COLORADO
Energy Office
Energy Efficiency

Colorado Dairy and Irrigation Efficiency Participant Application

Dairy/Farm Name and Contact Information:
Dairy/Farm Name:
Contact Name:
Facility Address (including city and zip code):

Phone:
E-mail:

How did you hear about the Colorado Dairy and Irrigation Efficiency Program?

Estimated annual energy expenditures for the dairy facility or irrigation systems that are proposed for participation in the program:

Natural Gas:	Utility Provider:
Electricity:	Utility Provider:
Propane:	Supplier:
Diesel:	
Gasoline:	
Other:	Utility Provider:

Please provide answers for <u>each</u> of the buildings or irrigation systems proposed for participation in the program:

Dairy

Total Number of Cows:
Number of Milking Cows:

Milking Parlor
Style:
Number of Units:
Year Built:

Barns
Number of barns:
Year Built:

Other Buildings
Number of other buildings:
Square footage (this can be approximate):
Uses:

Irrigation

Number of irrigation / well pumps:_____

Irrigation System #1

Name of system:
Year Constructed:
HP of irrigation/well pump:_____
Is there a VFD on irrigation/well pump? Yes ◯ No ◯
Do you ever have to throttle or choke your pump during the irrigation season? Yes ◯ No ◯
Type of system (center pivot, lateral move, drip, microspray, etc) please describe typical operation:

Irrigated crops:
Acres irrigated from this irrigation/well pump:
Is this pump used for multiple irrigated systems (pivots/fields/etc)?
Do you utilize irrigation water management practices?
If yes, describe (ex. moisture sensors, weather station, etc):

Irrigation System #2

Name of system:
Year Constructed:
HP of irrigation/well pump:_____
Is there a VFD on irrigation/well pump? Yes ◯ No ◯
Do you ever have to throttle or choke your pump during the irrigation season? Yes ◯ No ◯
Type of system (center pivot, lateral move, drip, microspray, etc) please describe typical operation:

Irrigated crops:
Acres irrigated from this irrigation/well pump:
Is this pump used for multiple irrigated systems (pivots/fields/etc)?
Do you utilize irrigation water management practices?
If yes, describe (ex. moisture sensors, weather station, etc):

Irrigation System #3
Name of system:
Year Constructed:
HP of irrigation/well pump:_____
Is there a VFD on irrigation/well pump? Yes ◯ No ◯
Do you ever have to throttle or choke your pump during the irrigation season? Yes ◯ No ◯
Type of system (center pivot, lateral move, drip, microspray, etc) please describe typical operation:

Irrigated crops:
Acres irrigated from this irrigation/well pump:
Is this pump used for multiple irrigated systems (pivots/fields/etc)?
Do you utilize irrigation water management practices?
If yes, describe (ex. moisture sensors, weather station, etc):

Irrigation System #4
Name of system:
Year Constructed:
HP of irrigation/well pump:_____
Is there a VFD on irrigation/well pump? Yes ◯ No ◯
Do you ever have to throttle or choke your pump during the irrigation season? Yes ◯ No ◯
Type of system (center pivot, lateral move, drip, microspray, etc) please describe typical operation:

Irrigated crops:
Acres irrigated from this irrigation/well pump:
Is this pump used for multiple irrigated systems (pivots/fields/etc)?
Do you utilize irrigation water management practices?
If yes, describe (ex. moisture sensors, weather station, etc):

Irrigation System #5
Name of system:
Year Constructed:
HP of irrigation/well pump:_____
Is there a VFD on irrigation/well pump? Yes ◯ No ◯
Do you ever have to throttle or choke your pump during the irrigation season? Yes ◯ No ◯
Type of system (center pivot, lateral move, drip, microspray, etc) please describe typical operation:

Irrigated crops:
Acres irrigated from this irrigation/well pump:
Is this pump used for multiple irrigated systems (pivots/fields/etc)?
Do you utilize irrigation water management practices?
If yes, describe (ex. moisture sensors, weather station, etc):

General

What are you interested in improving at the farm? Any specific projects you are looking to do?

What have you recently upgraded at the farm?

Do you have any energy reduction goals? If so, what are they?

If accepted into the program participants must agree to provide the following:

- Electricity bills (use and cost) for each building/system in the program for the most recent 24 - 36 months (this information can be provided directly by your energy provider)
    - Information should include electrical demand (kW) and demand cost (if applicable), energy use (kWh) and cost, and total cost
- Gas bills (use and cost) for each building in the program for the most recent 24 - 36 months (this information may be provided directly by your energy provider or may require some effort to gather past bills)
    - Information should include fuel use and total cost
- LP, Diesel, and Gasoline purchase records for 24 - 36 months.
- Aerial photo of farm (if available)
- Floor plan/landscape plan for each building/irrigation system included in the program (if available)

The purpose of this program is a coordinated approach to energy efficiency improvements in Colorado's agricultural sector. Participants in the program will receive a free energy audit, preliminary renewable energy assessment, technical support and implementation support. Participants are strongly encouraged to pursue implementation. Implementation of energy efficiency improvements is voluntary and is not required to sign up for the audit and technical support.

Please note that this program is not intended for hobby farms. A typical dairy or crop farm will have a monthly electric bill of about $400 or more (for crop farms this typical monthly bill will only be expected during irrigation months).

Name (Print): _____

Signature: _____ Date: _____

Please sign, scan, and email as a PDF to:
agservices@gdsassociates.com

Or send to:

Colorado Energy Office
Attention: Michael Turner
1580 Logan St, #100
Denver, CO 80203