

Austin's Energy Leadership

*A Case Study in More Sustainable Energy for
Electricity and Transportation Services*

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Distributed Energy Services

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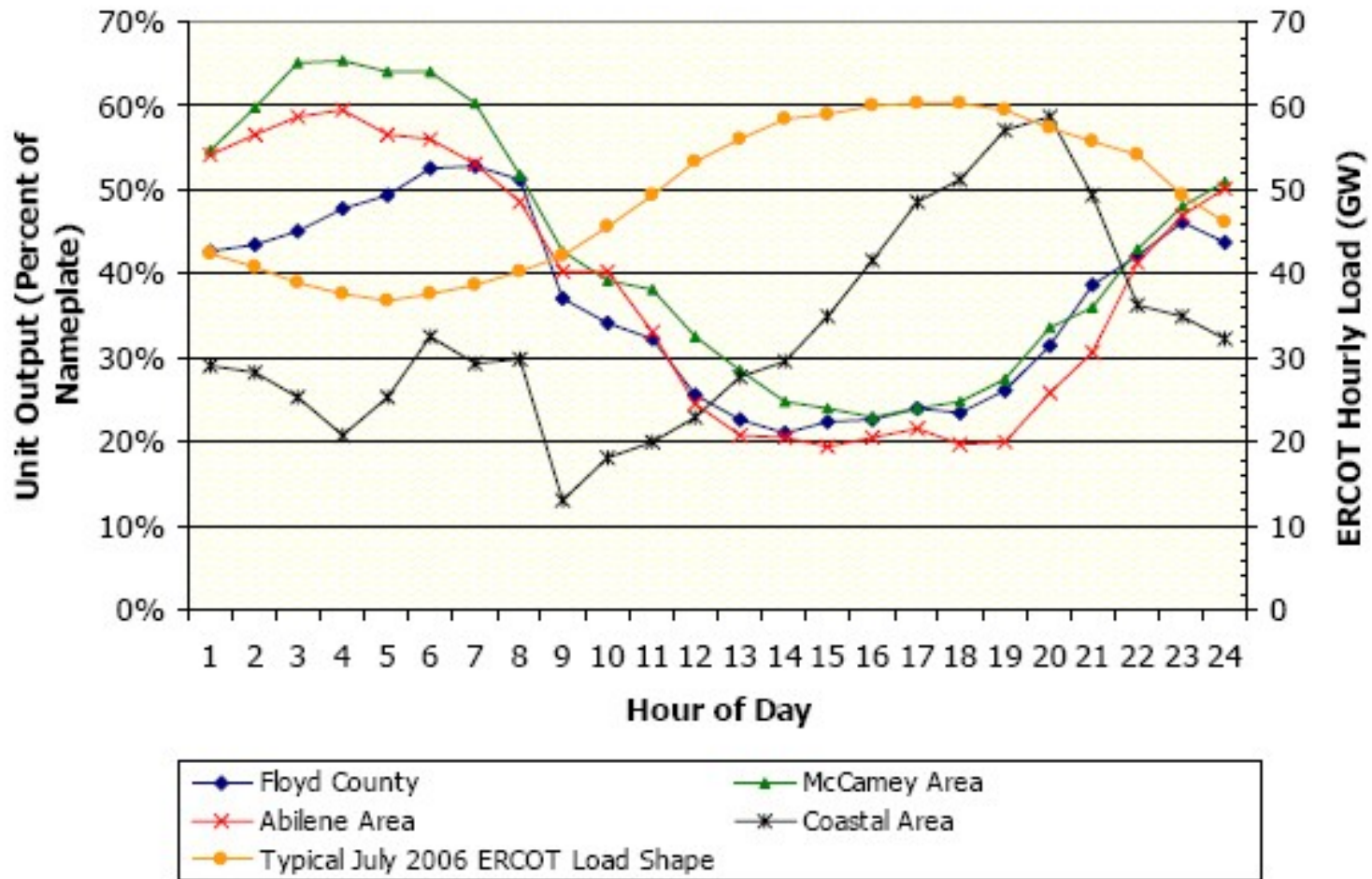
Elements of a Vision

***A Built Environment and Transportation Sector
Responsibly Powered
by Clean, Efficient, and Increasingly
Renewable Electrical Energy***

