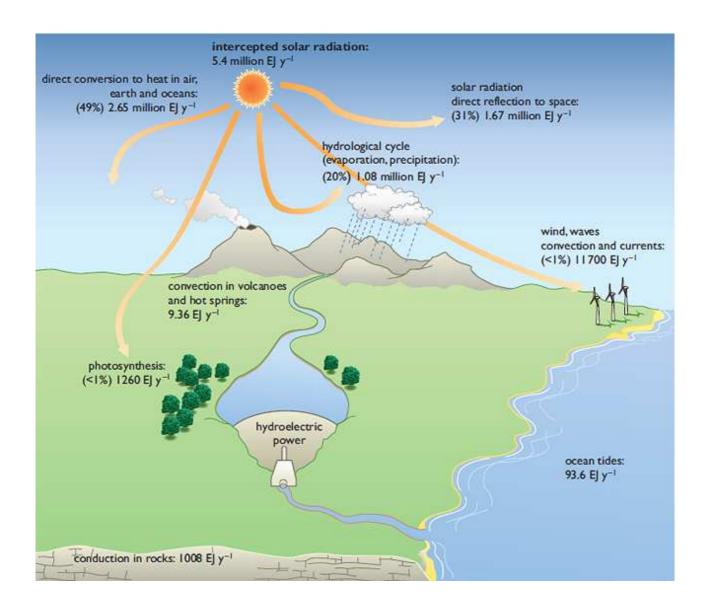
THE SUN: PRINCIPAL SOURCE OF RENEWABLE ENERGIES Activity 1:

Look at the figure below, which summarises the origins and magnitudes of the Earth's renewable energy sources, and listen to the teacher's explanation, then answer to the question below.

EJ = Exajoule (EJ)Equal to 1quintillion (10¹⁸) joules



- 1. How much Solar Energy hits earthper year?
- 2. How much is radiated back to the space?
- 3. How much is still available for use on earth?
- 4. What is the sun temperature surface?
- 5. What are the non-solar renewable energy sources shown above in the picture?

Activity 2:

POWER TOWERS

In groups of four, answer the following questions according what you hear in the power towers video.

- 1. What do power tower use to reflect sunlight onto a solar receiver?
- 2. What is the function of the fluid heated in the receiver?
- 3. What is the temperature in the receiver?
- 4. How is possible for CSP to collect and store heat to generate utility-scale electricity 24 hours a day?