Your Guide to Selecting ENERGY STAR®

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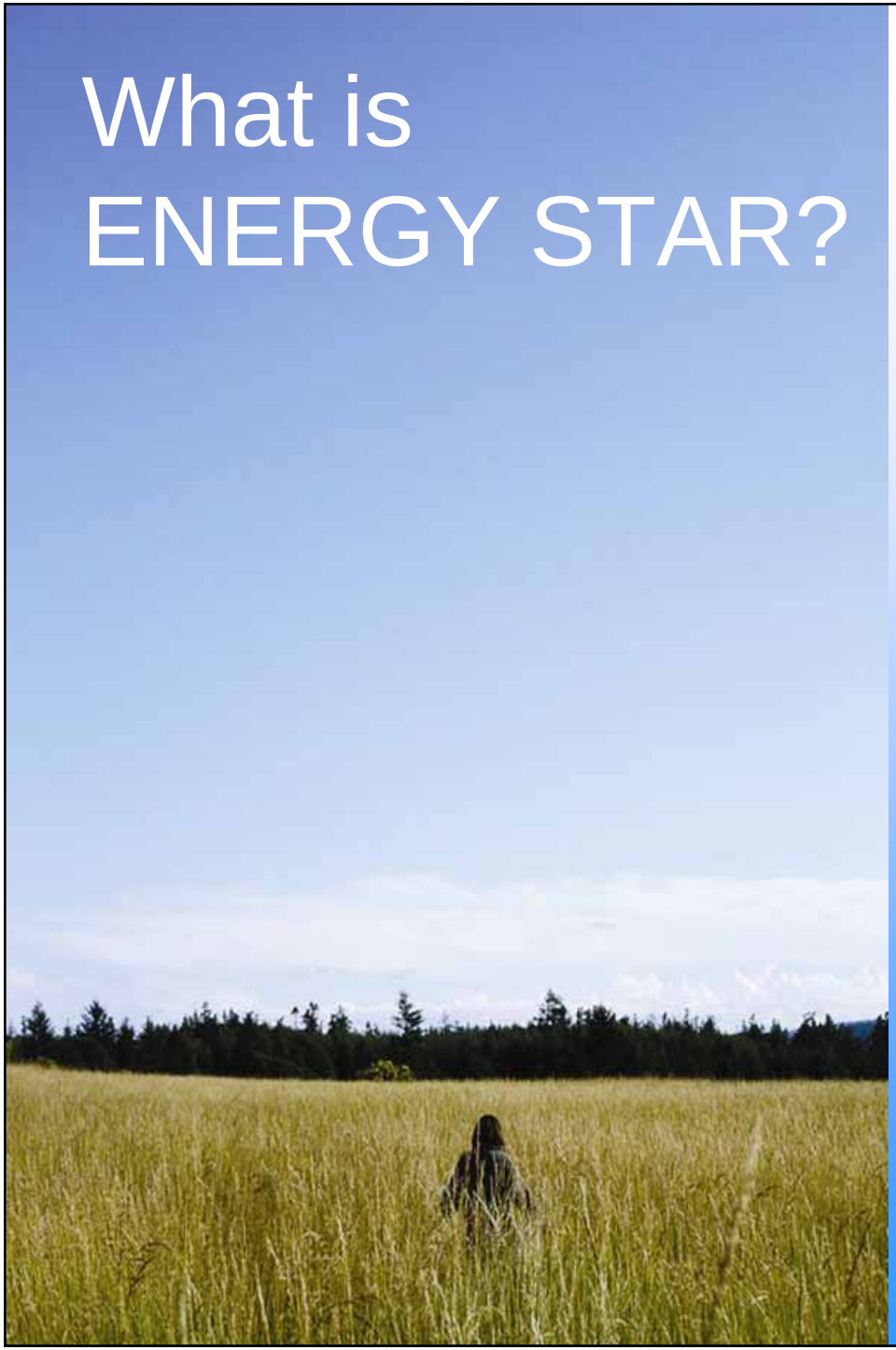
WINDOWS and DOORS

Presented by: Thermal Industries, Inc.
A Division of Atrium

What is ENERGY STAR?