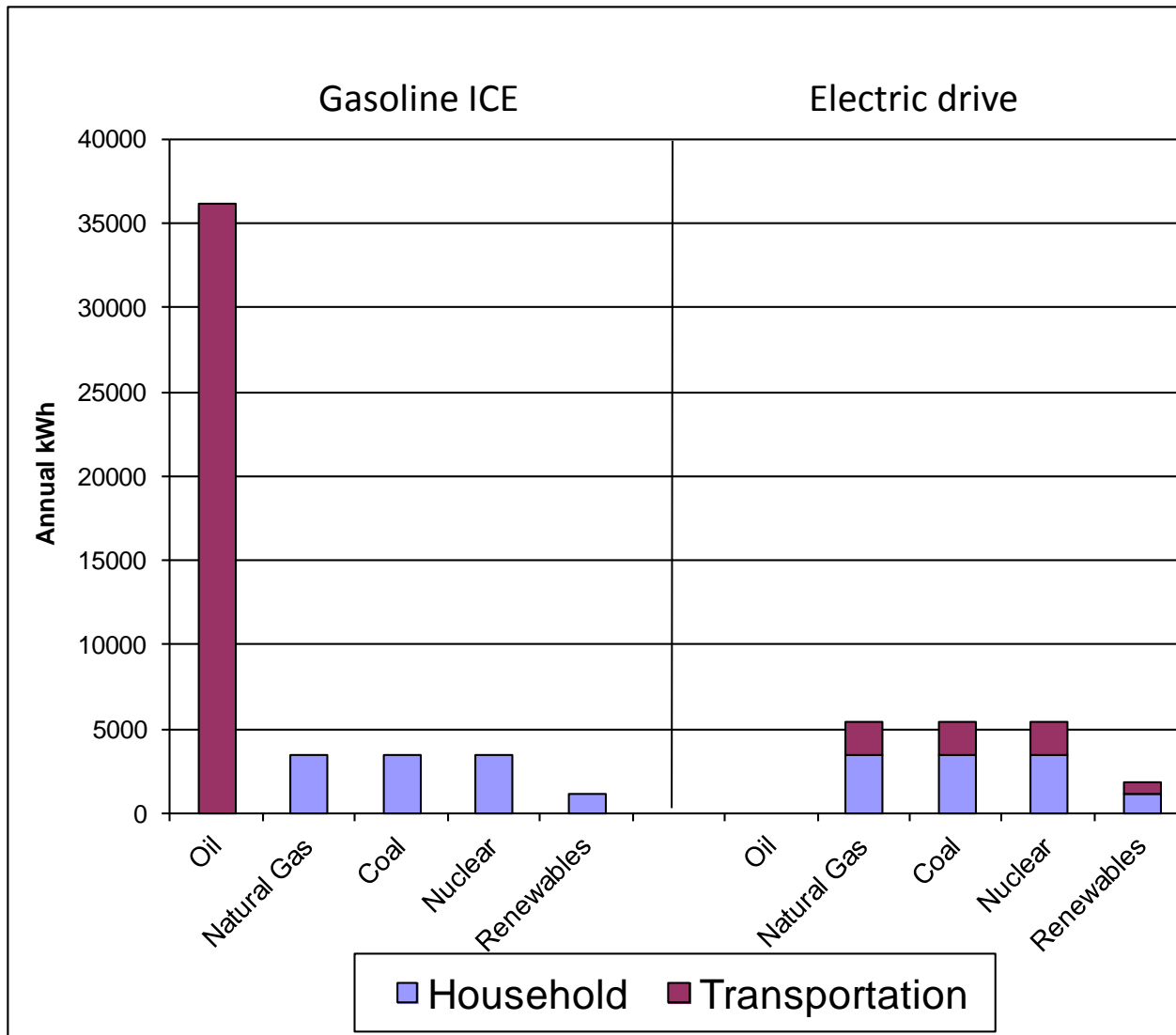
***and Providing Customers with a Growing Menu
of Services and Options to Enable Them to
Maximize the Value Derived from Energy
Services***

