

Agricultural Energy Audit - Screening Tool

Instructions: The purpose of this form is to assess if there are potential electrical energy savings that could be identified by performing an on-site energy audit at an agricultural production site. Questions include high-level information about electrical energy-consuming equipment as well as information about farm type and agricultural production activities. This form should be completed by an on-site individual most knowledgeable about the energy-using equipment at the agricultural production site or by an experienced agricultural energy auditor. The completed form must be returned to the agricultural producer's electric service utility for review and processing. If an on-site energy audit is determined necessary, additional information will be requested from the participating agricultural producer and their chosen experienced agricultural energy auditor.

If any information does not apply, please enter N/A into the text box.

CUSTOMER INFORMATION					
Farm Business Name:					
Site Address:					
City:		State:		Zip:	
Email:			Phone:		
Is the farm owned or leased?:		☐ Owned ☐ Leased			
Electric Utility Name:					
Electric Utility Account Number:					
ANNUAL ELECTRICITY USE (KWH/YR)					
Irrigation Electricity Usage			Farm Operations Electricity Usage		
AGRICULTURAL SITE INFORMATION					
SITE TYPE: (select all that apply)	☐ Dairy ☐ Poultry ☐ Ranch ☐ Orchard ☐ Vineyard		☐ Irrigated Crop ☐ Green House ☐ Forestry Products ☐ Nursery Stock ☐ Produce Storage		☐ Other (please describe below):
FARM BUILDINGS					
Fuel Source for HVAC system in heated and/or cooled buildings:		☐ Natural Gas ☐ Propane ☐ Electric			
		☐ Other (please describe):			
How many heated and/or cooled buildings are on site?					
Total square footage of heated and/or cooled buildings:					
Age of HVAC system in heated and/or cooled buildings:					
How many lighted buildings are on site?					
Total square footage of lighted buildings:					
Yard Lighting?			☐ Yes ☐ No ☐ Don't know		

IRRIGATION SYSTEMS		
TYPE OF IRRIGATION SYSTEM (select all that apply and enter acres served)		
Type	Acres Served	
☐ Hand-line/Wheel-line Acres Served		
☐ Solid Set Sprinklers		
☐ Solid Set Drip		
☐ Solid Set Orchard		
☐ Pivot with Mid-Elevation Sprinklers (MESA ≥ 40 inches)		
☐ Pivot/Linear with Low Elevation Sprinklers (LESA, LEPA ≤ 39 inches)		
☐ Low Energy Precision Application		
☐ Pivot/Linear with Impact Sprinklers		
☐ Pivot/Linear with Mobile Drip Irrigation		
☐ Other irrigation system (please describe):		
Total Acres of Irrigated Land:		
Typical Crops and Rotation:		

IRRIGATION PUMPS		
ENTER THE NUMBER OF PUMPS AND THE TOTAL HORSEPOWER (HP) FOR EACH AGE RANGE		
Age Range (years)	Number of Pumps	Total hp
0-5		
6-9		
10-15		
16-20		
21-25		
26+		
Are any pumps on VFDs:	☐ Yes ☐ No ☐ Don't know	

DAIRY INFORMATION (IF APPLICABLE)	
Total Head Count of Milkers:	
Square Footage of Dairy Parlor:	
Is there a plate cooler?	☐ Yes ☐ No ☐ Don't know
Is there a VFD on the vacuum pump?	☐ Yes ☐ No ☐ Don't know
Is there a VFD on the compressor?	☐ Yes ☐ No ☐ Don't know
Does this dairy process or chill the milk?	☐ Process ☐ Chill
Are there cooling fans?	☐ Yes ☐ No ☐ Don't know
Has the lighting been converted to LEDs?	☐ Yes ☐ No ☐ Don't know

GREEN HOUSE/INDOOR AGRICULTURE GROW INFORMATION (IF APPLICABLE)	
How many green houses are on site?	
What's the total square footage of the green houses?	

Do the greenhouses have lighting?	☐ Yes ☐ No		
Are the green houses heated and/or cooled?	☐ Yes ☐ No		
What fuel is used to heat and/or cool the green houses:	☐ Natural Gas ☐ Propane ☐ Electric		
POTENTIAL ENERGY EFFICIENCY PROJECT DETAILS			
Was an energy audit assessment performed before?	☐ Yes ☐ No		
If yes, in what year was the audit performed?			
Briefly describe any areas of interest for potential equipment improvement projects at the site (e.g., lighting, HVAC, irrigation pumps...etc.):			
Have you contacted a USDA NRCS Technical Service Provider or Energy Auditor about completing an on-site energy audit? ☐ Yes ☐ No If "yes," complete the information below.			
Energy Auditor Name:			
Energy Auditor Certification:	☐ TSP ☐ PE ☐ CEM ☐ Other:		
Years of Experience:			
Auditor Business Address:			
City:		State:	Zip:
Email:		Phone:	
(A) Estimated Energy Audit Cost:			
(B) Outside Funding Available for Energy Audit:			
Net Cost (A-B) =			