

Solar_Energy_15x15_2006-10-07

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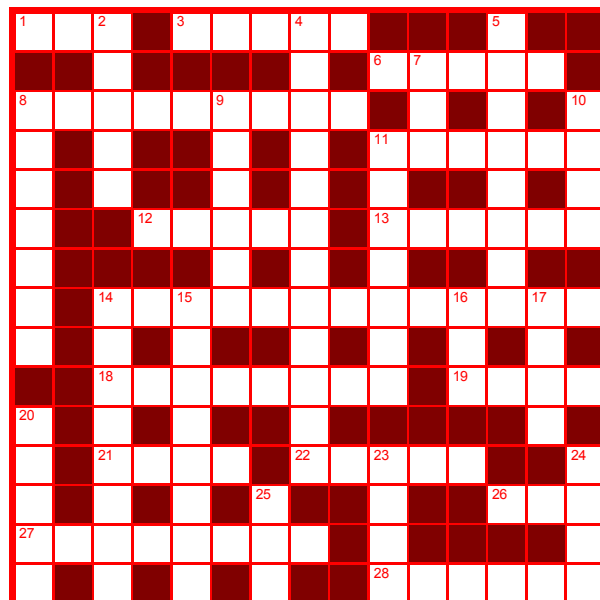
Across

- 1 A method of depositing thin semiconductor films (by exposing the substrate to vaporised compounds) to make certain types of photovoltaic devices. (3)
- 3 A term used to describe a solar module. (5)
- 6 That's what the first 'P' in 'MPPT' stands for. (5)
- 8 A non-crystalline semiconductor material. (9)
- 11 A unit of electrical current that flows across one ohm of resistance at 1 volt. (6)
- 12 ____ Level: Energy level at which the probability of finding an electron is one-half. (5)
- 13 An electrical switch operated by pressing. (6)
- 14 The amount of energy (in electron volts) required to free an outer shell electron from its orbit to a free state. (4,3,6)
- 18 Adjustable ____: A feature allowing the user to adjust the voltage levels at which a charge controller will become active. (3,5)
- 19 The factor by which a signal is amplified. (4)
- 21 CL = Current ____ (A serial transmission method). (4)
- 22 Nickel Cadmium Battery. (5)

- 26 Electrically charged atom or atom group. (3)
- 27 ____ Battery: A general category that includes batteries with plates made of pure lead, lead-antimony, or lead-calcium immersed in an acid electrolyte. (4-4)
- 28 Photovoltaic (PV) ____: The phenomenon that occurs when photons knock electrons loose from the atoms they strike. (6)

Down

- 2 An electronic device that allows current to flow in one direction only. (5)
- 4 The process of restoring all cells in a battery to an equal state-of-charge. (12)
- 5 A device that converts direct



- current electricity to alternating current. (8)
- 7 A measure of the electrical resistance of a material. (3)
- 8 The angle between true south and the point on the horizon directly below the sun. (7)
- 9 ____ System: A solar electric system that includes other sources of electricity generation. (6)
- 10 MTBF = ____ Time Between Failures. (4)
- 11 Pertaining to or prevalent in the surrounding area. (7)
- 14 Average amount of electric power that a utility must supply in any period. (4,4)
- 15 That's what 'N' in 'NEC' stands for. (8)
- 16 Edge Defined Film-Fed Growth method for making sheets of polycrystalline silicon for photovoltaic devices in which molten silicon is drawn upward by capillary action through a mold. (3)
- 17 Electrical ____: An integrated system of electricity distribution, usually covering a large area. (4)
- 20 GFCI = Ground ____ Circuit Interrupter (5)
- 23 That's what 'C' in 'NEC' stands for. (4)
- 24 That's what 'U' in 'BTU' stands for. (4)
- 25 A substance containing by volume approximately 78% nitrogen; 21% oxygen, 0.94% argon, and traces of other gases. (3)