CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
2017 Dairy Digester Research and Development Program
Applications Submitted to CDFA

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#	APPLICANT ORGANIZATION	PROJECT TITLE	DESCRIPTION	REQUESTED GRANT FUNDS	MATCHING FUNDS	COUNTY	LOCATED IN DAC	10 YR GHG REDUCTIONS (MTCO2e)
1	Trilogy Dairy Biogas	Trilogy Dairy Biogas	Trilogy, a General Order dairy in Bakersfield, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$2,250,000	Yes	Kern	No	254,577
2	Maple Dairy Biogas	Maple Dairy Biogas	Maple Dairy, a General Order dairy in Bakersfield, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$3,000,000	Yes	Kern	No	342,587
3	T & W Dairy Biogas	T & W Dairy Biogas	T & W Farms, a General Order dairy in Bakersfield, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$2,600,000	Yes	Kern	No	294,982
4	S&S Dairy Biogas	S&S Dairy Biogas	S&S Dairy, a General Order dairy in Visalia, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$1,600,000	Yes	Tulare	Yes	167,417
5	Moonlight Dairy Biogas	Moonlight Dairy Biogas	Moonlight Dairy, a General Order dairy in Visalia, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$1,500,000	Yes	Tulare	Yes	154,834
6	Rancho Teresita Diary Biogas	Rancho Teresita Dairy Biogas	Rancho Teresita, a General Order dairy in Tulare, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver low pressure biogas to a nearby centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global, and SoCalGas comprise the project team. A 1MW generator has been permitted with an emissions mitigation plan in the event an alternate methane destruction device is required.	$2,100,000	Yes	Tulare	Yes	236,251

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7	Bos Farms Dairy Biogas	Bos Farms Dairy Biogas	Bos Farms, a General Order dairy in Tulare, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver low pressure biogas to a nearby centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global, and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$1,500,000	Yes	Tulare	Yes	168,398
8	Wreden Ranch Dairy Biogas	Wreden Ranch Dairy Biogas	Wreden Ranch, a General Order dairy in Hanford, CA proposes to build a Tier 1 designed manure only covered lagoon digester with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$3,000,000	Yes	Kings	No	393,915
9	Hollandia Farms Dairy Biogas	Hollandia Farms Dairy Biogas	Hollandia Farms, a General Order dairy in Hanford, CA proposes to build a Tier 1 designed manure only covered lagoon digester with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required	$1,500,000	Yes	Kings	No	178,426
10	Cloverdale Dairy Biogas	Cloverdale Dairy Biogas	Cloverdale, a General Order dairy in Hanford, CA proposes to build a Tier 1 designed manure only covered lagoon digester with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$3,000,000	Yes	Kings	No	360,851
11	Belonave Dairy Biogas LLC	Belonave Dairy Biogas	Belonave Dairy, a General Order dairy in Bakersfield, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications. A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event alternate methane destruction device is required.	$2,450,000	Yes	Kern	No	275,697
12	Hamstra Dairy Biogas	Hamstra Dairy Biogas	Hamstra Dairy, a General Order dairy in Tulare, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. The project will add sand lane and screens for solid separation pre-digester. Blowers will deliver biogas to an adjacent centralized upgrading facility where CO2, N2, O2, and further H2S removal produces biomethane meeting Socal Gas Rule 30 specifications A gas compressor lifts the gas pressure to Socal's Point of Receipt acceptance specification. Gas marketing, dairy processor and hauler commitments guarantee 100% delivery of the projects biomethane as R-CNG for vehicle fuel use in California. California Bioenergy, 4 Creeks Engineering, Anaergia, 4C Global and SoCalGas comprise the project team. A 1MW generator has been permitted for with an emissions mitigation plan in the event an alternate methane destruction device is required.	$2,000,000	Yes	Tulare	Yes	205,115
13	Bar 20 Dairy Biogas, LLC	Bar 20 Dairy Biogas	Bar 20 Dairy, a General Order dairy in Kerman, CA proposes to build a Tier 1 designed manure only covered lagoon with enhanced gas storage, gas pre-treatment and effluent distribution. California Bioenergy, 4Creeks Engineering, 4C Global and Martin Energy comprise the project team. A 2MW generator has been permitted with advanced heat recovery powering an absorption chiller system for cooling milk and a hot water generator to replace the propane boiler. An emissions mitigation plan is implemented as part of the project.	$2,400,000	Yes	Fresno	Yes	288,643

