Solar radiation intensity is measured in solar insolation. The higher the solar insolation, the more solar radiation is available to be absorbed by the solar collector.

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SETO funds research and development in this area to improve the performance and lower the cost of solar collectors and produce prototypes that demonstrate the viability of advanced technologies for future integration in CSP plants. In particular, SETO-funded projects are working to develop solutions that enable a solar collector field to fully operate without any human input, reducing operating costs and maximizing thermal energy collection efficiency. Several of SETO's funding programs have projects that focus on solar collectors:

Thermal solar collectors turn the sun's radiation into heat and then transfer that heat to air or water.

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This process is facilitated by a hot water solar collector. There are multiple types of solar thermal collectors:

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