



**GovEnergy**

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# A River of Energy Solutions

Solutia Performance Films

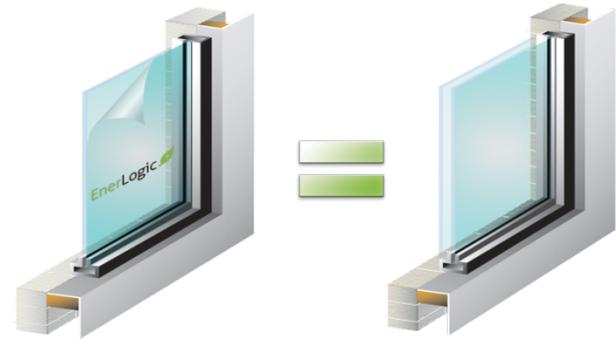
*Unleash the Power of EnerLogic Window Films*

GovEnergy 2011 – August 8

# EnerLogic Window Film

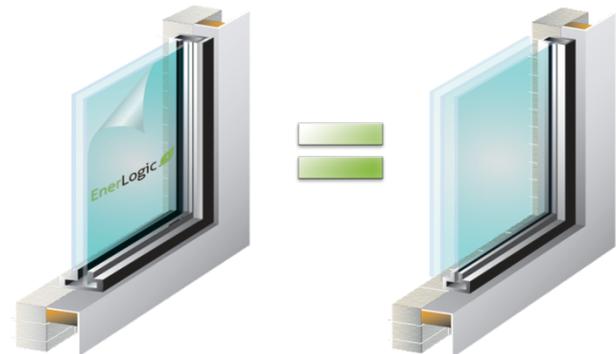
More cost effective than window replacement

Gives single pane windows  
the annual insulating  
performance of double  
pane windows



Single pane windows plus EnerLogic  
= Double pane windows.

Gives double pane windows  
triple pane performance



Double pane windows plus EnerLogic  
= Triple pane windows.

A fraction of the cost of  
window replacement

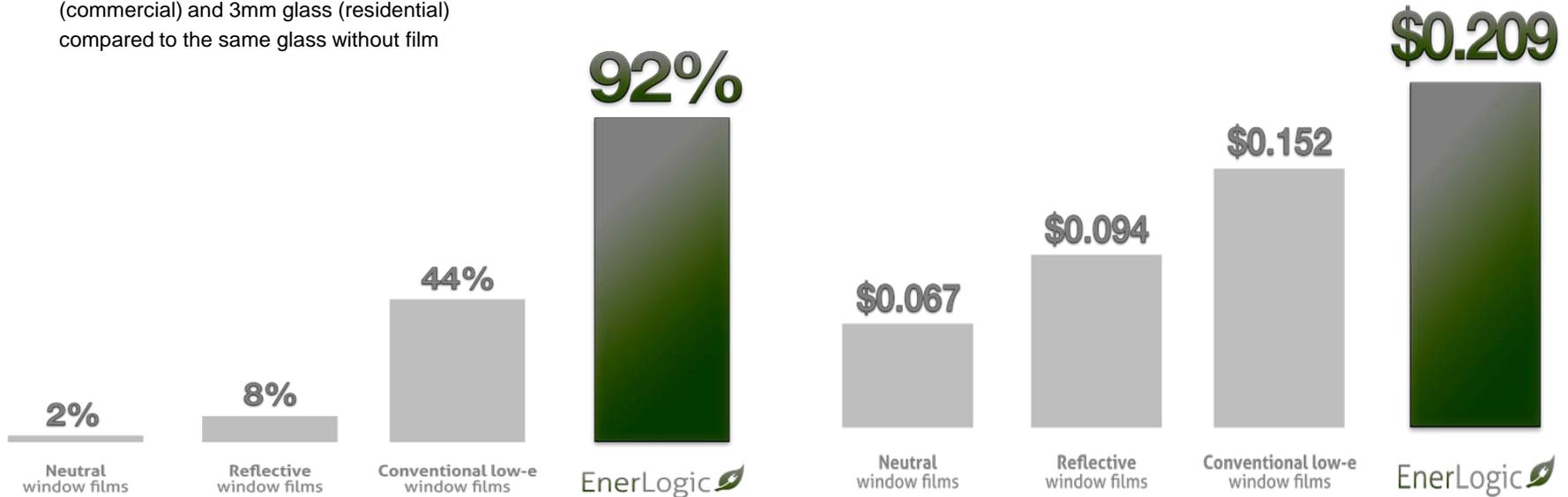
# Best year round insulating performance and energy savings

- Delivers 92% more insulating performance\*
- Significantly outperforms other low-e film technology

Based on percentage improvement in average annual insulating properties with 6mm glass (commercial) and 3mm glass (residential) compared to the same glass without film

EnerLogic 35 can save up \$0.21/sf on large commercial buildings

- 37% more than other low-e films
- 2-3x than other neutral and reflective films



# Excellent ROI and payback (large commercial buildings)



EnerLogic 35 pays itself back faster than HVAC and control system upgrades, insulation, and air sealing.

