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Electric power is the rate, per unit time, at which electrical energy is transferred by an electric circuit. The SI unit of power is the watt, one joule per second. Electric power is usually produced by electric generators, but can also be supplied by sources such as electric batteries. It is usually supplied to businesses and homes (as domestic mains electricity) by the electric power industry ...

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All fuel based generators convert mechanical movement to electrical power. Some renewable energies such as wind and hydroelectric are powered by mechanical systems that also convert movement to electricity. In the last thirty years of the 20th century, equipment which would generally have used electromechanical devices became less expensive.

#### **Electromechanics - Wikipedia**

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Fig.11 Diagram of electromechanical energy conversion with inclusion of power losses 2.1 Field energy In both: motor and generator the field energy is converted either into electric or mechanical energy. In permanent magnet machine the magnetic flux is generated by the

#### 3410 Electric Power Electromechanical Energy Conversion - LSU

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