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ENERGY STAR is a government-backed program to help consumers identify energy efficient products, like windows and doors.

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- Energy savings to avoid greenhouse gas emissions equal to 29 million cars!

- $19 Billion in **savings** on utility bills

ENERGY STAR Qualification Criteria

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ENERGY STAR® Qualification Criteria for Residential Windows, Doors, and Skylights

Windows

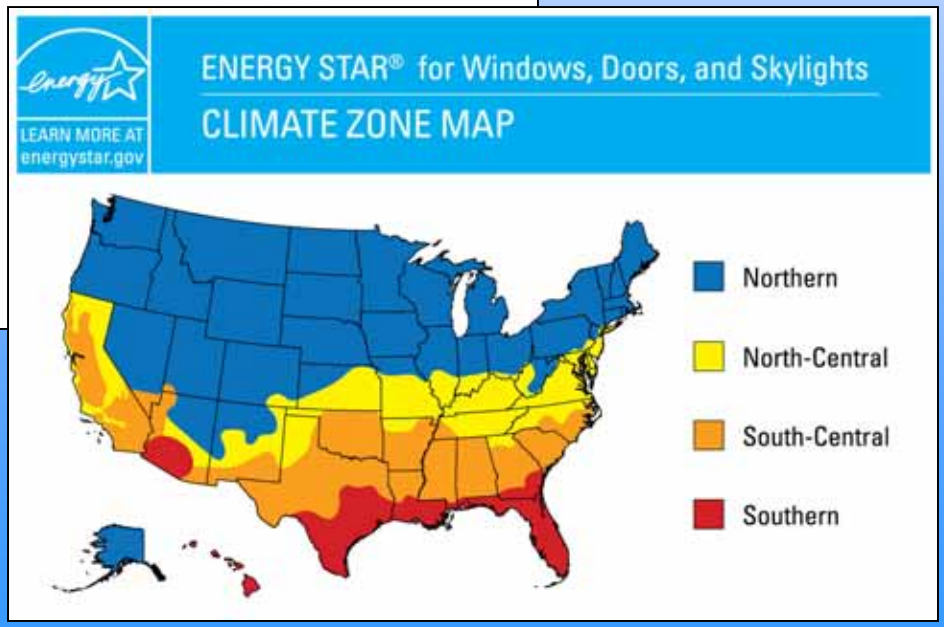
Climate Zone	U-Factor[1]	SHGC[2]	
Northern	≤ 0.30	Any	Prescriptive
	=0.31	≥ 0.35	Equivalent Energy Performance
	=0.32	≥ 0.40	
North-Central	≤ 0.32	≤ 0.40	
South-Central	≤ 0.35	≤ 0.30	
Southern	≤ 0.60	≤ 0.27	

[1] *Btu/h-ft²-°F*

[2] *Fraction of incident solar radiation*

Doors

Glazing Level	U-Factor[1]	SHGC[2]
Opaque	≤ 0.21	No Rating
≤ ½-Lite	≤ 0.27	≤ 0.30
> ½-Lite	≤ 0.32	≤ 0.30



