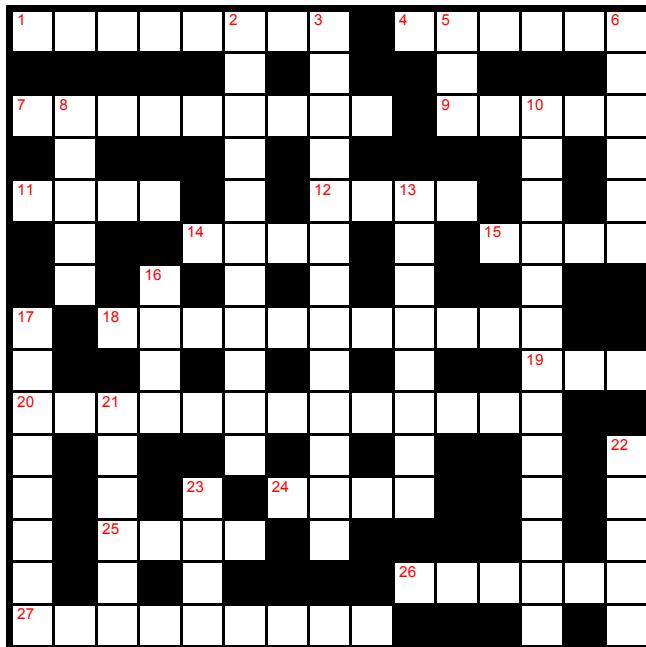


# Wind\_Energy\_Systems\_15x15\_2006-11-27

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## Across

- 1 A vertical axis wind turbine system invented by France in 1925. (8)
- 4 A turning force. (6)
- 7 Number of alternations per second of an alternating current. (9)
- 9 Machine that converts other forms of energy into mechanical energy and so imparts motion. (5)
- 11 The smallest component of an element having the chemical properties of the element. (4)
- 12 The front central projecting part of the rotor. (4)
- 14 A system of high tension cables by which electrical power is distributed throughout a region. (4)
- 15 A small island. (4)
- 18 A nonmetallic liquid electric conductor in

which current is carried by the movement of ions. (11)

- 19 Wind energy systems are \_\_\_-friendly. (3)
- 20 Invisible lines of force which surround all magnets and which pass from the north pole to the south pole of the magnet. (8,5)
- 24 An electrical device that is mating partner of socket. (4)
- 25 The power output of a generator or power plant. (4)
- 26 Towards the side exposed to wind. (6)
- 27 A conductor used to make electrical contact with some part of a circuit. (9)

## Down

- 2 The flow of electrons through a conductor. (11)
- 3 A cell that can be recharged. (9,4)
- 5 Unit of resistance. (3)
- 6 A force that produces or tends to produce rotation. (6)
- 8 The rotating armature of a motor or generator. (5)
- 10 Ratio of the propeller tip speed to the wind speed. (8,5)
- 13 A propeller having cloth stretched over a metal wire frame which forms an airfoil section. (8)
- 16 Scheme for achieving objective. (4)
- 17 Coil in which voltage is induced by motion through a magnetic field. (8)
- 21 A framework of metal bars used as a partition or a grate. (6)
- 22 A rectifier that consists of a semiconducting crystal with two terminals. (5)
- 23 A unit of power equal to 1 joule per second. (4)