

Features

- 4 person, 1 story house
- Allentown, PA
- 1080 Sq. Feet
- Walls: R60
- Ceiling: R40
- Active, Passive, Wind, Geothermal Energy Sources

The Home that Loves the Family and the Environment

Zero energy homes, dwellings that can produce their own energy with renewable resources, are the future of homes across the world. Here is our proposal for a Zero Energy Home.

Prices

- Base House Cost: \$124,863
- PV Cost: \$22,770
- Upgrades: \$19,321
- Wind Turbines: \$7000
- Total: \$173,954

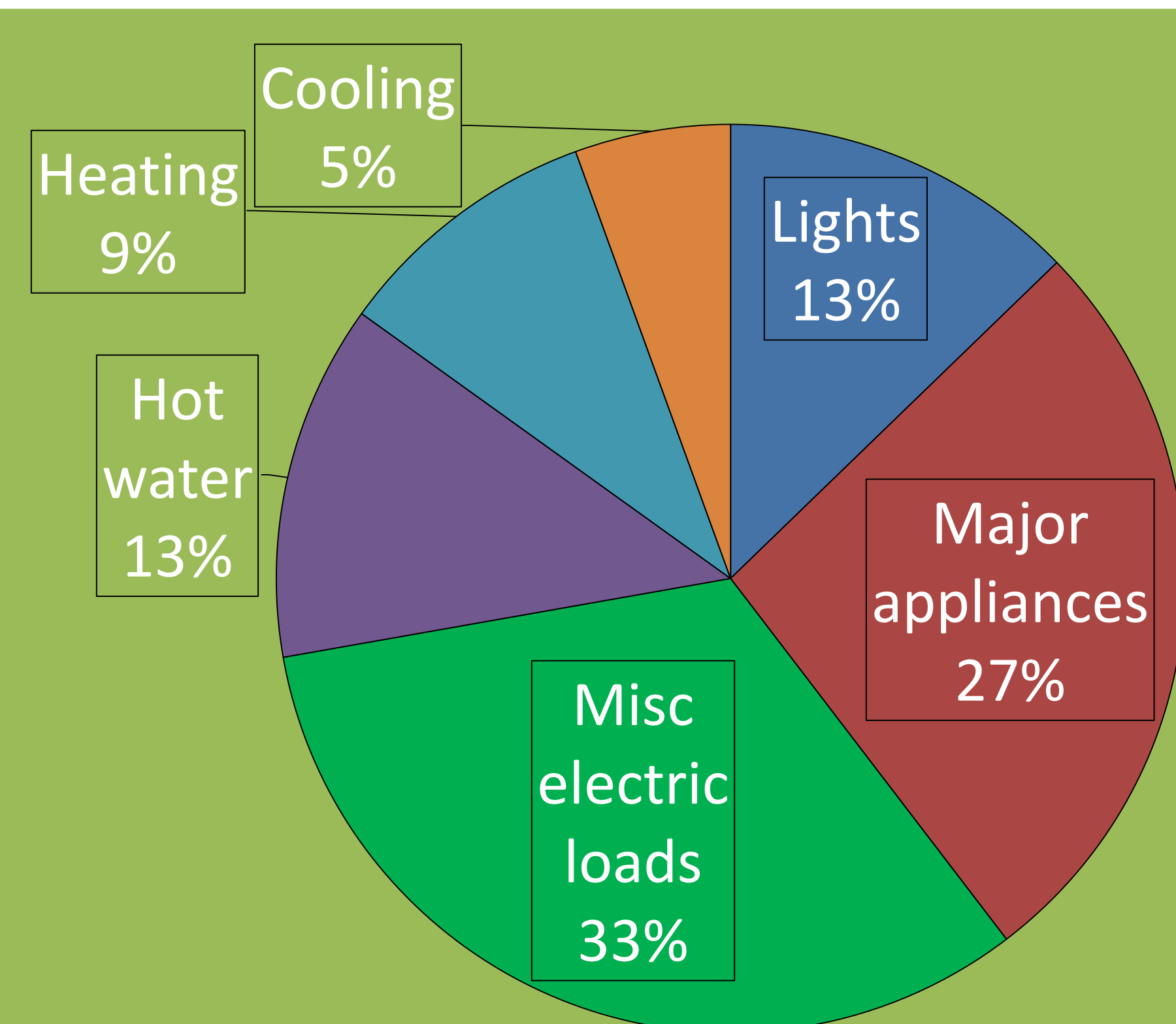
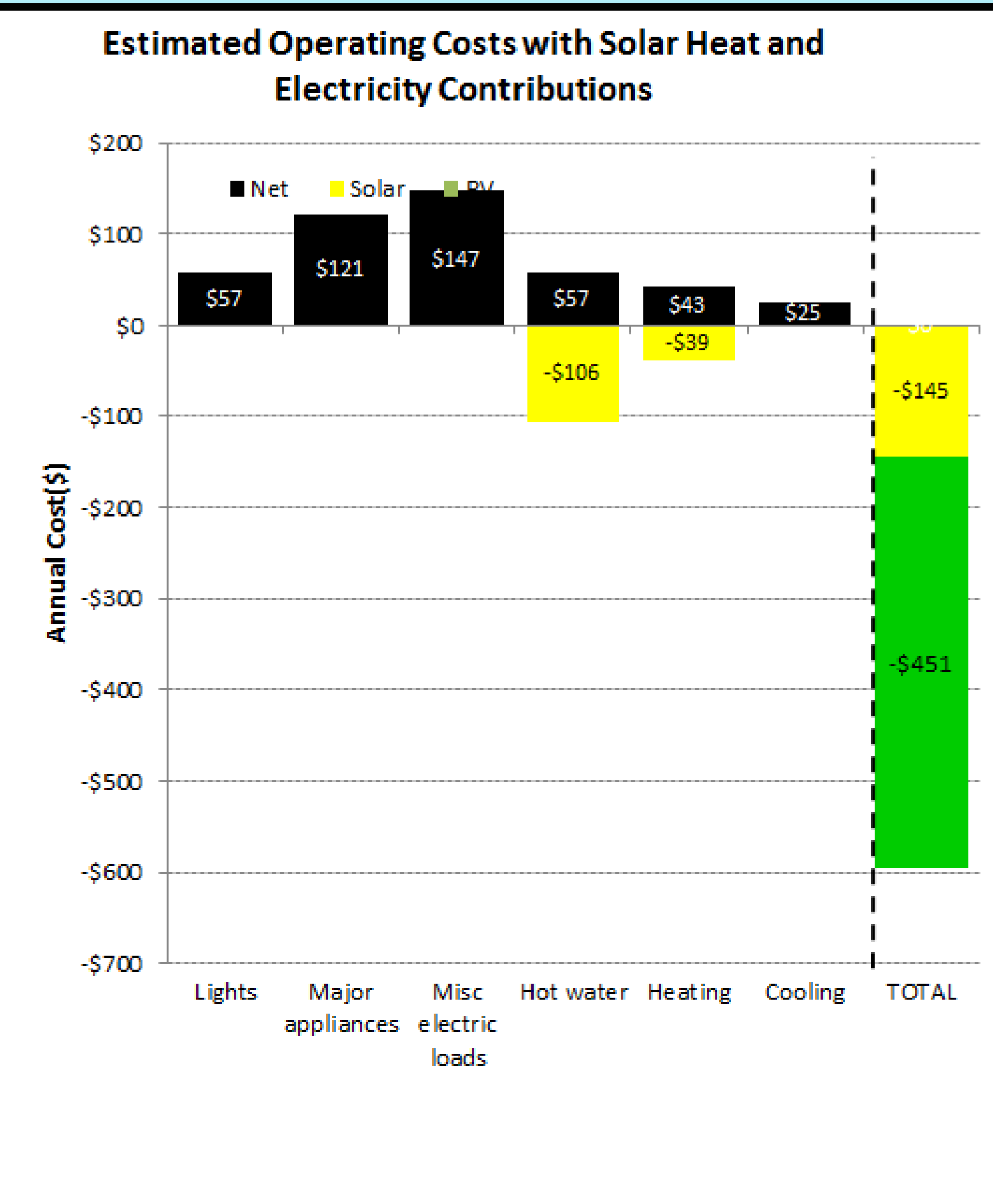
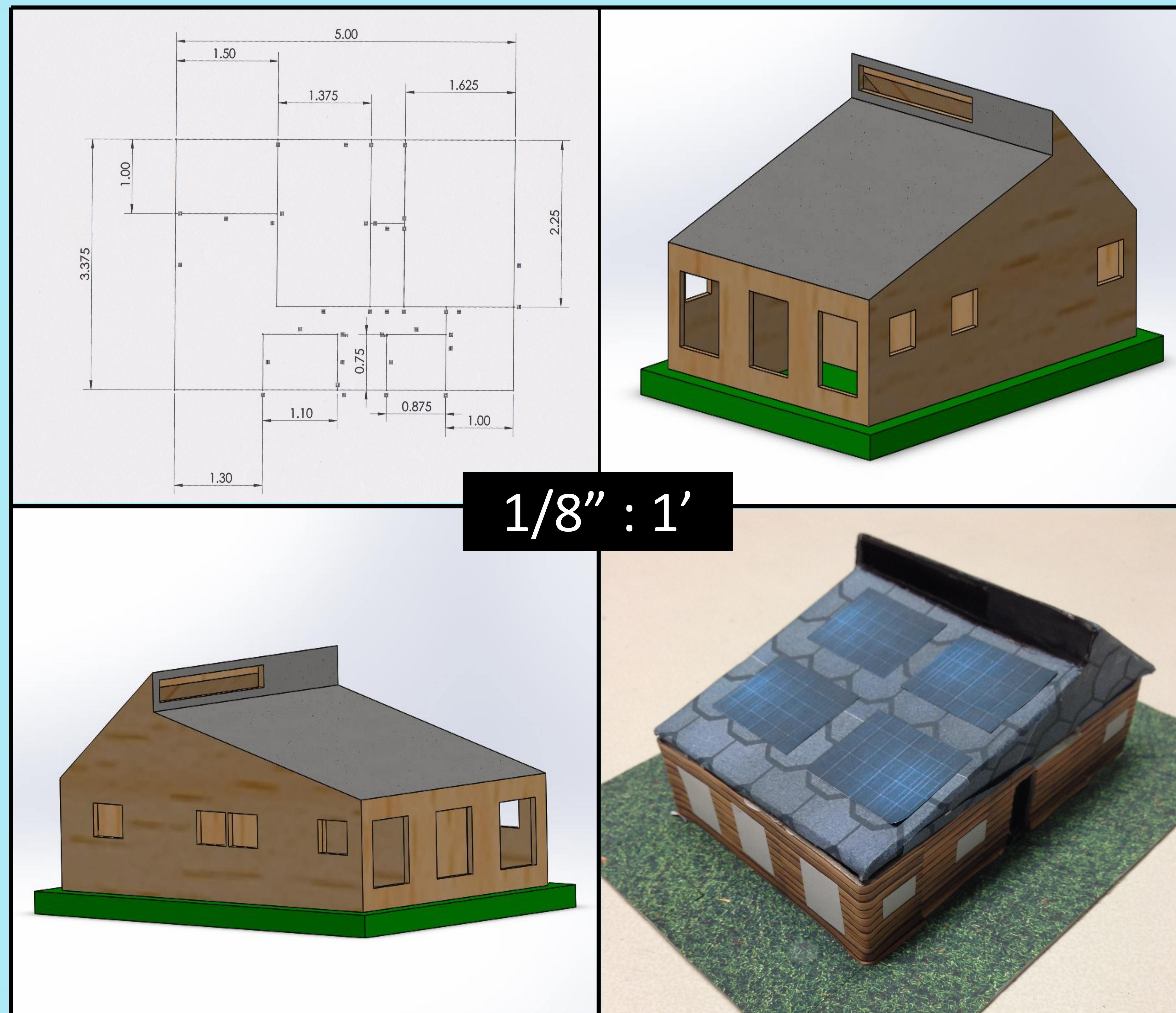
Savings



www.sungate.gr

Electricity

- Uses 5851 kwh
- PV Size: 4.55 kwh
- Wind Turbine system: 1967 kwh (\$7000)
- Tight heat recovery



Passive Solar

- Large Windows
- Faces 45° South
- 4 windows totaling 131 sq. feet
- Thermal mass heats 588 sq. feet

Engineering Design Section 009
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