



DAIRY DIGESTER RESEARCH AND DEVELOPMENT PROGRAM

California Department of Food and Agriculture's Dairy Digester Research and Development Program (DDRDP) awards competitive grants to California dairy operations and digester developers for the implementation of dairy digesters that result in methane emission reductions on California dairies and minimize or mitigate adverse environmental impacts.

WHAT IS A DAIRY DIGESTER?

Anaerobic digesters harness the natural process of decomposition of dairy manure to produce methane-rich biogas, which is captured to generate electricity or Renewable Natural Gas (RNG), which can be used as transportation fuel or directly injected into pipelines. Capturing methane, which is approximately 25 times more potent than carbon dioxide (CO₂) as a greenhouse gas (GHG), keeps it from escaping into the atmosphere and contributing to climate change.



HOW MANY PROJECTS HAVE BEEN FUNDED SO FAR?

Since 2014, CDFA has held 7 DDRDP grant solicitations and awarded nearly \$227 million to over 140 projects with required matching funds of \$495 million by the recipients.

CDFA has received funding through California Climate Investments and the California State Budget General Fund to support these projects.

DDRDP PROJECT RECIPIENTS MUST:

- ◆ Provide at least 50% cost share.
- ◆ Meet strict environmental criteria for air and water quality.
- ◆ Conduct community outreach, determine potential adverse impacts of the project, and commit to mitigation measures.
- ◆ Report annually their verified actual GHG reductions.

Updated in January 2024

Digesters capture emissions and convert them into energy

- Reduce greenhouse gas (GHG) emissions
- Produce renewable energy
- Reduce odors and pathogens
- Provide additional revenue through the production of by-products

BY THE NUMBERS



24.5 million

metric tons of CO₂ equivalents (MTCO₂e) will be reduced over **10 years**.

An amount equivalent to removing



5,465,000

cars off the road each year

- ◆ GHG emissions reductions from projects are estimated using the California Air Resources Board Quantification Methodology for the CDFA DDRDP.

Learn more at cdfa.ca.gov/oefi/DDRDP