



Fresh Energy

2040 Framework Recommendations

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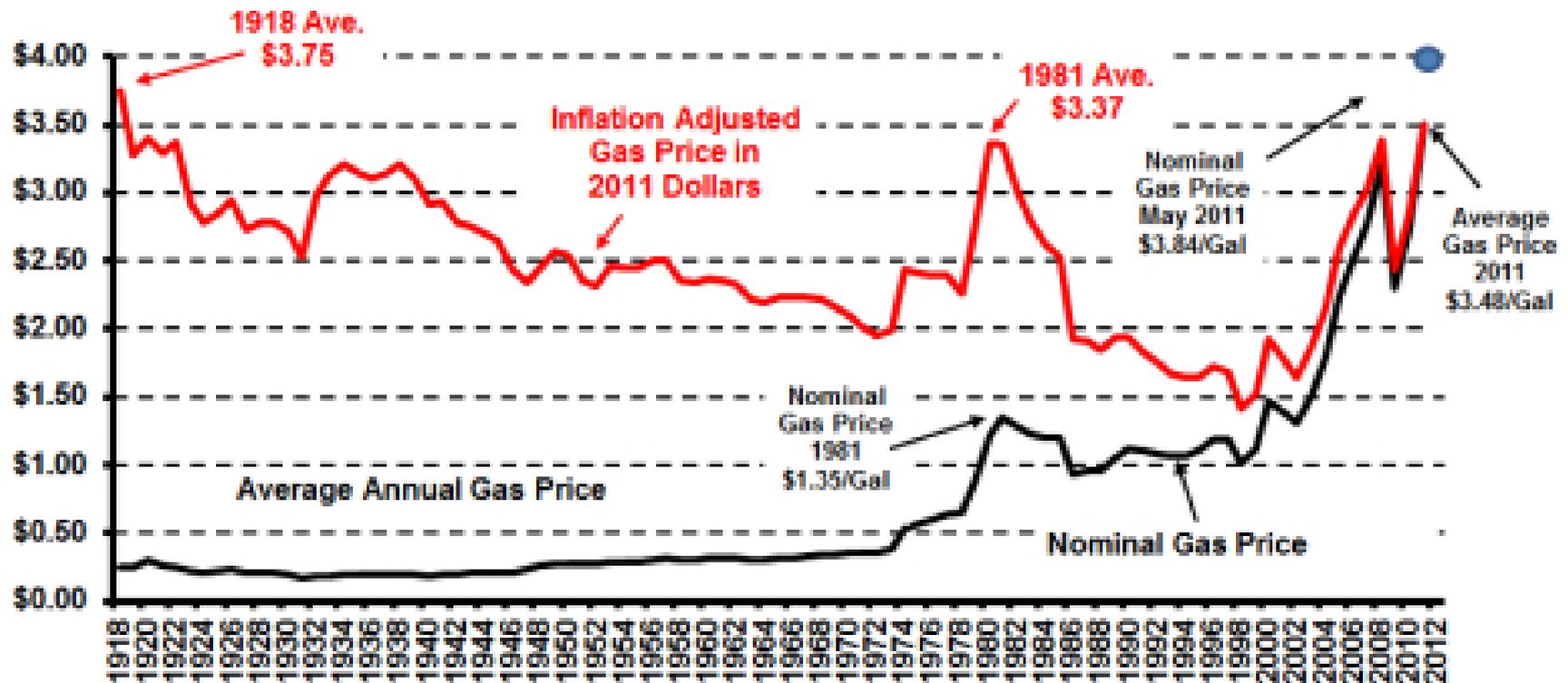
March 21, 2012



Key Recommendation 1: Meaningfully Consider Energy



2011 gas prices highest since 1918



Note: Prices are Average Annual prices not Peak Prices so peaks are smoothed out considerably

Source of Data: US Energy Information Administration
CPI-U Inflation index- www.bls.gov

Uncertain future for gas prices, but volatility and increases likely

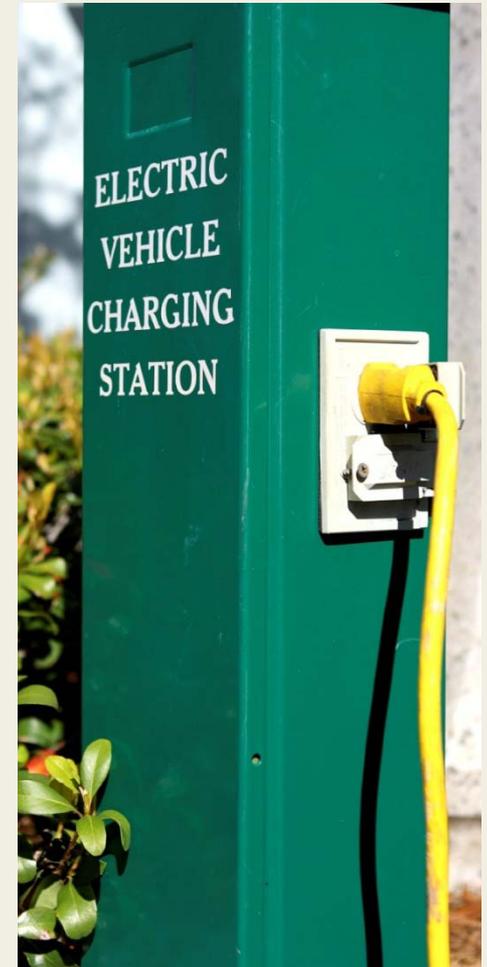
Figure 5. Average annual world oil prices in three cases, 1980-2035 (real 2010 dollars per barrel)