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14	Lone Oak Energy LLC	Lone Oak #2 Net Negative NOx Dairy Digester	The Lone Oak Net Negative NOx Dairy Digester Project is a covered lagoon anaerobic digester processing manure in Fresno County. The project is 100% owned by the host dairy farm family. The methane-rich biogas from the digester will fuel a 1,000 kW electric generator to sell power to the PG&E grid. Upgraded emissions controls and modifications to the dairy operation will result in a net decrease in NOx and criteria pollutants more than offsetting any generator emissions. The project has an executed utility interconnection agreement, has an air permit, and has submitted a complete water board application. The Air District has given notice that the project is anticipated to be except from CEQA. The project is positioned to later join the Five Points Dairy Digester Cluster, which will take advantage of the state's only existing dairy digester pipeline connection to supply biogas for RCNG and other transportation fuel production.	$1,500,000	Yes	Fresno	Yes	176,212
15	Biorem Energy	Vlot Brothers Dairy Project	Draft - Dairy Digester and Bioremediation Project: The project will treat 100 percent of the dairy waste from Vlot Brothers Dairy, using a proprietary technology that will convert the waste to biogas, pathogen free fertilizer, and clean recycled water to be used at the Dairy. The process removes the need for solids separators, land-application of waste material, and the smell associated with large dairy operations. In addition. the pathogen free recycled water will be used as a clean flush, creating a healthier environment for the animals while eliminating the watershed impacts of furrow rows and land application of settling lagoon water. The water conservation will reduce the need for 200 Million gallons of ground water for flushing and cleaning on an annual basis. The project is a wholistic approach to waste management at diary farms and provides cost savings and benefits that create a more viable dairy operation as a long-term partner.	$3,000,000	Yes	Madera	Yes	161,297
16	NIC Investments LLC	River Ranch Net Negative NOx Dairy Digester Project	River Ranch Net Negative NOx Dairy Digester Project is a covered lagoon anaerobic digester processing manure in King's County. The project is 100% owned by the host dairy farm family. The methane-rich biogas from the digester will fuel a 1,500 kW electric generator to sell power to the PG&E grid. Upgraded emissions controls and modifications to the dairy operation will result in a net decrease in NOx and criteria pollutantsâ€”more than offsetting all generator emissions. The project has applied for a utility interconnection agreement and an air permit, and the water board has issued a design approval. King's County has issued a Notice of Exemption from CEQA. The project is positioned to later join the Hanford-Lakeside Digester Cluster, to supply biogas for RCNG and other transportation fuel production.	$1,600,000	Yes	Kings	Yes	190,138
17	Van Der Kooi Power LLC	Van Der Kooi Negative NOx Dairy Digester Project	The Van Der Kooi Net Negative NOx Dairy Digester Project is a covered lagoon anaerobic digester processing manure in Fresno County. The project is 100% owned by the host dairy farm family. The methane-rich biogas from the digester will fuel a 800 kW electric generator to sell power to the PG&E grid. Upgraded emissions controls and modifications to the dairy operation will result in a net decrease in NOx and criteria pollutants more than offsetting all generator emissions. The project has an executed utility interconnection agreement, has an air permit, and the water board acknowledges its application as "substantially complete." The Air District has given notice that the project is anticipated to be except from CEQA. The project is positioned to later join the Five Points Dairy Digester Cluster, which will take advantage of the state's only existing dairy digester pipeline connection to supply biogas for RCNG and other transportation fuel production.	$1,600,000	Yes	Fresno	No	137,736
18	Still Water Power LLC	Still Water Net Negative NOx Dairy Digester	The Still Water Net Negative NOx Dairy Digester Project is a covered lagoon anaerobic digester processing manure in King's County. The project is 100% owned by the host dairy farm family. The methane-rich biogas from the digester will fuel a 1,000 kW electric generator to sell power to the PG&E grid. Upgraded emissions controls and modifications to the dairy operation will result in a net decrease in NOx and criteria pollutants more than offsetting all generator emissions. The project has received a utility system impact study, has applied for an air permit, and the water board acknowledges its application as "substantially complete." A full CEQA application has been completed and is under review at King's County. The project is positioned to later join the Hanford-Lakeside Digester Cluster, or to make it's own connection to the adjacent Socol Gas Pipeline. Both options would supply biogas for RCNG and other transportation fuel production.	$2,700,000	Yes	Kings	Yes	354,674
19	Decade Energy LLC	Decade Dairy Net Negative NOx Digester	Decade Centralized Net Negative NOx Dairy Digester Project is a covered lagoon anaerobic digester in Tulare County. The digester will be located at Decade Dairy while the adjacent Richard Westra Dairy will supply manure via pipeline. The project is 100% owned by the host dairy farm families of Eric Westra, Richard Westra. The methane-rich biogas from the digester will fuel a 800 kW electric generator. Upgraded emissions controls and modifications to the dairy operation will result in a net decrease in NOx and criteria pollutants more than offsetting all generator emissions. The project has a utility interconnection agreement, an air permit, and the water board acknowledges its application as "substantially complete." Tulare County has issued a Notice of Exemption from CEQA. The project is positioned to later join the Hanford-Lakeside Digester Cluster, to supply biogas for RCNG and transportation fuels.	$1,750,000	Yes	Tulare	Yes	222,493

