

Will all future cars be electric? Can a potential shortage of Lithium cause GM to seriously investigate an alternative to batteries for the Chevrolet VOLT?

General Motors has released considerable detail concerning the VOLT. However, the need for better batteries continues to delay a firm production schedule. GM has announced plans to use Lithium-Ion batteries and recharge them from the power grid. Similar plans have been announced for several forthcoming "plug-in hybrids". Since much of the power supplied by the grid comes from burning coal and other fossil fuels, this approach raises substantial environmental questions.

Unlike the Toyota Prius and other hybrids, the VOLT will be an electric car with a fuel burning engine (or fuel-cell) only used for battery recharge. The car does not ever drive on fuel directly. Thus, it would seem a superb platform for a new drive system.

MPI Magnetic Power Modules™ can eliminate any need for fuel and will provide technology that might be used to dramatically improve the drive train. They could restore American companies to a leadership role in the automotive industry. MPI welcomes a hard look by the auto industry at this promising alternative to batteries.

Tesla, Ford and other auto manufacturers are also invited to seriously explore this revolutionary MPI science and technology.

MPI will describe, for potential partners, our plan to remove the plug from a plug-in hybrid and substitute a pair of 1 kW, solid-state Magnetic Power Modules. Preliminary data suggests each might measure no more than 5"x8"x12", the size of a 12 pack of soda or beer.

MPI also plans the rapid development of a revolutionary **MPI Traction Motor** which utilizes a radically new approach to motor design that could dramatically reduce the energy storage and power required.

These breakthroughs will allow a few off-the-shelf ultracapacitors to replace the substantial number of batteries otherwise required.

It should be noted that recent speculation suggests the world supply of Lithium may prove inadequate to support the announced plans of the automotive industry.

Finally, automakers could substitute one or more sufficiently large Magnetic Power Modules for a fuel burning engine or fuel-cell.

All future automobiles might employ variations of this fuel-free drive system.

Imagine the remarkable reduction in the need for fossil fuels and the boon to the auto industry and economy that might result from production of fuel-free cars.

Mark Goldes
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