

Can Addressing Climate Change Provide Economic Benefits?

A least cost approach that maximizes energy efficiency gains is a win-win for consumers and the environment

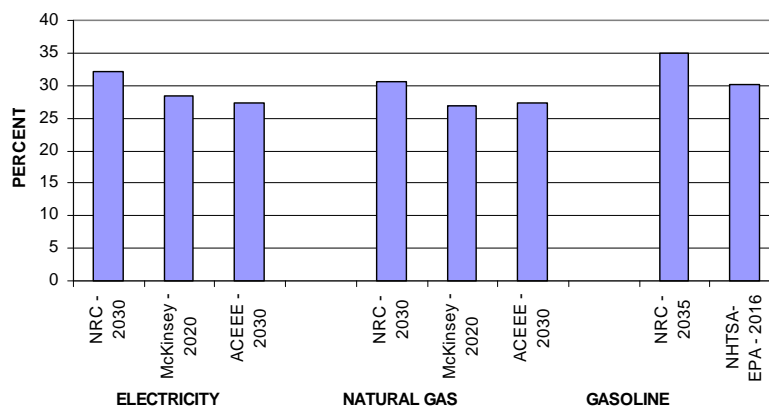
Mark Cooper

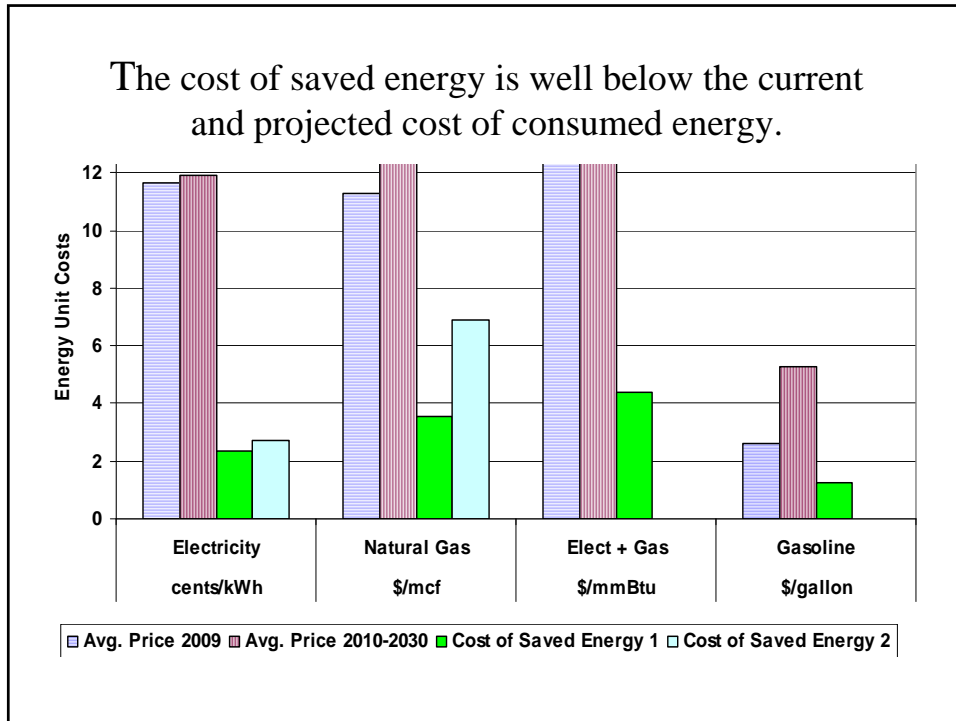
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November 6, 2009

Technically Feasible, Economically Optimal Potential





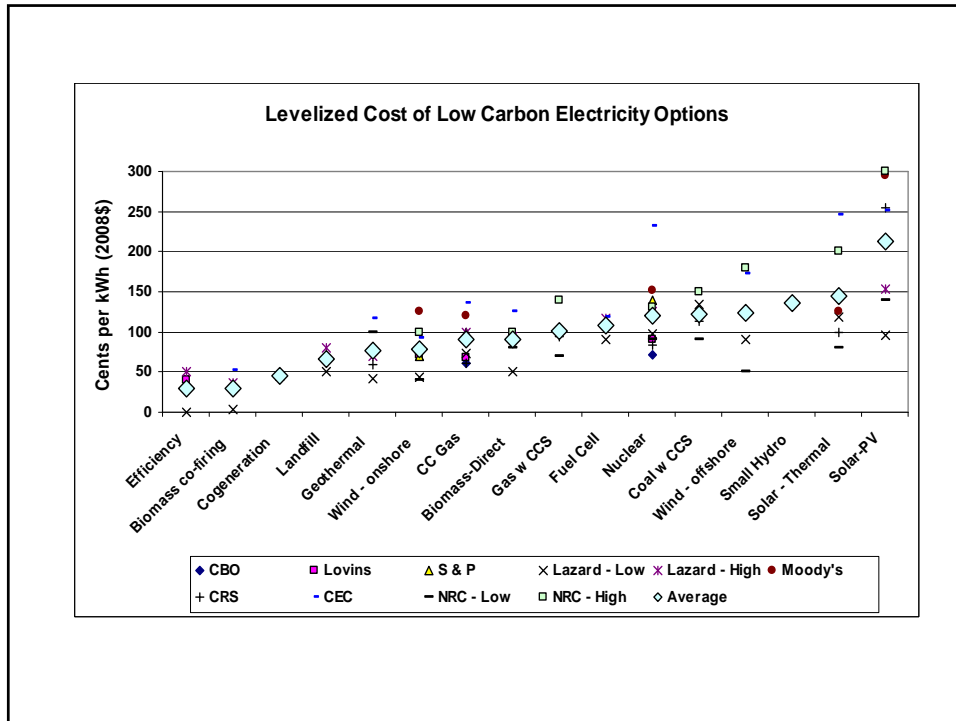
Capturing the full measure of efficiency available at these costs produces well over \$1,000,000,000,000 in net present value savings and

provides almost 2/3 of the HR2454 target reduction in CO2 emissions for 2030 (almost 3/4 if the saved natural gas is used to back out coal-fired generation).

Fuel economy in the vehicle fleet achieves similar levels of reduction.

Efficiency is a win-win for consumers and the environment.

This is a massive market failure.



Sensible policy would ensure that we capture the full potential of efficiency and low cost renewables in the short and mid-terms, buying a couple of decades to do the research necessary to meet long-term energy needs in a carbon constrained environment.

The candidates for the post 2030 world are:

- (1) more efficiency (including lifestyle changes)
- (2) another generation of renewables
- (3) energy storage
- (4) carbon capture
- (5) nuclear