

Energy Fact Sheet

- **US households spend over \$22 billion on air conditioning costs each year, which emits over 100 Million tons of greenhouse gases into the atmosphere.** (1, 10)
- **Electricity prices are projected to increase 19% by 2040.** (2)
- **An ENERGY STAR® certified Matterhorn® cool roof can reflect up to 66% of solar radiation, which keeps homes cooler and significantly reduces air conditioning costs and emissions** (3)
- **31% of US greenhouse gas emissions come from the generation of electric power. Matterhorn® roofs can lower a home's peak energy demand, which decreases the amount of energy power plants must produce. This reduces both cost and greenhouse gas emissions from the power plant.** (4, 5)
- **Lower demand also improves the energy grid and decreases the likelihood of power blackouts on hot summer days.** (9)
- **For homes installing new air conditioning units, a Matterhorn roof can reduce the necessary size of a home's cooling equipment. This provides increased savings through lower material and installation costs.** (6, 7, 8)
- **If every US household replaced their existing asphalt roof with a Matterhorn cool metal roof, the reduction in greenhouse emissions would be equivalent to removing up to 5 Million cars from the road for one year*.** (11)
- **Many State incentive programs exists for homeowners who improve their homes efficiency by installing Energy Star certified products.** (14)

*Statewide savings assume every house currently has an air conditioner and an asphalt roof based on the number of single unit detached housing structures from 2009 American Community Survey (12). Calculations made using DOE Steep Slope Calculator produced by Oak Ridge National Lab. (13) Household savings based on average roofing area of 40 squares using solar reflectivity and emissivity values for Matterhorn Shake roof in Cedar.

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Resources

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