

INCENTIVES FOR FARM AND DAIRY ENERGY EFFICIENCY MEASURES

EQUIPMENT TYPE	EQUIPMENT CATEGORY	MINIMUM EFFICIENCY REQUIREMENT	CUSTOMER INCENTIVE
Automatic Milker Takeoffs (Retrofit only)	--	Equipment must be able to sense milk flow and remove milker when flow reaches a pre-set level. The vacuum pump serving the affected milking units must be equipped with a VFD. Incentive is available for adding automatic milker takeoffs to existing milking systems, not for takeoffs on a brand new system where there was none before. Replacement of existing automatic milker takeoffs is not eligible for this listed incentive but may qualify for a custom energy efficiency incentive.	\$294 each
High Efficiency Circulating Fans (See note 2)	12-23" diameter	Fan must achieve an efficiency level of 11 cfm/W	\$31/fan
	24-35" diameter	Fan must achieve an efficiency level of 18 cfm/W	\$44/fan
	36-47" diameter	Fan must achieve an efficiency level of 18 cfm/W	\$62/fan
	≥ 48" diameter	Fan must achieve an efficiency level of 25 cfm/W	\$94/fan
Heat Recovery	--	Heat recovery unit must use heat rejected from milk cooling refrigeration system to heat water. Customer must use electricity for water heating.	\$0.28/kWh annual energy savings
High Efficiency Ventilation Fans (See note 2)	12-23" diameter	Fan must achieve an efficiency level of 11 cfm/W	\$56/fan
	24-35" diameter	Fan must achieve an efficiency level of 13 cfm/W	\$94/fan
	36-47" diameter	Fan must achieve an efficiency level of 17 cfm/W	\$156/fan
	≥ 48" diameter	Fan must achieve an efficiency level of 19.5 cfm/W	\$188/fan
Milk Pre-Coolers (Retrofit only)	--	The equipment must cool milk with well-water before it reaches the bulk cooling tank.	\$0.28/kWh annual energy savings
Programmable Ventilation Controllers	--	Controller must control ventilation fans based on temperature or other applicable factors such as humidity, odor concentration, etc.	\$25/fan controlled
Variable Frequency Drives for Dairy Vacuum Pumps (Retrofit only)	--	VFD must vary motor speed based on target vacuum level. Incentive available for retrofit only (i.e. new construction and replacement of existing VFD not eligible).	\$206/hp
Potato or Onion Storage Fan VFD	--	Add variable frequency drive to existing or new fan in potato or onion storage	\$219/hp

Notes for farm and dairy incentives:

- Equipment that meets or exceeds the efficiency requirements above may qualify for the listed incentive.
- Fan performance must be rated by an independent testing body in accordance with the appropriate ANSI/AMCA standards.
- Incentives are capped at 70% of the energy efficiency project costs and incentives will not be available to reduce the energy efficiency project simple payback below one year. Energy savings and energy efficiency project costs are subject to Pacific Power approval.
- Except where noted, all equipment listed in the table is eligible for incentives in both new construction and retrofit projects.

AMCA = Air Movement and Control Association International, Inc.
 ANSI = American National Standards Institute
 cfm = cubic feet per minute

hp = horsepower
 VFD = Variable Frequency Drive
 W = watt