Performance Measures for ENERGY STAR Windows and Doors

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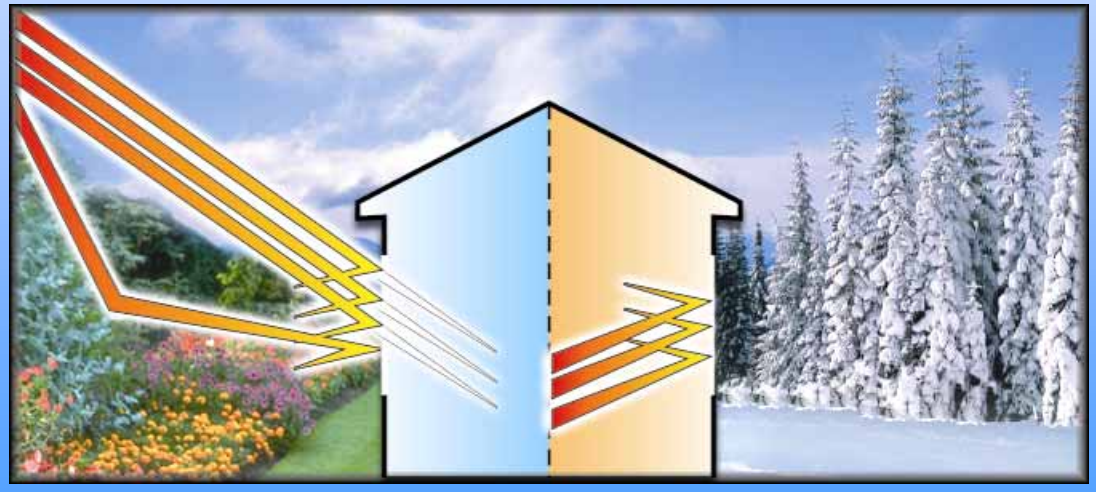
- U-Factor:
  - Measures heat transfer through the window
  - Tells you how well window insulates
  - The lower the U-Factor, the better the window insulates



U-Factor demonstrated on right side of home

Performance Measures for ENERGY STAR Windows and Doors

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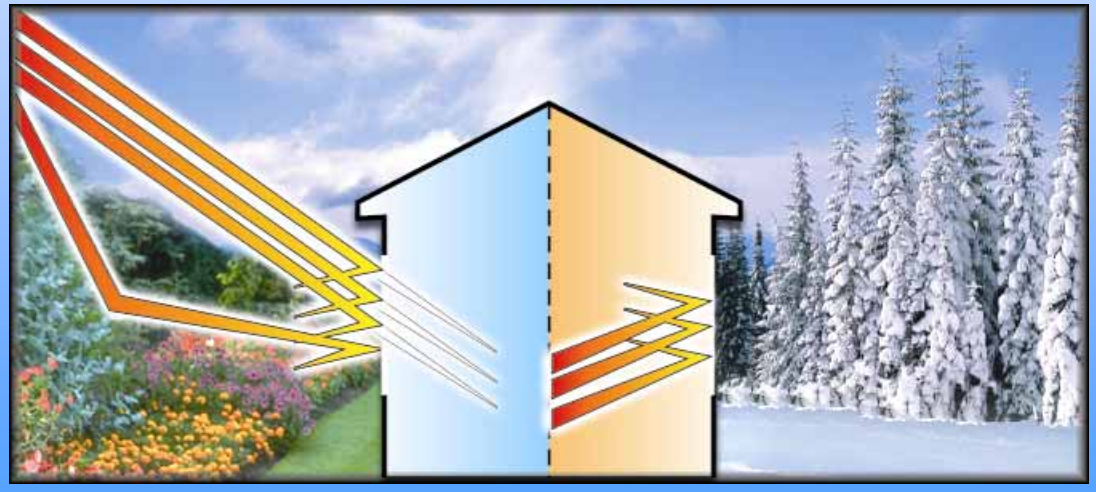
- SHGC (Solar Heat Gain Coefficient):
  - Measures the solar heat admitted
  - Tells you how well the product blocks heat caused by sunlight
  - The lower the SHGC, the better the window blocks heat



