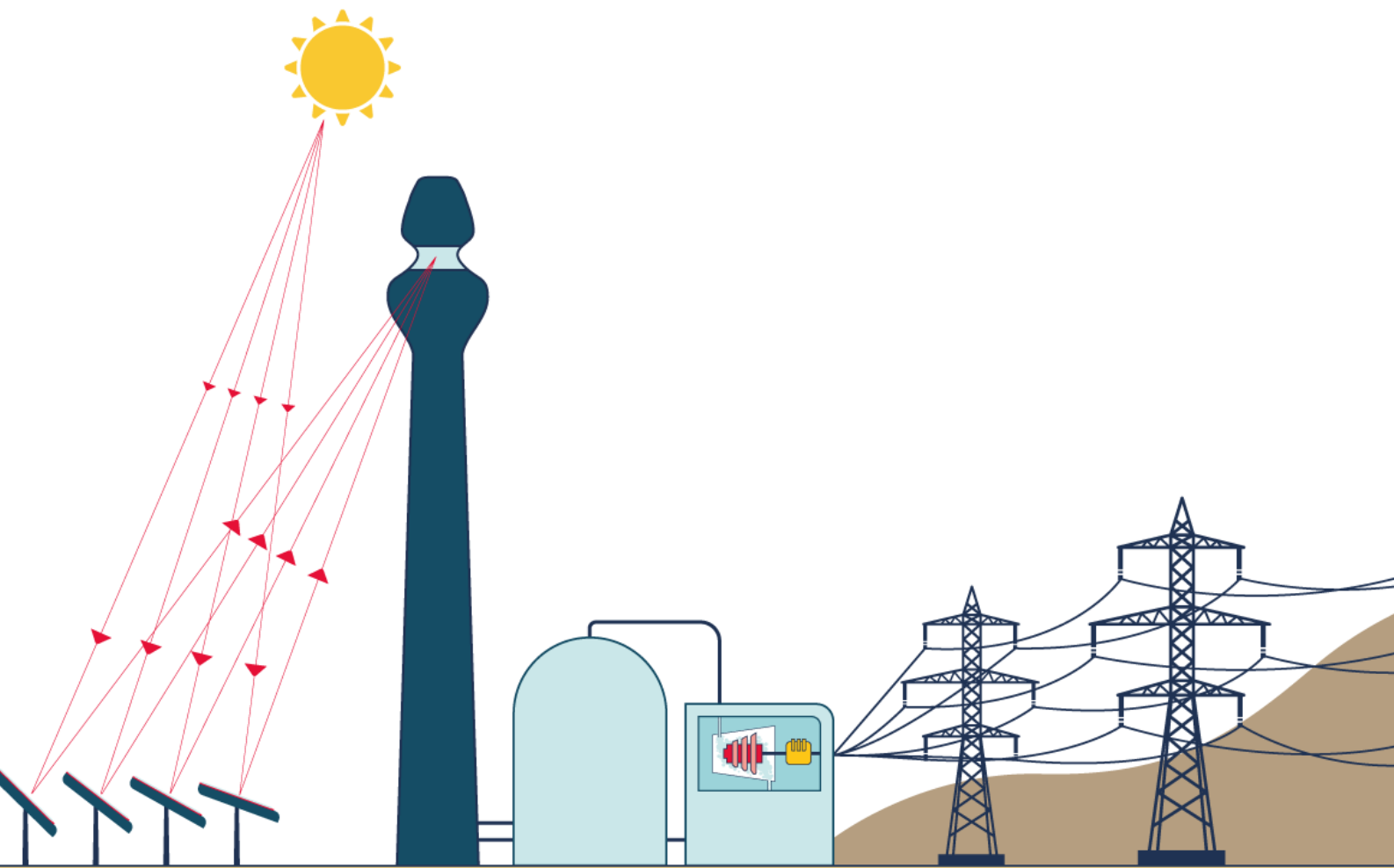


Investigating Renewable Energy

What happens at a Solar Power Plant?

The diagram below shows a solar power plant. Use the description labels and arrows on the next page to show what happens at the different parts of the power plant.



Generator

Heliostats

Receiver

Heat storage and
transfer

Turbine

Large mirrors reflect
sunlight onto a receiver.

The high pressure steam
turns the blades of a
turbine.

Hot fluid is pumped
down the tower for
storage, when required
the heat energy from the
fluid is transferred to
liquid water, creating
high pressure steam.

The generator converts
the spinning motion of
the turbine into
electricity.

The energy from the
sunlight is absorbed by
a fluid – such as molten
salts – warming the
fluid to 500 degrees
Celcius.

