

# 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



4357 Minnehaha Ave SO Mpls  
[www.AppliedEnergyInnovations.com](http://www.AppliedEnergyInnovations.com)  
Office 612 532-0384  
Steve Haslach 612-282-8160  
More pictures can be found here:  
<http://www.facebook.com/aeimn>