



Kennebec County Soil and Water Conservation District
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Pilot Project for Energy Audit and Energy Conservation Practice Adoption

PROPOSED COST SHARE PRACTICES

Practice Description of energy-saving innovation	Estimated Installed Cost/Unit Each	State Incentive (Non-Fed Match) Each	CIG Incentive (Federal Funds) Each	Cost to Farmer (Non-Fed Match) Each	Energy Savings, annual* kwh Each
High-performance outdoor lighting Vapor-tight HP-T8 light fixture allows for outdoor use on the farm	\$115.00	\$25.00	\$27.00	\$63.00	138
Vacuum pump with adjustable speed drive For use on milking machines; cost varies on size, 7.5 to 15 h.p.); variable speed vacuum pumps identified as potentially the biggest energy saver on dairy farms**	\$4,860.00 \$5,000.00 \$5,500.00	7hp-\$2,000 10hp-\$2,500 15hp-\$3,000	\$1,300.00 \$1,400.00 \$1,500.00	\$1,560.00 \$1,100.00 \$1,000.00	13,000-36,000
Efficient refrigerator, 5&6 h.p. Scroll compressor is a more efficient design	\$1,450.00 \$1,550.00	5hp-\$550.00 6hp-\$650.00	\$300.00 \$365.00	\$600.00 \$535.00	3,921
High-volume, low-speed fans Replaces conventional fans used to cool the milking cows in dairy barns.	\$1,700.00	\$1,000.00	\$350.00	\$350.00	26,318
Plate heat exchanger Pre-cooling the milk before refrigeration saves energy	\$2,800.00	\$500.00	\$900.00	\$1,400.00	13,069
Solar-heated hot water system (average cost of large unit, OG-300 rating) Enormous use of hot water for sanitation in milking parlors; Pre-heating water before it enters electric hot water tank reduces electric use significantly)	\$8,200.00	\$1,225.00	\$2,400.00	\$4,575.00	10,000

*Estimates based on agricultural audit performed by Wisconsin's "Focus on Energy" (ratepayer-funded efficiency program)