The Smart Grid Can Deliver
Market
$
MW
BENEFITS
• Enhanced energy security
• Reduced greenhouse gases
• Improved urban air quality
• Increased grid asset utilization
"Valley Filling"
(Energy for PHEVs)
kW
0
12
24
12
24
hours of day
PHEV
CO2 Emissions
Urban Emissions
Electricity Sales
Infrastructure Requirements
Utility Rates
Pacific Northwest National Laboratory