



Our Vision  Clean Air

Agenda Date:	March 15, 2007
Agenda Placement:	Admin.
Estimated Time:	NA
Continued Item:	No

## Board Agenda Item

TO: Air Pollution Control District Board

FROM: Terry Dressler, Air Pollution Control Officer

CONTACT: Gary Hoffman, 961-8818

SUBJECT: Agriculture Water Pump Repower Program

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### RECOMMENDATION:

Approve \$400,000 in additional funding allocation for the Agriculture Water Pump Repower Program.

### SUMMARY:

The recommendation increases the Agriculture Water Pump Repower Program allocation from \$1,100,000 to \$1,500,000 by approving an additional \$400,000 in Innovative Technologies Group (ITG) funds (Carl Moyer Program, \$2 DMV, or ITG Mitigation Trust funds) to repower agricultural water pump engines with new low emissions engines. This program allocation does not change the Fiscal Year 2006-07 budget.

### DISCUSSION:

Since April, 2001, your Board has approved a total \$1,100,000 in Carl Moyer Program and other ITG funds to allocate to our Agriculture Water Pump Repower Program. This repower program provides incentive funding to farmers to repower mostly older diesel-powered water pump engines with new certified low emission engines or zero emission electric motors. The new diesel engines must be certified to current off-road emission standards (Tier 3 in most categories)

by the Air Resources Board (CARB) for sale in California. ITG is targeting this program to all applicable agricultural water pump diesel engines, and zero emission electric pump motors, with a focus on smaller agriculture sources.

To date, the program funds have been used to successfully replace 61 diesel engines in our county, generating about 472 tons of NO<sub>x</sub>, ROG, and particulate matter (PM<sub>10</sub>) emission reductions over the life of the projects. The program's overall cost-effectiveness to date is about \$2,120/ton of total emissions reduced. An earlier ITG program (1997-1999) targeting portable agriculture water booster pumps, successfully replaced a total of 61 portable engines. Together, these programs have replaced over 120 water pump engines in our county.

We are currently working with two agricultural growers who have applied to replace 5 older diesel water pump irrigation engines with new CARB-certified Tier 3 diesel engines. We are also expecting an application soon to replace up to 6 large stationary diesel engines with electric motors. If approved, these projects would exceed ITG's current program balance of \$83,610. In addition, more applications for incentive funding are expected from farmers in the near future in order to comply with the new In-Use Stationary Diesel Agricultural Engine Air Toxic Control Measure. Therefore, we are recommending that your Board approve an additional \$400,000 allocation in ITG funds (Carl Moyer Program, \$2 DMV, or ITG Mitigation Trust funds) toward this program, so that we can proceed with additional cost-effective repower projects. We will continue to apply the Carl Moyer Program guidelines to all future projects to ensure their eligibility for funding.

This additional \$400,000 allocation for the Agriculture Water Pump Repower Program will derive from the Carl Moyer Program, \$2 DMV, or alternative ITG revenue designations, and may be expended over several fiscal years. This program allocation does not change the District's fiscal year 2006-07 budget amount for ITG.