Demand/Wind Supply Mismatch

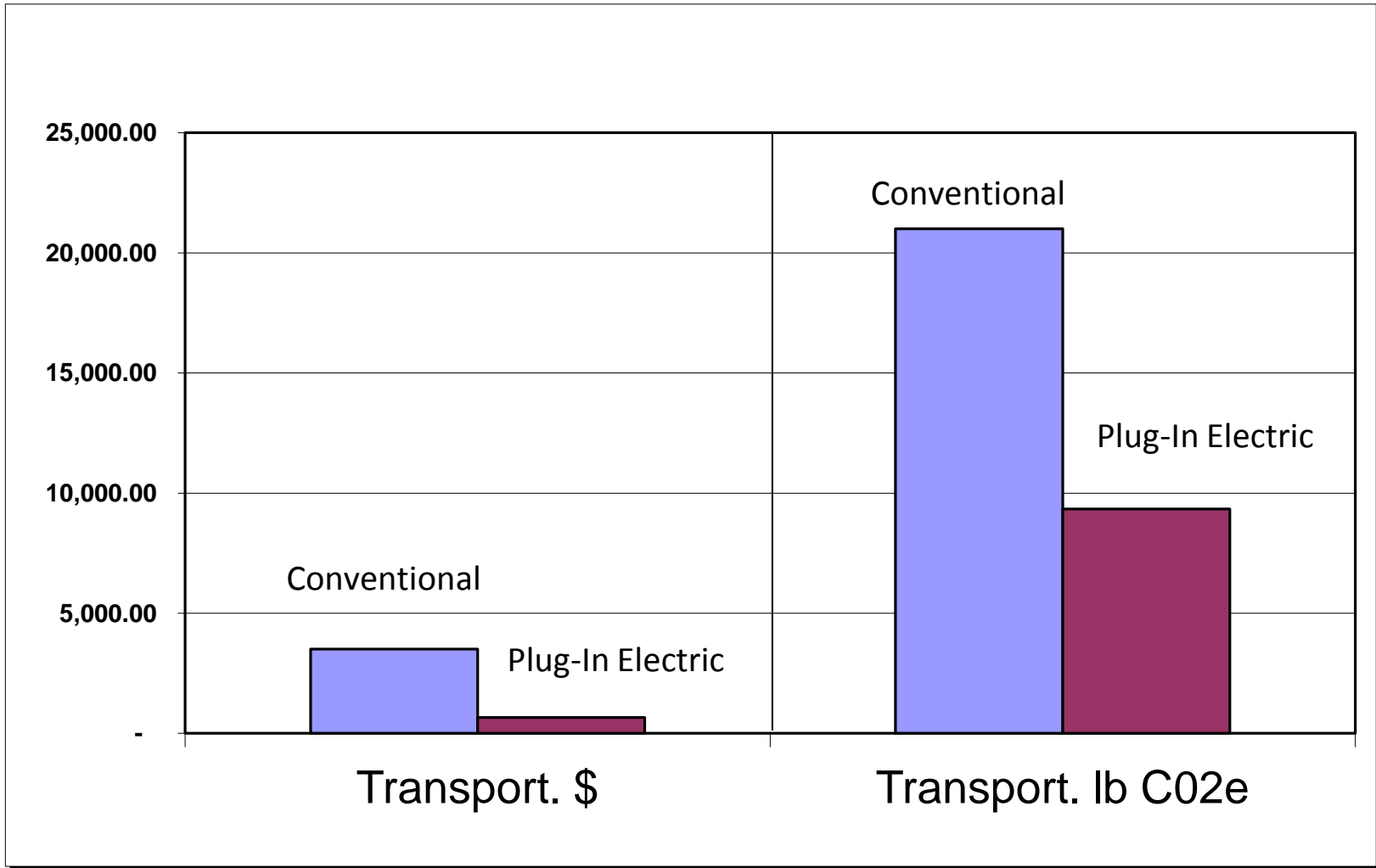
Average Hourly Capacity Factors for July



