

Through-the-Road (TTR) Hybrid Through-the-Roof Potential

Did you know...

President Obama set a goal to have 1 million plug-in hybrid vehicles (PHEVs) on the road by 2015.

Opportunity

As the demand for affordable and efficient PHEVs grows, so does the need to develop cost-effective PHEV technologies and components that are optimized for efficiency and performance.

Argonne's Solution

Argonne researchers needed a test platform for evaluating PHEV components, so they created the Through-the-Road (TTR) parallel hybrid electric vehicle. Argonne engineers accomplished this by transforming a Saturn Vue into an in-house PHEV development platform. The TTR allows researchers to run performance tests on a wide variety of PHEV technologies.



Argonne engineer Ted Bohn runs tests on the TTR.



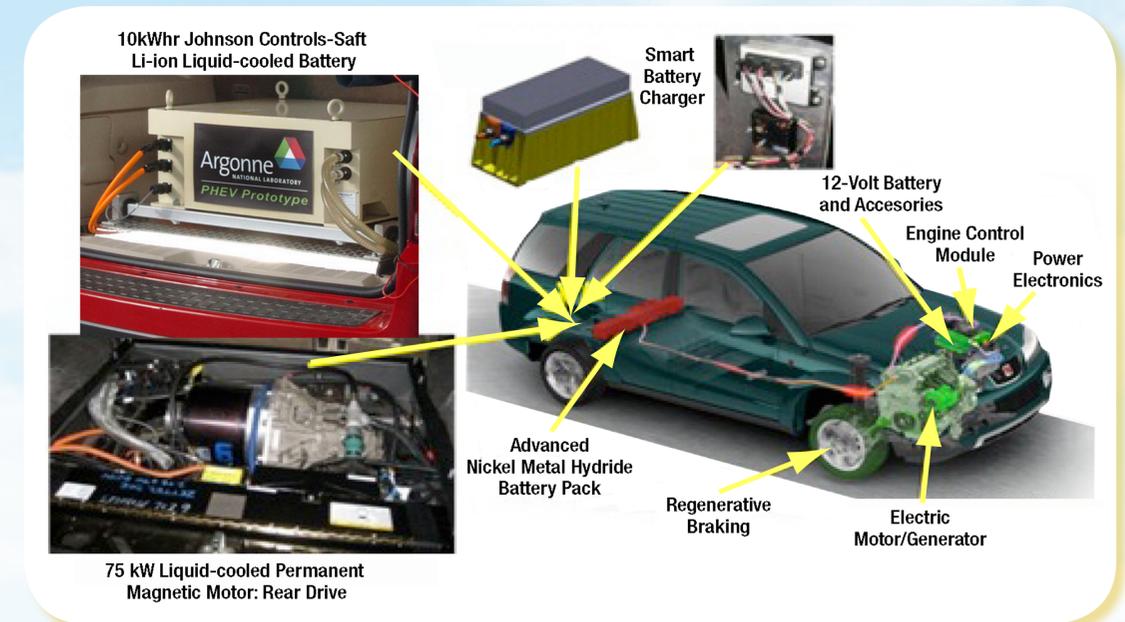
The TTR has axle torque sensors in the front and rear to measure power "through-the-road."

Potential Benefits

The TTR is used to test PHEV components and to develop test procedures for competitive evaluation of those technologies. The Argonne-developed control system allows the TTR to run as a hybrid or as an all-electric vehicle. This makes it possible to evaluate the impact of all-electric operation on battery requirements and overall vehicle performance.

Industry Partnership

The TTR was made possible by the General Motors' donation of a Saturn Vue.



This diagram shows some of the components of Argonne's TTR test vehicle.

Visit www.transportation.anl.gov to learn more!



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