SHGC demonstrated on left side of home

ENERGY STAR Label

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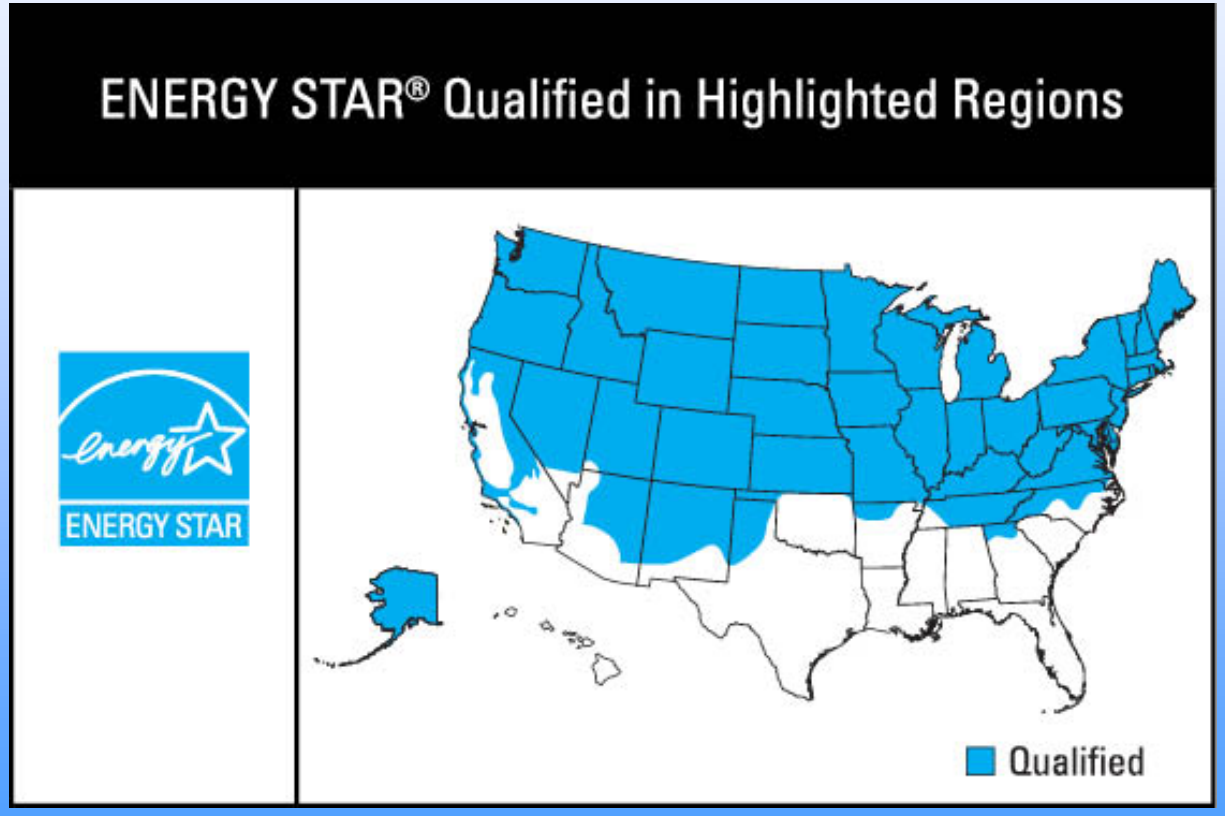

