

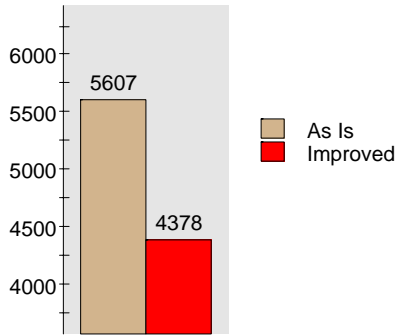
IMPROVEMENT ANALYSIS REPORT

Date: June 04, 2008	Rating No.: 148-0037	
Building Name: 2 Story Country Home	Rating Org.: TJH ENERGY CONSULTING	
Owner's Name: Fritz Kreiss	Phone No.: 262-248-6540	
Property: 5072 HWY 50	Rater's Name: Tom Krawczyk	
Address: Delevan, WI 53115	Rater's No.: 148	
Builder's Name:		
Weather Site: Madison, WI	Rating Type: Site Visit	
File Name: 148-0037 Kreiss_IMP_Case1.blg	Rating Date: May 21, 2008	

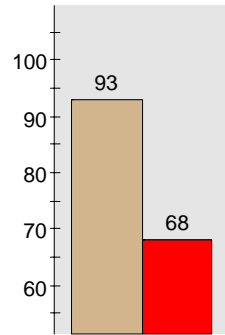
Energy Costs (\$/yr)

End-Use	As Is	With All Improvements	Savings
Heating	3181	2101	1080
Cooling	324	275	49
Hot Water	274	177	98
Lights and Appliances	1662	1662	0
Photovoltaics	-0	-0	0
Service Charge	167	167	0
TOTAL	5609	4382	1228

Total Costs (\$/yr)



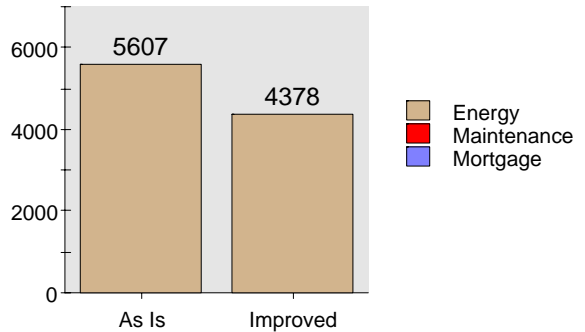
HERS Index



Information For Lenders and Appraisers

Installed Cost of Improvements (\$)	12027
Cost Weighted Life of Measure (Years)	22
Mortgage Term (Years)	0
Discount/Mortgage Rate (%)	0.000
Present Value Factor	22.3
Expected Annual Energy Savings (\$)	1228
Expected Annual Maintenance Costs (\$)	0
Expected Annual Savings (\$)	1228
Increased Annual Mortgage Costs (\$)	0
Present Value of Savings (\$)	27362
Expected Annual Cash Flow (\$)	1228

Cost Comparison (\$/yr)



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Recommended Improvements

Component	Life	Cost	Yr Savings	SP
1. Infiltration: Existing: 2267-3401/2267-3401 CFM50 Proposed: 1600.0/1600.0 As Specified Measure: Reduce 700-1000 CFM	25	320	240	1.34
2. Fnd Wall 2: FW11 Existing: Un 8" SC Proposed: 8-12"C R19 FOAM Measure: Spray R19 Foam	25	1528	304	5.03
3. Rim/Band 1: RJ1 Existing: R-0.0 / R-0.0 Proposed: R-0.0 / R-19.0 Measure: Spray R10 Foam	30	1223	150	8.12
4. Fnd Wall 1: FW1 Existing: Un 8" SC Proposed: 8-12"C R19 R0 Measure: Spray R19 Foam	25	856	104	8.24
5. Equip 2: HEAT: Existing: NG FN 100+K 80% AFUE Proposed: NGFN 80-100K 96%AFUE Measure: NG Furn 70-100K 94% AFUE	18	2900	221	13.14
6. Equip 5: DHW: Existing: NG WH .52EF 75Gal R0 Proposed: On demand NG .85EF Measure: Gas PV .64 EF 40 gal	12	1000	98	10.23
7. Equip 3: COOL: Existing: AC 3.0 ton, 9.5 SEER Proposed: AC 3.0 ton, 14 SEER Measure: 13 SEER AC	30	2000	51	38.95
8. Equip 4: COOL: Existing: AC 3.5 ton, 9.5 SEER Proposed: AC 3.5 ton, 14 SEER Measure: NG Furn 40-60K 90%	18	2200	60	36.72

Criteria

Ranking Criteria: SIR	Maximum \$ Limit: No Limit
Cutoff: 0	Measures: Interactive

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2 Story Country Home

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The home's energy efficiency is rated using the HERS Index as defined in the RESNET "Mortgage Industry National Home Energy Rating Systems Accreditation Standards," 2006. An Index of 100 represents a home that meets current energy codes. A lower Index indicates the home uses less energy than a code home, a higher Index indicates the home uses more energy than a code home. The rating considers all energy use in the home. The rating should be used only for comparison, since it assumes average climate and thermostat settings, quantities of hot water, and internal loads for a typical household. Energy costs are based on local energy prices at the time of rating. If energy efficiency improvements are made to the home, or energy prices change significantly, the rating and annual energy costs may change. Although every effort has been made to provide accurate information, this rating does not constitute a warranty, expressed or implied, about the energy efficiency or operating costs of the house. Estimated savings are calculated assuming that the improvements are implemented in the order listed, and in accordance with all local codes and standards. The cost estimates for improvements are established by the local HERS provider.