

SOLAR PLANT

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Key Terms

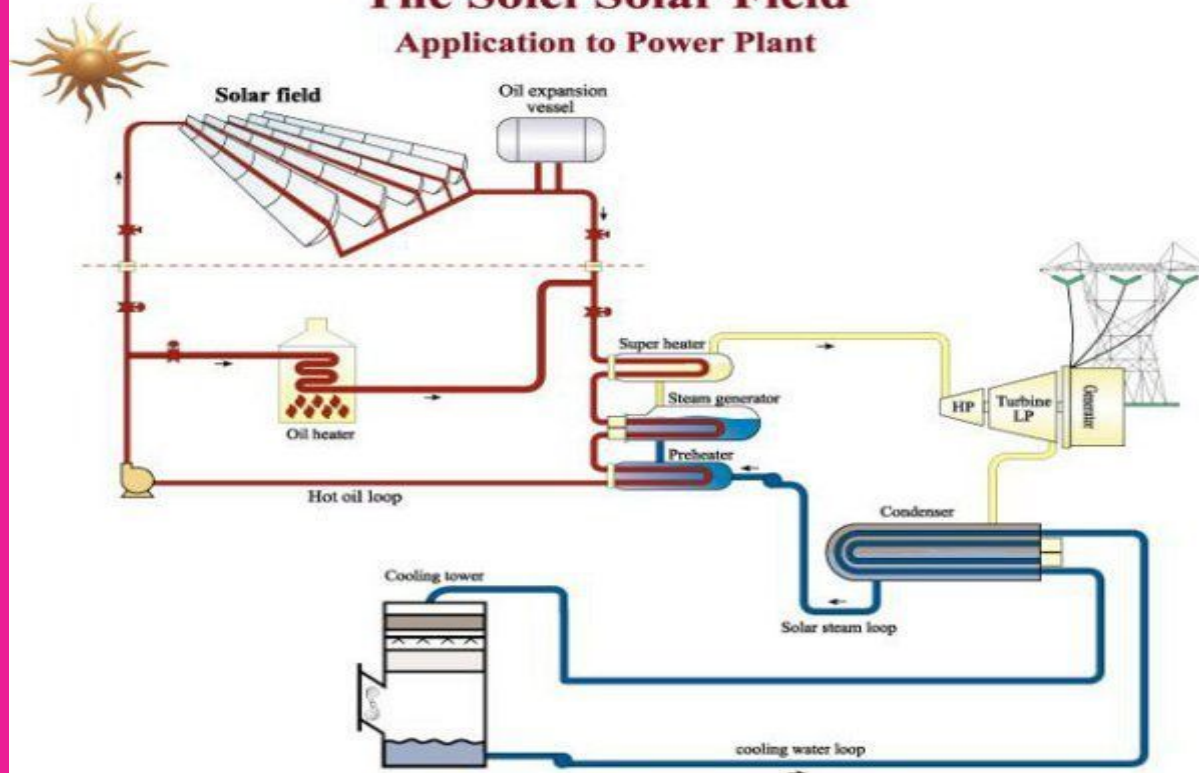
Solar Plant- A **solar** power **plant** is any type of facility that converts sunlight either directly, like Photovoltaics, or indirectly, like **Solar Thermal plants**, into electricity.

Passive Solar System- Converts sunlight into thermal energy without using pumps or fans.

Active Solar System- Captures the sun's energy, then uses fans and pumps to distribute the heat.

The Solel Solar Field

Application to Power Plant



Pros and Cons

Pros

-Reduces Electricity bills

-Renewable

-Mostly environmentally friendly

Cons

-Weather dependent

-High cost

-Need large land area to set up plant

Best Location

The Atacama Desert in Chile is the best location on Earth because it has the five factors which are the latitude, cloud cover, aerosols, elevation and shading. The location has the highest solar energy potential on Earth and it is located near the equator. It is also surrounded by an arid climate away from major sources of pollution, and it also happens to be on a plateau.

Quiz

- Where is the best location for solar plants?
- Name one pro and one con of solar plants.
- What are the five factors that can improve the efficiency of a solar plant?

Answers

- The best location for solar plants is in the Atacama Desert in Chile

Pros:

- -Reduces Electricity bills
- Renewable
- Mostly environmentally friendly

Cons:

- Weather Dependent
 - High cost
 - Need large land area to set up plants
- The latitude, cloud cover, aerosols, elevation and shading.