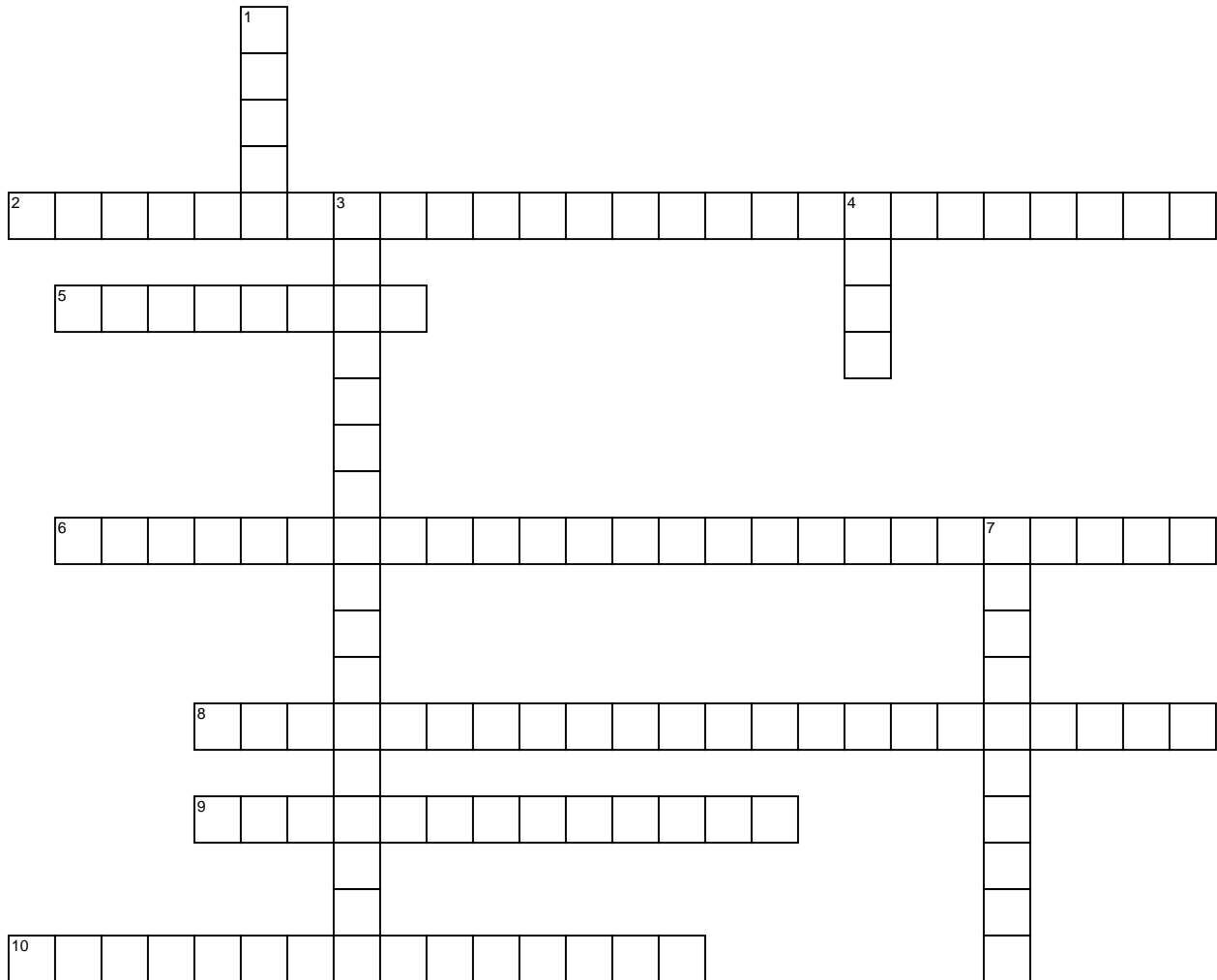




# Solar/Electric Generation

## Chapter 8



### ACROSS

- 2 \_\_\_\_\_ is a measure of a power source which attempts to compare different methods of electricity generation on a consistent basis.
- 5 \_\_\_\_\_ is an apparatus that converts direct current into alternating current.
- 6 \_\_\_\_\_ is a Paris-based autonomous intergovernmental organization established in the framework of the Organisation for Economic Co-operation and Development (OECD) in 1974 in the wake of the 1973 oil crisis.
- 8 \_\_\_\_\_ are systems that generate solar power by using mirrors or lenses to concentrate a large area of sunlight, or solar thermal energy, onto a small area.
- 9 \_\_\_\_\_ is the branch of technology concerned with the production of electric current at the junction of two substances.
- 10 A \_\_\_\_\_ study is an analytical framework used to evaluate a power system with high penetration levels of variable renewable energy (RE).

### DOWN

- 1 \_\_\_\_\_ is the ratio of the amount of usable energy delivered from a particular energy resource to the amount of energy used to obtain that energy resource.
- 3 The so called "\_\_\_\_\_ ", refers to the time, measured in years, required for a complete photovoltaic system (modules, cables, electronic equipment) to compensate for the use of energy for its production.
- 4 \_\_\_\_\_ are systems that convert solar radiation into thermal and electrical energy.
- 7 \_\_\_\_\_ occurs when an alternative energy source can generate power at a levelized cost of electricity (LCOE) that is less than or equal to the price of purchasing power from the electricity grid.