Where do electric motors output energy come from? The idea that electrical energy is transformed by an electric motor into mechanical energy is incorrect. A gross misapplication of related laws, augmented by a limited understanding of the theory of conservation of energy, has lead to the illusion. Kirchoff’s Current and Voltage Laws would be violated if the input electrical energy (potential difference) EMF was transferred to a motors output load. There are some apparent exceptions to Kirchoff’s Current and Voltage Laws that are produced effects like destructive interference from back EMF in inductive field mostly at high frequencies, in parts of some circuits. Careful observation shows Kirchoff’s Current and Voltage Laws are still at work when all factors are concerted. Thus is no possibility for electrical input energy to be transformed to external circuit loads and that there is no process stated of electrical energy transformation any where by anyone in history of how these processes are to take place. Why? Because there is no conversion taking place. Magnetic field is a free by produce of electric current, other examples are permanent magnets and superconductors. Any electric motor's, input energy would be reduced along the electrical circuit (if) the energy were being transfer out of the electric circuit to drive a load. Thus one would see a current drop in direct relation to the energy that were transferred, At 100% efficiency there would be no current returning to the source? The voltage drop is because of the direct work in the resistance of moving the electrons through the conductor. Electric motors takes advantage of the ability to electrically produce a changing a magnetic fields that produces a dynamic asymmetry, That is designed to produce a changing, or rotational field or to displace current by induction. Under standard conditions, (non resonance) the induction will be less than the source of the induction. This appears like equal input to output relationship, minus losses. In standard electric power application much of the heat energy that one would expect is canceled, by design. The electromotive force (voltage) from a input source, like an example a battery, applied as input to a circuit can only move current through the circuit’s resistance nothing else. So Kirchoff’s Current and Voltage Laws become the proof of electric power system are open systems with the ability to work above unity if the design were develop to do so.

This paper is a produce of my research of the Howard Johnson Permanent Magnetic Motor and shows that both magnetic motors and electric motors get there power from the same source, Spacetime as described in ECE theory.

Nicola Tesla said "Electricity without resonance is a wast of electricity."