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20	Calgren Dairy Fuels LLC	Bosman Dairy Digester Fuel Pipeline Project	The Bosman Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas combustion and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board acknowledges its application as "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$2,015,496	Yes	Tulare	Yes	472,888
21	Calgren Dairy Fuels LLC	Circle A Dairy Digester Fuel Pipeline Project	The Circle A Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board acknowledges its application as "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$1,050,000	Yes	Tulare	Yes	138,745
22	Calgren Dairy Fuels LLC	Cornerstone Dairy Digester Fuel Pipeline	The Cornerstone Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board acknowledges its application as "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$1,330,287	Yes	Tulare	Yes	194,449
23	Calgren Dairy Fuels LLC	K&M Visser Dairy Digester Fuel Pipeline Project	The K&M Visser Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board acknowledges its application as "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$1,500,000	Yes	Tulare	Yes	205,553
24	Calgren Dairy Fuels LLC	Legacy Dairy Digester Fuel Pipeline	The Legacy Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board acknowledges its application as "substantially complete." A CEQA application has been submitted to Tulare County.	$1,550,000	Yes	Tulare	Yes	207,209
25	Calgren Dairy Fuels LLC	Little Rock Centralized Dairy Digester Fuel Pipeline	The Little Rock Centralized Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure on two farms in Tulare County. This centralized digester will be located at Little Rock Dairy while also receiving manure from the adjacent Blue Moon Farms. The project is owned by Calgren Dairy Fuels and is part of their Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has 100% of the its pipeline easements, an air permit, and the water board states its application is "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$1,575,000	Yes	Tulare	Yes	208,499