ENERGY STAR Label

NFRC Label

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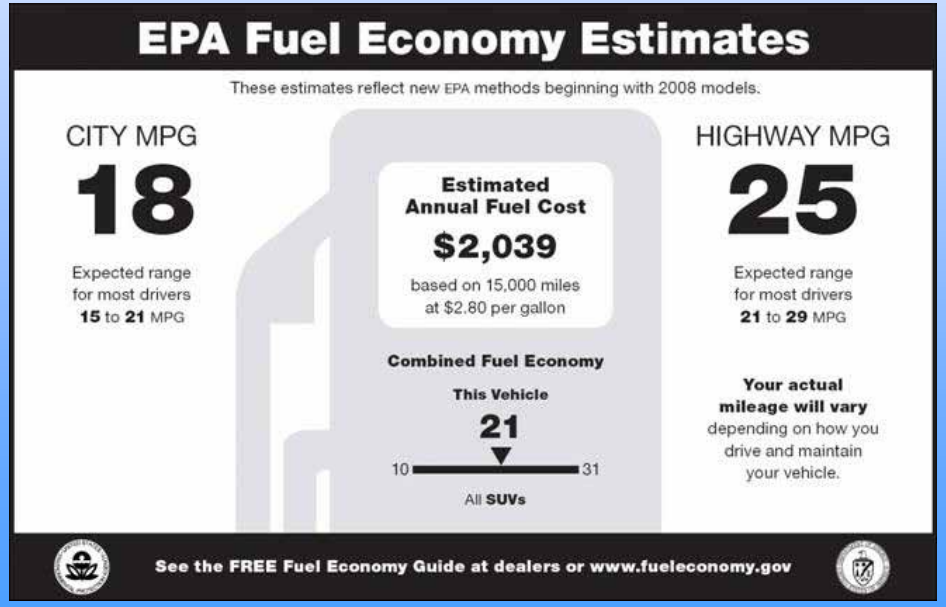
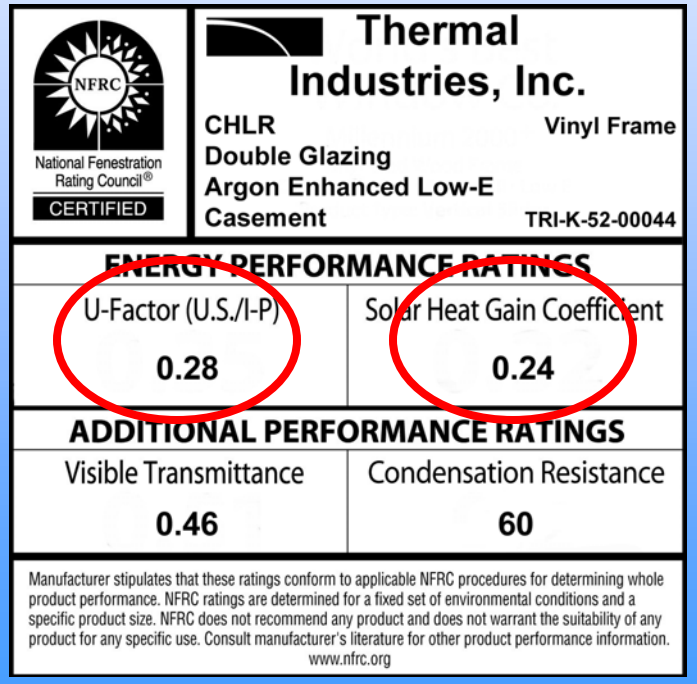
- Similar to EPA sticker on a new car that gives it's fuel economy





What makes ENERGY STAR qualified windows energy efficient?

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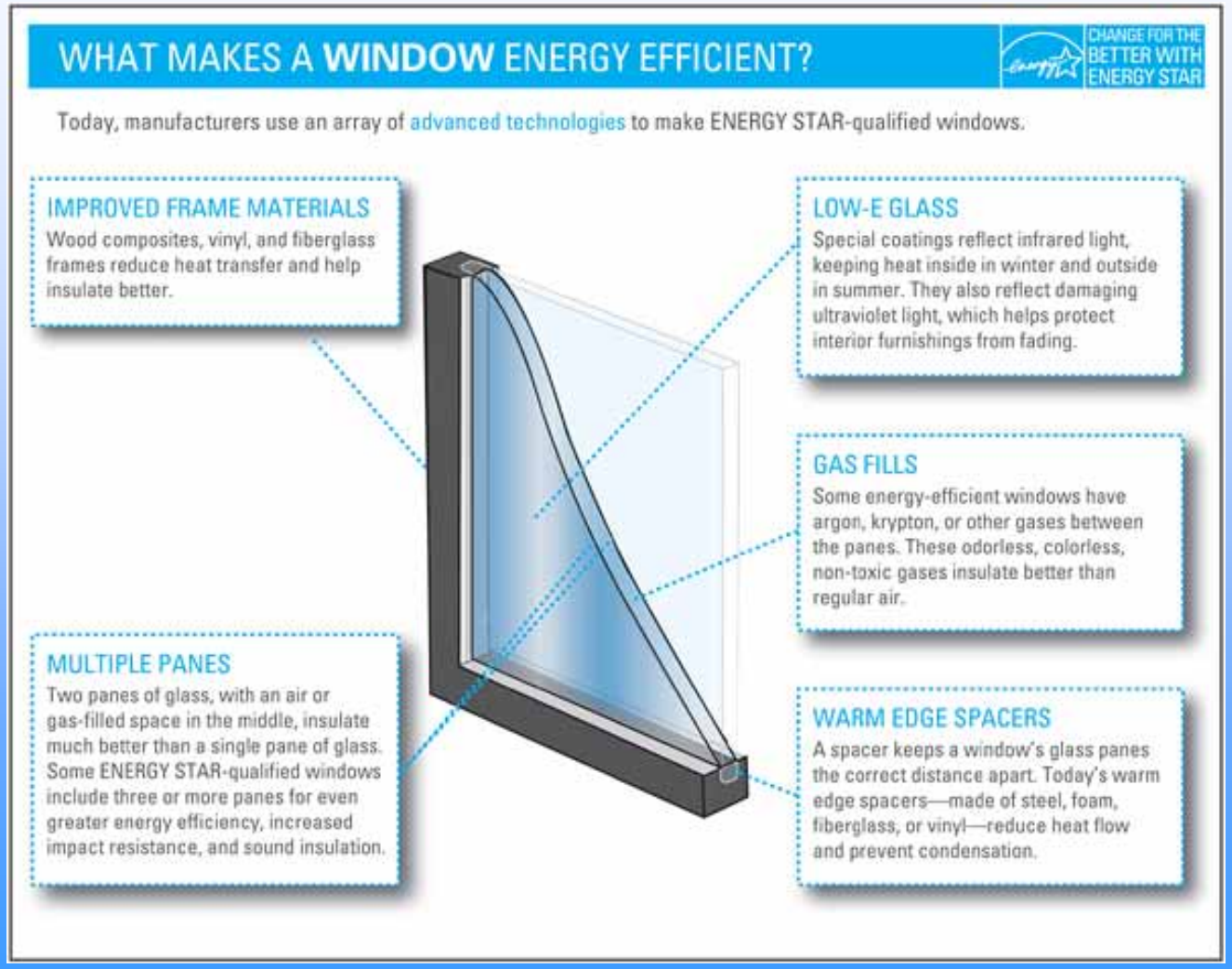