# Compatible with high efficiency lighting

Conventional low-e films  
experience iridescence  
(rainbow effect)

Exacerbated by high  
efficiency lighting

EnerLogic minimizes the  
rainbow effect



Conventional  
low e film

**EnerLogic**<sup>™</sup> 

# Claims Made – VEP35

- Emissivity 0.07

Based on:

- Testing of all performance parameters by NFRC-Certified, Independent Test Lab





# LOW-E IS IMPORTANT

Other film manufacturers not rushing to offer low-e films, why not?

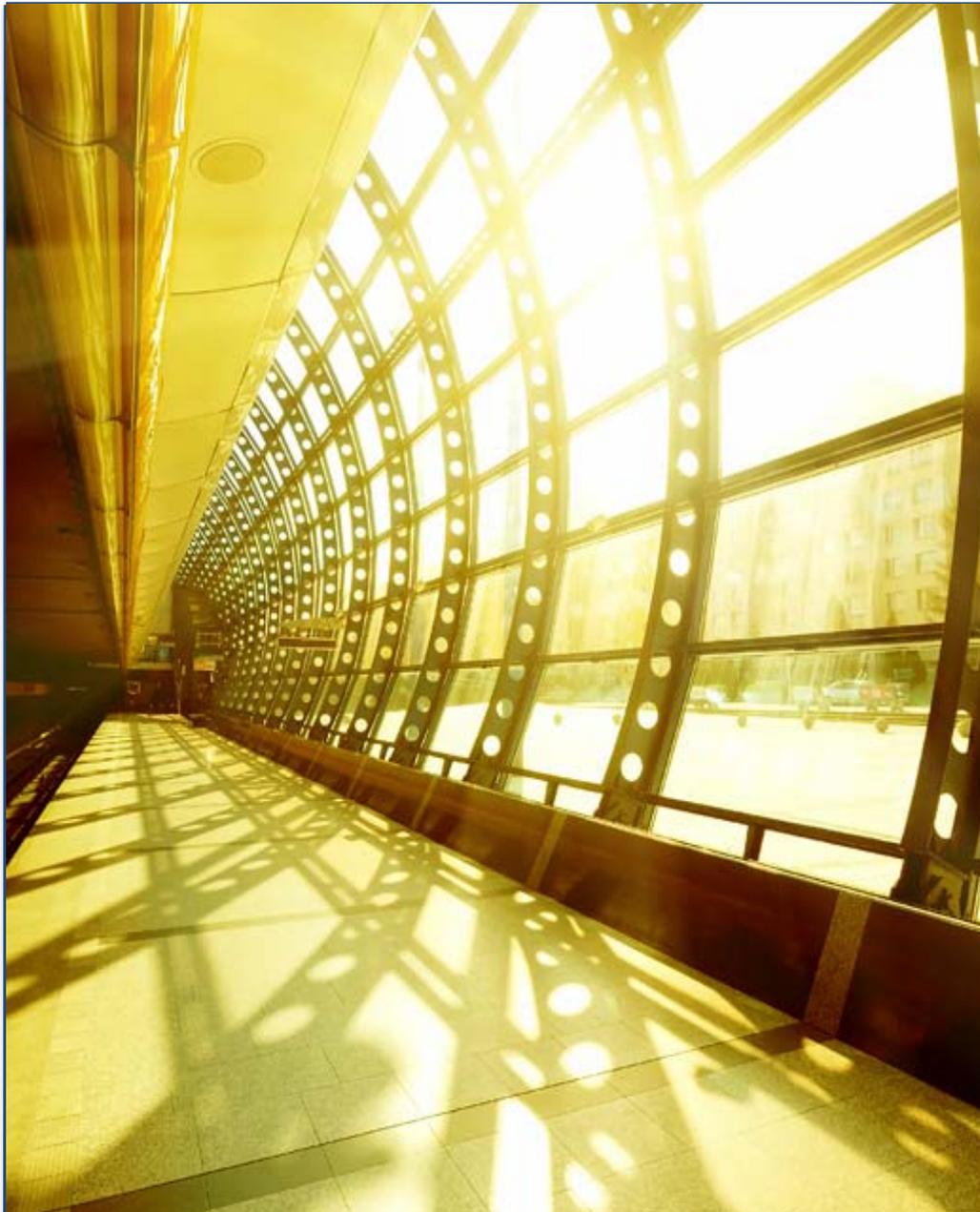
- If they could they would
- Key differences - Solutia's foresight and superior technology
- 0.09 or less emissivity, extraordinary breakthrough (patent-pending)
- Creating a low-e film (VEP70) that is virtually clear & non-reflective even more impressive!
- Breakthroughs not likely to be repeated anytime soon



# LOW-E IS IMPORTANT

Low-e films are used to reduce heat loss in winter, right? So why do I need a low-e film in a warm climate?

- Again, low-e films improve window insulating performance in **ALL** seasons = year-round savings
- Heating and added cooling savings
- EnerLogic provides up to 33% more cooling savings than other comparable VLT, non-low-e films



# LOW-E IS IMPORTANT

If we have a 0.07 emissivity film, shouldn't the U-value be almost 0, if the emissivity is almost 0?

- Low-emissivity reduces RADIANT heat loss in winter and RADIANT heat gain in summer
- Heat loss (or non-solar gain) due to conduction and convection not greatly affected by emissivity
- Radiant heat accounts for about 45% of the total non-solar heat loss/gain through a window

Solutia Performance Films

**Booth**

**1433**