**Concentrated Solar Power**

**I. Introduction**

* Electricity from the sun’s rays → concentrated in one point
* Tech. with molten salts
* GE decades of experience
* Clean and reliable E
* Economic
* Great flexibility

**II. How it works**

* **Heliostats**: computer controlled mirrors → follow the sun

▷ Positioned individually

▷ ↓ space on ground

▷ Adapt to terrain’s shape

* **Farms**: hundreds to thousand H → communicate with each other (wifi)
* **Tower**: in the center of the farm → **Boiler** on the top
* Sun’s rays focus on the **Receiver**: ↑ temperatures → turn water into steam
* Steam pressure → **Turbine** → **Generator** → Electricity

**III. Molten salts tech.**

* Fluid containing specific chemical components → make plant operational all day
* Process:

1. **Cold molten salts** → pumped to the top → heated to ↑ temperatures → stored in a tank

2. Generate electricity: **Hot molten salts** sent to a steam generator → turbine

3. **Used molten salts** → returned for reuse