

Durée de l'épreuve : 40 minutes

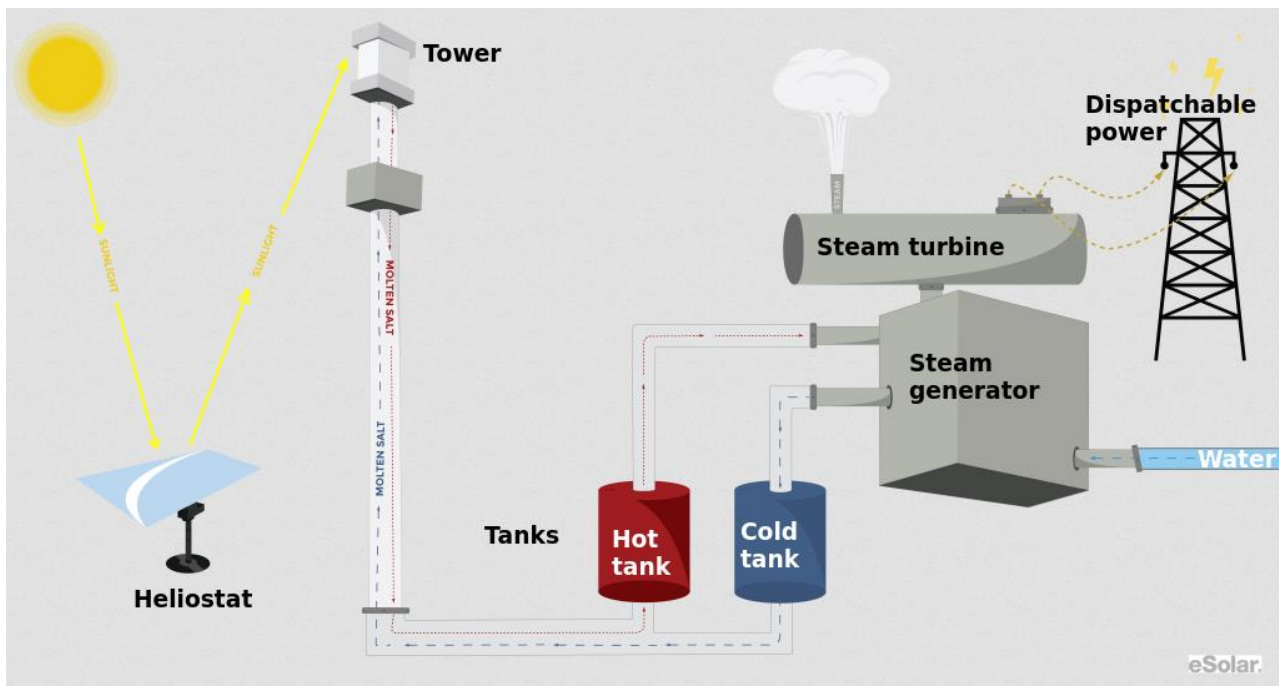
- 20 minutes de préparation

- 10 minutes de présentation et 10 minutes d'échange avec le jury

Molten salt storage

Document 1: *Sujet 1.mp4*

Document 2 :



Tasks:

- Present the documents.
- Provide an oral commentary to the jury while watching the video. Don't be afraid to stop the video when needed.
- The power station is able to produce electricity during the day, as well as during the night. Explain how it is possible.
- Discuss the advantages and disadvantages of such technology and compare them to the existing technologies such as nuclear power plants, coal power plants, wind turbines, photovoltaic generators, etc

Sources : (1) <https://www.youtube.com/watch?v=3-IFks2n3hM> (Agence France Presse channel)
 (2) <http://www.esolar.com/applications/ms-power/>
 (3) <https://en.wikipedia.org/wiki/>

Steam : water vapour

Glossary : Molten salt mixture (3): the most extended mixture contains sodium nitrate, potassium nitrate and calcium nitrate. It is non-flammable and nontoxic, and has already been used in the chemical and metals industries as a heat-transport fluid, so experience with such systems exists in non-solar applications.

Héliostat (3): device that includes a mirror [...] which turns so as to keep reflecting sunlight toward a predetermined target, compensating for the sun's apparent motions in the sky.