Agricultural Irrigation Pumps
Central Wisconsin

Key Project Information

<table>
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<th>Equipment:</th>
<th>Stationary Agricultural Irrigation Pumps</th>
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<td>Project:</td>
<td>Engine Repower</td>
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<td>No. of Engines:</td>
<td>29</td>
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<td>Project Year:</td>
<td>2012</td>
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<td>Funding Agency:</td>
<td>US EPA- National Clean Diesel Funding Assistance Program</td>
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Leonardo Academy, through a grant provided by the Environmental Protection Agency’s (EPA) National Clean Diesel Funding Assistance Program, facilitated efforts to reduce emissions among seventeen central Wisconsin cranberry farmers. The project helped offset the cost of repowering 29 diesel irrigation pumps to achieve better fuel efficiency and help improve air quality.

Wisconsin is an industry leader in cranberry farming, and is ranked as the number one cranberry producer in the nation for the 16th consecutive year. Wisconsin cranberry growers understand that sustainable farming must be practiced in order for the cranberry industry to remain a strong part of Wisconsin’s heritage and economy. Today it is estimated that there are between 9,000 and 11,000 stationary diesel agricultural engines operating throughout central Wisconsin. Like many older diesel engines, Wisconsin’s in-use stationary diesel agricultural engines emit particulate matter (PM) and nitrogen oxides (NOx) that have the potential to cause adverse health effects to operators and people in neighboring communities.

Engine repowers completed by:

- Twin Lake Cranberry
- Elm Lake Cranberry Co.
- Perry Creek Cranberry Corporation
- Owen Rock Cranberries
- Cranberry Creek Cranberries
- Dandy Creek Cranberries
- JDH Cranberries
- Wisconsin River Cranberry
- Lester Cranberry
- Whittlesey Cranberry
- Fanning Cranberry
- Jackson Crawford Creek
- Adam 73
- Juneau Mather
- Juneau Yellow River
- Portage Evergreen
- Wood Oakridge

Estimated Project Benefits:

- CO₂ Reduced - 1630 tons
- NOₓ Reduced - 200 tons
- PM Reduced - 37 tons
- Diesel Savings - 147,500 gal
- Fuel Cost Savings - $663,750