Eagan Extreme Energy Makeover
Renewable and Energy Efficiency
Case study – Beacon Hill Road

Home owner is a solar PV electricity producer selling to Dakota County Electric. Weatherization and insulation will increase efficiency by up to 30%

Objectives:
• Eliminate Ice dam build up and leaks
• Remove old insulation
• Ensure open air pathways from eaves to roof ridge
• Air seal around all attic venting and plumbing penetrations
• Install Solar PV Renewable Energy system

System Facts:
• Polyurethane Spray Foam Insulation 7” at approximately R51
• Install new air chutes on North side of house
• Install 14 Solar World American made Modules 240 Watt Mono Crystalline
• Install M-215 Enphase micro-inverters and Envoy energy monitoring system
• System size 3,360 watts of energy production
• 25 year power production warranty on modules
• 25 year warranty on Enphase micro inverters
• GAF Roofing Underlayments – Ice and water shield 12 feet up from eave and Tiger Paw roof deck protection
• GAF Timberline Lifetime High Definition laminate shingles - color Slate