Source: U.S. Energy Information Administration (the agency tasked with forecasting energy trends)

And energy isn't just oil

- Minnesota's Greenhouse Gas Emissions Reduction Goals
 - 15 percent below 2005 levels by 2015
 - 30 percent below 2005 levels by 2030
 - 80 percent below 2005 levels by 2050
- Climate change impacts
- Local air pollution and threat of nonattainment
- Energy efficiency in housing
- Electric vehicles

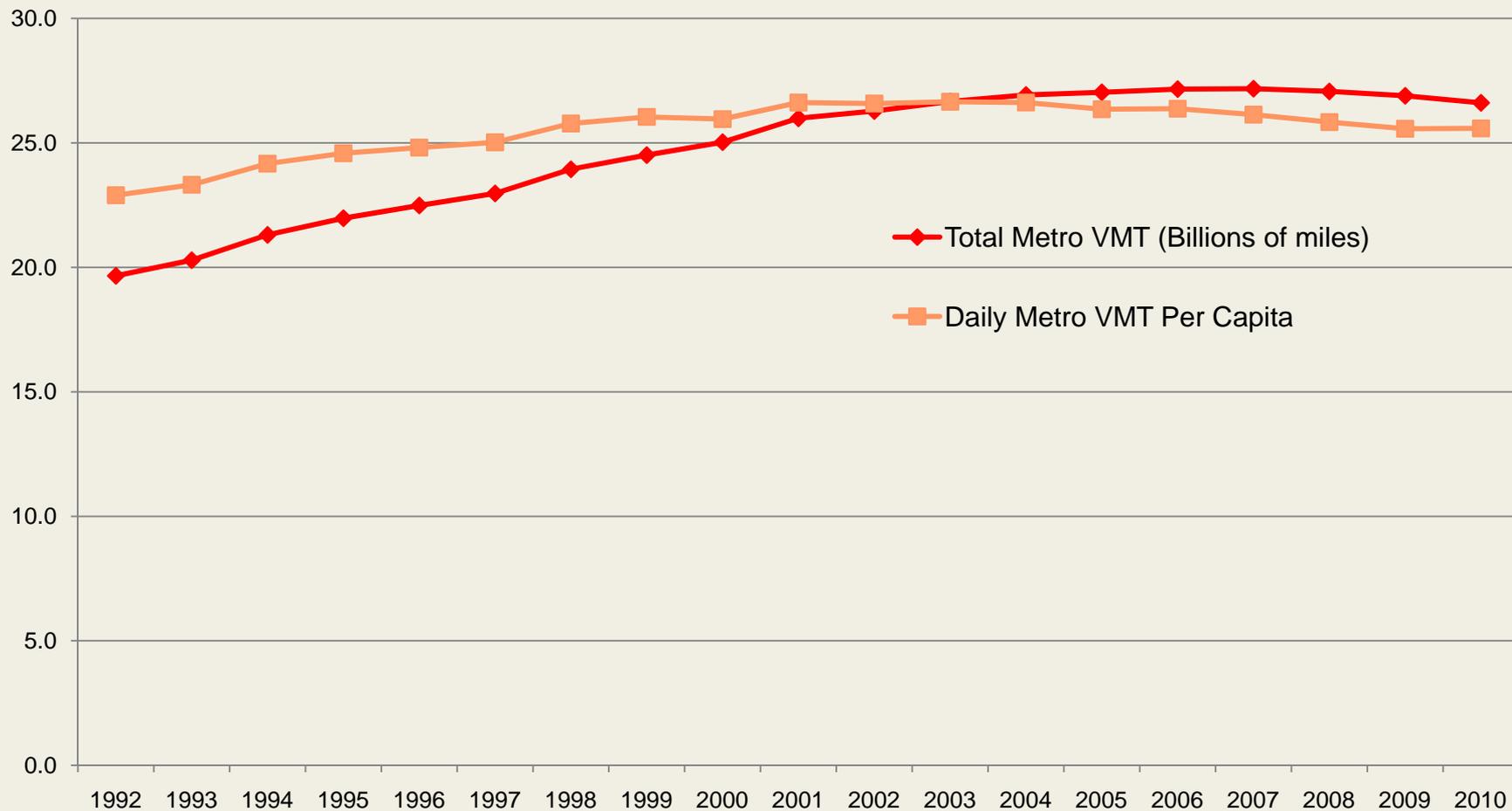


Key Recommendation 2: Tie Metrics to Decision Making

Regional Benchmarks → \$



People are driving less



Source: Mn/DOT; MN State Demographer; U.S. Census

Additional recommendations

- Make policy-based growth allocations
- Focus investment in key growth areas
- Break down barriers between the Systems
- Implement a meaningful regional Complete Streets policy
- Provide more info on long-term infrastructure cost burden
- Lots of public engagement is essential to build support for implementation



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