



Energy Self Assessment

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Center Pivot / Linear-Move Analysis

The information below will help aid you in determining potential options for reducing irrigation costs.

The first section provides baseline estimates of energy use. The following sections show energy savings estimates if the system pressure can be reduced, if irrigation scheduling would reduce one irrigation event per year, if the pumping efficiency could be increased, or the potential cost savings if a different fuel/energy type was used.

The Alternative Energy Option section will allow you to determine if you are using the lowest cost fuel available today.

Baseline Estimates and energy use		
Total System length, ft	700	feet
Estimated Acres Irrigated	26	acres
Pumping		
Total Dynamic Head	126	feet
Total Engine/Motor Brake Horsepower	32	hp
Total CP horsepower*	41	hp
Estimated Hours operated per year	127	hours
Annual Estimated Energy Usage		
Well Pump Power Unit	3473	kilowatt-hr
Tower and Booster motors	748	kilowatt-hr
Annual Irrigation Cost per Acre	16	\$ / Acre
Annual Fuel Cost	\$ 422	\$ / year
Btu Energy Equivalent	14406273	Btu / yr
Greenhouse Gas Emissions	6945	lbs CO2 / year
*' - includes booster and tower motors		
System Pressure Reduction Potential*		
Current Pressure at Center Pivot / linear drive unit	35	psi
Current estimated pressure at end of lateral	12	psi
Low pressure sprinklers pressure requirement	30	psi
Potential Horsepower Reduction	0	hp
Energy Savings	0	kilowatt-hr
Cost Savings	\$ 0	\$ / year