SAVING ENERGY EQUALS SAVING MONEY

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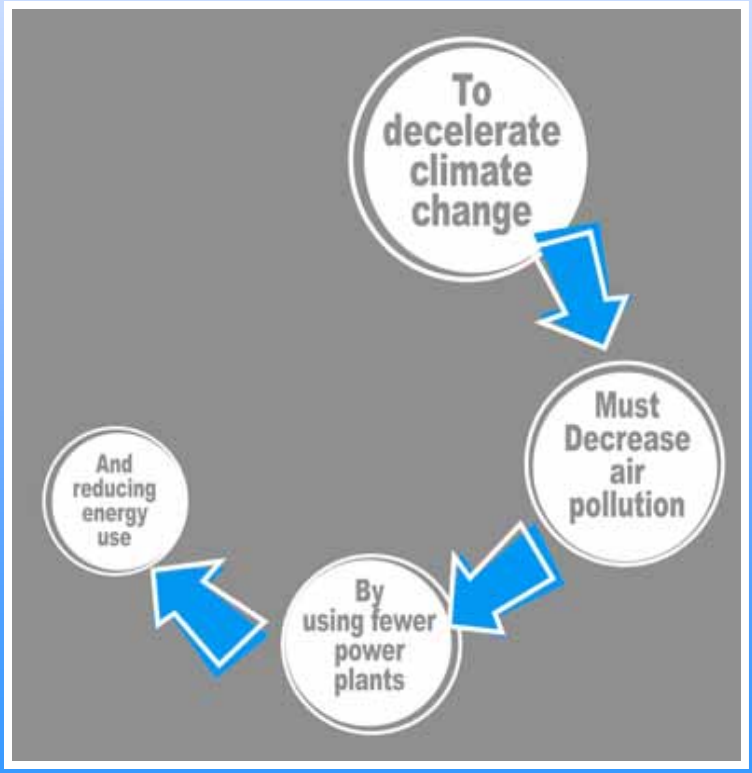
- Save **7-15%** per year when replacing single-pane windows with ENERGY STAR qualified windows.



LOWER UTILITY BILLS

- Reduces greenhouse gas emissions from power plants and shrinks carbon footprint.

