

San Joaquin Valley Air Pollution Control District

Heavy-Duty Engine Program:

Agricultural Tractor and Mobile Equipment Replacement

Stationary Agricultural Irrigation Pump Repower

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Tractor and Mobile Equipment Replacement

- Applications will be accepted and funded on a continuous basis
- Applications must be completed and provided with a quote and W9
- Incentive amount is based on the horsepower of the new equipment

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Tractor and Mobile Equipment Replacement

Minimum requirements for the old equipment

- Old equipment must have an uncontrolled or a Tier I diesel engine (pre 2002)
- Must be self propelled with horsepower rating of 25 or greater
- Must have owned & operated the equipment for the last two years (documentation required)
- Pre-inspection & post-inspection will be conducted to verify

**Please note that the preceding list of minimum requirements does not guarantee funding. A full listing of program requirements can be found in the Program Guidelines at http://www.valleyair.org/Grant_Programs/GrantPrograms.htm#AgTractor.

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Tractor and Mobile Equipment Replacement

- Minimum requirements for the new equipment
 - 10 year contract established
 - The equipment must be considered new (by the manufacturer)
 - Must purchase the cleanest equipment available.
 - Tier 3 or Tier 4 engine (depending on horsepower and availability)
 - Must operate the equipment 75% of the time in CA & 50% of the time within the SJVAPCD
 - Serves the same function and equivalent work as old equipment

**Please note that the preceding list of minimum requirements does not guarantee funding. A full listing of program requirements can be found in the Program Guidelines at http://www.valleyair.org/Grant_Programs/GrantPrograms.htm#AgTractor.

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What happens to my old equipment?



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How much \$\$ can I get?

Tractor and Mobile Equipment Replacement Incentive Tables

Wheel Loaders (max bhp rating)	SJVAPCD Incentive
All Horsepower Ratings	\$450/bhp
All other Tractors & Equipment (max bhp rating)	SJVAPCD Incentive
25-109	\$200/bhp
110-149	\$250/bhp
150 +	\$350/bhp

Funding amount is based on new equipment HP
Increase 125% in HP from existing equipment

Applicant must not purchase, make payments toward, and/or take possession of new tractor prior to receiving a fully executed contract from the SJVAPCD.

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Stationary Agricultural Irrigation Pump Repower

- Rule 4702 compliance date is fast approaching for Tier 1 and Tier 2 agricultural irrigation pump engines:

Compression-Ignited (Diesel) Engine Greater than 25 brake HP		
Existing (old) Engine Type	New Engine Emission Limit / Standard	Compliance Date
Tier 0	Tier 3 or 4	January 1, 2010
Tier 1 or 2	Tier 4	January 1, 2015*
Tier 3 or 4	Meet standard in effect at time of installation	At time of installation

*January 1, 2015 or 12 years after installation date, but not later than 6/1/2018

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Stationary Agricultural Irrigation Pump Repower

- Time is of the essence
 - Projects must be funded a minimum of one (1) year prior to Rule 4702 compliance dates
 - Rule 4702 begins claiming Tier 1 & 2 ag-pump reductions on **January 1, 2015**
 - All Tier 1 & 2 projects must have executed contracts with SJVAPCD and be installed (fully operational) by **January 1, 2014** to receive grant funding
 - Applications are being accepted on a first-come, first-served basis

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Stationary Agricultural Irrigation Pump Repower

- Funding is available for the following categories:
 - Tier 1 & 2 going to Tier 4
 - Tier 1, 2, & 3 going to Electric
- Funding is capped at the following horsepower levels for each new engine/motor, not to exceed 85% of eligible costs for repower projects and 20% of eligible costs for new motor purchase projects



Diesel Engine to Diesel Engine	SJVAPCD Incentive
26-99	\$140/hp
100-125	\$120/hp
126-150	\$100/hp
151-749	\$90/hp
Diesel Engine to Electric Motor	SJVAPCD Incentive
26-99	\$150/hp
100-199	\$130/hp
200-499	\$140/hp
500-600	\$150/hp

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What happens to my old engine?

1. Permanently disabled and photographed by SJVAPCD

2. Sent to scrapping facility to be crushed (receipt w/ engine serial number submitted to SJVAPCD)

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Benefits to Going Electric

- Eliminate permitting requirements!!
 - If you eliminate combustion irrigation engines, or reduce the numbers of engines enough, you can avoid air permits.
 - Approximate trigger points for District and Federal Title V permits with an average potential use at 2,500 hours per year.
 - Tier 1 fleet – permits required about 400 bhp; Title V permits about 750 bhp.
 - Tier 2 fleet – permits required about 600 bhp; Title V about 1,100 bhp.
 - Tier 3 fleet – permits required about 900 bhp; Title V about 1,800 bhp.
 - Tier 4 fleet – permits required about 1,600 bhp; Title V about 3,300 bhp.
- Additional workshops will be held in February regarding electrifying irrigation fleets, and permitting requirements.

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On-Road Heavy-Duty Trucks

- Local Truck Voucher Program (TVP)
 - Be a small business as defined by state of CA located in the Valley
 - Replacement and retrofit options
 - Up to \$50,000 for replacements and \$10,000 for retrofits
 - Applications accepted on first come first serve basis through participating dealerships and installers

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