

New Reply Delete Archive Junk Sweep Diminute

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136,000 new jobs

Folders



Mark Udall (info@udallforcolorado.com) Sched

Liquid Ima
Hd Digital
727 Black

Inbox 4

\$179⁹⁵

Junk 2

Thor Slam
Casual Mc
Offroad

Drafts 5

\$39⁹⁵

Sent

Fox Racing
Backpack I

Deleted 6

\$44⁹⁹

NFIB and NCLA, etc.-S...

Hi David,



Advocating for policies that spur job creation has been priority number one for me since Coloradans elected me to the U.S. Senate.

Quick views

That's why I'm joining colleagues on both sides of the aisle to support energy efficiency legislation that would create 136,000 new jobs and reduce our country's wasteful energy practices.

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This is a commonsense step forward, but some far right-wing Republican obstructionists are gearing up to try and stop it at any cost. I need your help to stop them.

AdChoices

Please join my colleagues Senators Chris Coons, Kirsten Gillibrand, Mark Pryor, Brian Schatz, Jeanne Shaheen, Mark Warner, and myself to call on Congress to pass the Shaheen-Portman energy efficiency bill without delay.

According to a new study, the United States wastes about 86% of its energy. This means a waste of money, a higher demand for foreign oil, and intensified global warming.

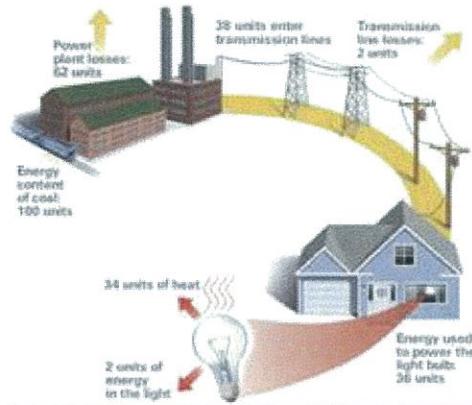
But by using modern tools in buildings new and old, we can reduce the waste, increase productivity and competitiveness — all while creating hundreds of thousands of new jobs and saving Americans nearly \$14 billion a year. That's pure common sense.

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Energy Losses from Fuel to Light Output

The figure from a recent **Forbes** article is provided below:



The values shown are reasonable from the perspective of heat value in the coal transferred to useful light energy via an incandescent lamp.

Values specific to the Platte River/Municipal system (coal generation) are approximately as follows:

Plant losses – 66 units (approximately 34% thermal efficiency)

Transmission losses – 2 units

Distribution losses – 3 units

About 29% of the energy in the coal at the plant reaches the average retail customer. There are also losses from the coal mining and transportation – and sometimes these factors are included in energy accounting.

A combined cycle gas unit would have a thermal efficiency of close to 50% due to the thermodynamics of gas/steam turbine combined vs. a standard steam system. This is a significant improvement, but still 50% of the heat is lost.

On the end use side, incandescent lighting is very inefficient, since most of the energy becomes heat to the space, rather than useful light. The value of 6% useful light (2 of 36) and 94% heat shown is reasonable for this old technology. CFLs and LEDs are much better and are replacing most of the incandescent lamps as technology moves forward. Other new technologies continue to evolve that could make more electricity (or useful products/services) available from less raw energy.