Savings When Replacing

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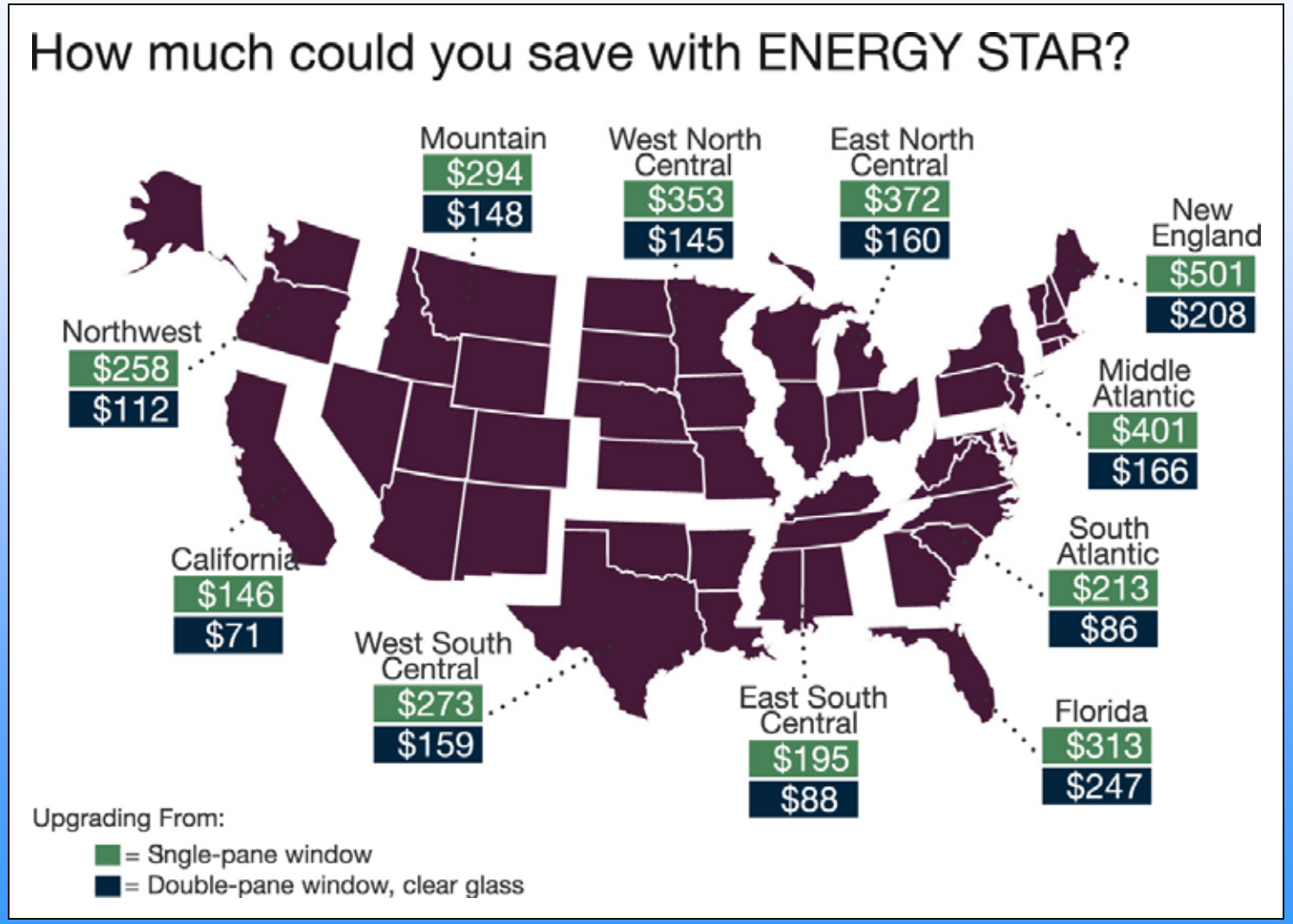

Increased Comfort

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- Help keep your home's temperature consistently comfortable.

Prevent Fading of Interior Furnishings

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- ENERGY STAR qualified windows have special coating that act like a sunscreen for your house
- Let light in while blocking damaging UV rays

Proud Partner

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