

Gas-Optional Vehicles

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Austin City Council Resolution

Adopted July 29, 2004

“ . . . that the City Manager is directed

**to investigate the feasibility of the future integration
of the electric and transportation sectors, and its
impact on Austin Energy.”**



Electrification of the Transportation

**Sector is a step towards unification of
these two energy sectors.**



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The Perfect Storm

- Economics – cheap oil is running out
- Environmental – pressure to curb pollutants
from transportation
- National Security – pressure to curb
dependence on oil



Alternatives to Petroleum

1. Energy Efficiency
2. Alternative Fuels
3. Hydrogen
4. Electricity



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Electricity Advantages

- Cost
- Infrastructure
- Multiple Fuels
- Emissions
- Renewable Energy



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FLASH ANIMATION TEXT:

At a West Texas wind farm...

As night falls...

...the wind speed increases.

Wind energy travels through the grid.

Meanwhile, at a home in Austin...

...a hybrid vehicle charges overnight.

Morning comes...and the vehicle...

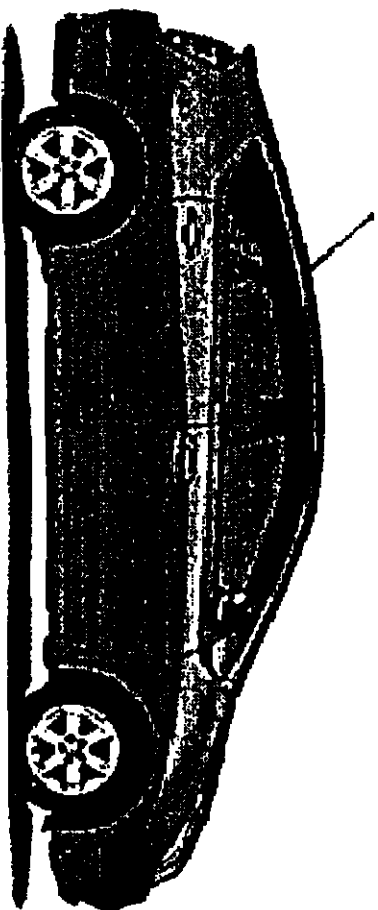
Drives on the Wind!

**How do we
electrify
the
Transportation System?**

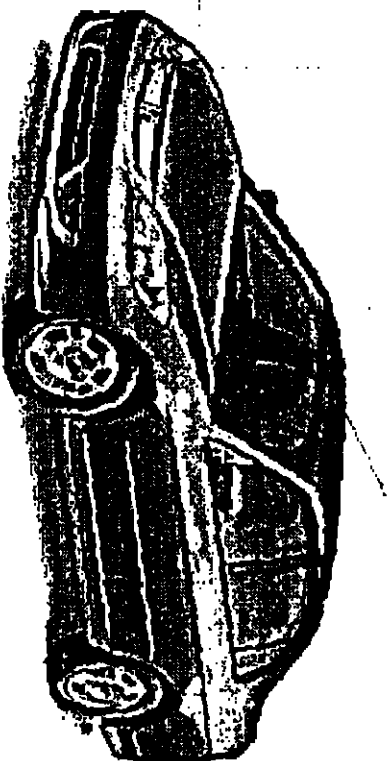


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Hybrids



Toyota Prius



Honda Civic



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Plug-In Hybrids

- Plug-in hybrid vehicles are electric-drive hybrid vehicles with an all electric operating range.

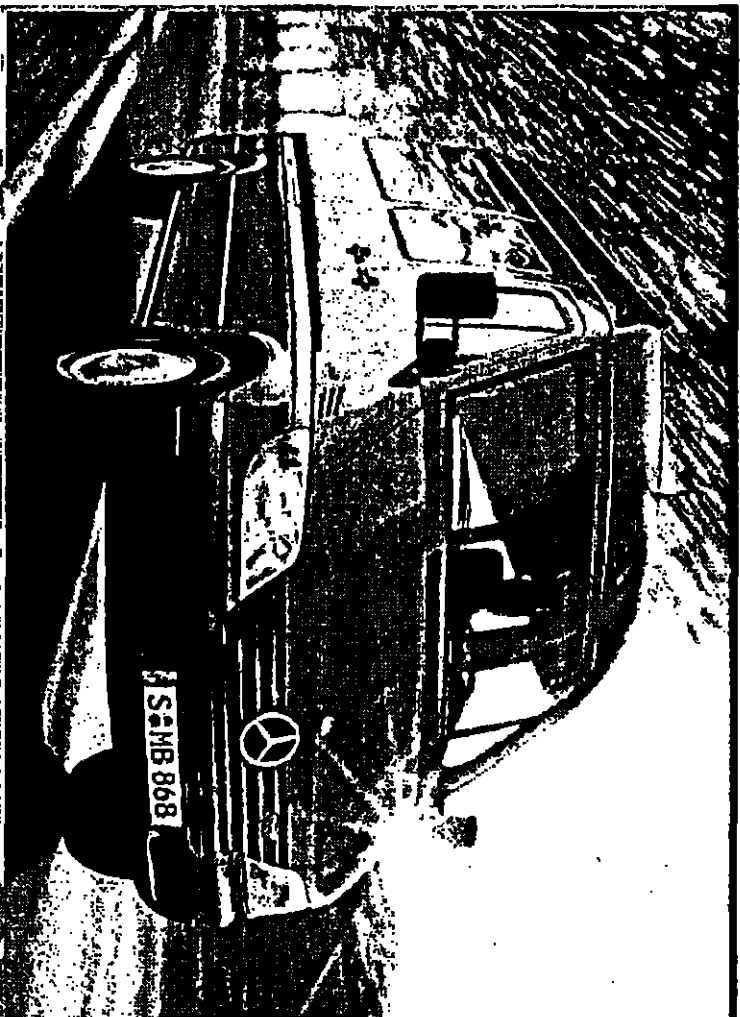
They combine batteries and internal combustion engines in an efficient manner.

- Plug-in hybrids can be fueled through an electric wall outlet or at the gas station.

- They are more gas-efficient than hybrids.



Plug-In HEV Sprinter Van



- 20-mile electric range on grid electricity
- Up to 40% reduction in fuel consumption
- Better acceleration than stock Sprinter
- 15 kWh Lithium Ion advanced battery
- 120 hp electric motor (up to 280 hp peak)

- EPRl and DaimlerChrysler have established a strong collaborative partnership
 - DaimlerChrysler announced production version of PHEV Sprinter at Hanover Truck Show in September 2004
 - Next Steps—30 vehicle test program, 100 vehicle fleet demo
- EPRl**

Recommendation

Create a market for

Flexible-fuel plug-in hybrid

vehicles – a true

Gas-Optional Vehicle



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Austin Incentive Plan

- Austin rebates and advance orders for gas-optional vehicles
- Support policies to promote gas-optional vehicles
- Promote electric fueling of transportation



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