Energy Savings from Going Electric

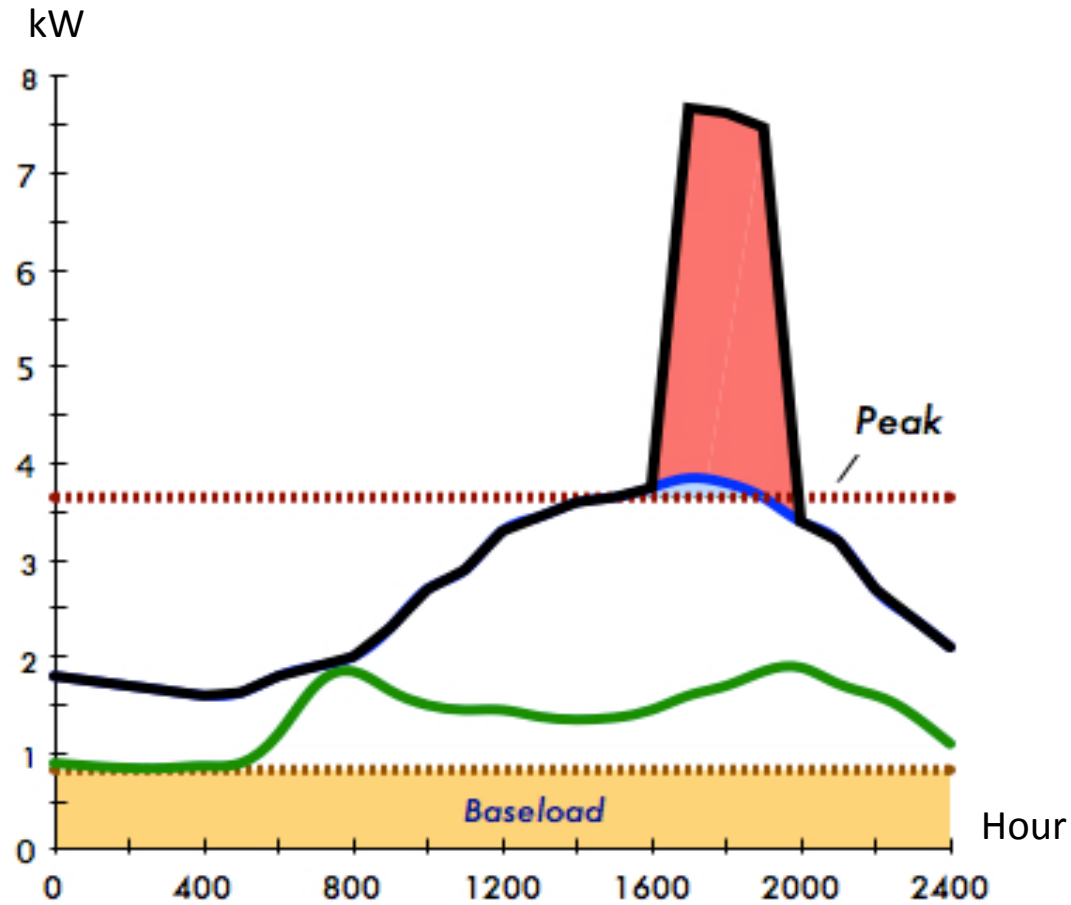


Transportation Fuel Costs and Emissions



“Dumb Charging” at Home

The T & D Utility is the Entity with Responsibility for Safety, Reliability, Operational Security, and Fair Allocation of Infrastructure Costs



Immediate EV System Objective

***For Safety, Reliability, Security,
and Cost-Allocation,
The Utility Must Be Able
to Detect and Manage
State and Rate of Charge***

***(Any time and any place the vehicle
connects to the grid.)***

Which Tool to Become EV-Ready?

(Hint: No One is Sufficient)

- Pricing (e.g., time-of-use, demand charge)
- Stationary Storage
- Charge Control
- Solar Electricity
- Work-place Charging
- Technological Improvements
 - HyperCars
 - Power Density

Plus: Smart Grid, Green Building, Energy Efficiency, etc.

Needs and Solutions

Need: *More Efficiency*

Solution: *Smart Grid, Smart Buildings*

Need: *Vehicle Charge Management*

Solution: *Smart Cars, EV-Ready Grid (including work-place charging)*

Need: *More Renewable Energy*

Solution: *Fill Our EVs with Sunshine during the day and Wind at Night*

Charging Infrastructure Programs

Plug-In EVerywhere

Public Charging Program

Soon – 100% Green-e RE



Plug-In Partners
Home Rebate Program