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26	Calgren Dairy Fuels LLC	Meadowlake Dairy Digester Fuel Pipeline	The Meadowlake Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board acknowledges its application as "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$2,398,081	Yes	Tulare	Yes	366,221
27	Calgren Dairy Fuels LLC	Pixley Dairy Digester Fuel Pipeline Project	The Pixley Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board acknowledges its application as "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$1,600,000	Yes	Tulare	Yes	215,321
28	Calgren Dairy Fuels LLC	R Vander Eyk Dairy Digester Fuel Pipeline Project	The Robert Vander Eyk Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board says its application is "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$1,000,000	Yes	Tulare	Yes	132,586
29	Calgren Dairy Fuels LLC	Williams Family Dairy Digester Fuel Pipeline	The Williams Family Dairy Digester Fuel Pipeline Project is a covered lagoon anaerobic digester processing manure in Tulare County. The project is owned by Calgren Dairy Fuels, which will construct it at no cost to the dairy and will make guaranteed payments to the dairy. The project is part of the Calgren Dairy Fuels Cluster. The methane-rich biogas from the digester will be supplied via private pipeline to fuel two 5MW gas turbines that power the Calgren ethanol refinery creating low carbon transportation fuels. The project will offset existing natural gas use and will result in a net decrease in NOx and criteria pollutants. The cluster will install a RCNG station and later connect to the utility pipeline to supply more RCNG stations. The project has secured 100% of the necessary pipeline easements, an air permit, and the water board says its application is "substantially complete." Tulare County has issued a Notice of Exemption from CEQA.	$1,500,000	Yes	Tulare	Yes	201,208
30	Aligned Digester Cooperative LLC	Double Diamond Merced Dairy Digester Project	Aligned Digester Co., LLC (dba Aligned Digester Cooperative LLC) has partnered with Double Diamond Dairy & Ranch to develop an anaerobic digester that will produce up to 82,000 MMbtu of renewable natural gas (RNG) to expand the market for near-zero emission natural gas vehicles in the San Joaquin Valley. Aligned Digesters will construct a new 23 million gallon anaerobic lagoon to treat the manure and flushwater that is produced by the dairy which is today stored and periodically land applied. The resulting gas, which is approximately 60% methane, will be further cleaned to remove most of the carbon dioxide, water and other impurities to produce biomethane for the NGV market. The RNG will be compressed and sold to compressed natural gas fueling stations for local use. The Aligned Digester team is a collaboration of local developers specializing in dairy biogas that have joined forces to leverage the success of the Verwey digesters and expand the renewables market in the region.	$3,000,000	Yes	Merced	Yes	306,668
31	Ruann Dairy, LLC	Ruann Dairy Anaerobic Digester	Ruann Dairy is expanding its dairy operations. As part of the expansion, Ruann Dairy is looking to build an anaerobic digester system. The digester would assist in manure management practices at the dairy while creating renewable energy. Dairy manure will be the digester feedstock to create biogas. The biogas will be conditioned and utilized as fuel to drive an engine/generator. The genset will produce electricity (estimated at 487 kW/hr)for sale to the utility, PG&E, under the BioMAT tariff. The digested manure will be separated, with the solids utilized as cow bedding material. The separated liquid will be stored on-site in a lagoon prior to field spreading.	$2,084,175	Yes	Fresno	Yes	63,157
32	Van Exel Dairy	Van Exel Dairy Anaerobic Digester	Van Exel Dairy is expanding its dairy operations. As part of the expansion, Van Exel Dairy is looking to build an anaerobic digester system. The digester would assist in manure management practices at the dairy while creating renewable energy. Dairy manure will be the digester feedstock to create biogas. The biogas will be conditioned and compressed into renewable compressed natural gas (RCNG). It is estimate that the system will produce approximately 93,000 dekatherms of RCNG annually. The digested manure will be separated, with the solids utilized as cow bedding material. The separated liquid will be stored on-site in a lagoon prior to field spreading.	$3,000,000	Yes	San Joaquin	No	110,579

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
2017 Dairy Digester Research and Development Program
Applications Submitted to CDFA

*The 2017 DDRDP application information was extracted from the online application system as submitted, therefore, CDFA cannot guarantee accuracy of the information. **CalEnivroScreen 2.0 was used to determine which projects may provide benefits to a disadvantaged community (DAC).
*** Total emission reduction is estimated by the applicant and has not been verified.

#	APPLICANT ORGANIZATION	PROJECT TITLE	DESCRIPTION	REQUESTED GRANT FUNDS	MATCHING FUNDS	COUNTY	LOCATED IN DAC	10 YR GHG REDUCTIONS (MTCO2e)
33	Madera DP 2, LLC	Chowchilla Dairy Power	The Chowchilla Dairy Power Project will implement a state-of-the-art, commercial anaerobic digester at Diamond H Dairy in Chowchilla, California to substantially reduce greenhouse gas (GHG) emissions and generate renewable energy. The commercial dairy operation, located in Madera County, was established in 2002 and is owned and operated by Greg Hooker. Biogas produced by the digester will be used to generate renewable electricity, with 100% delivery to the grid within the PG&E service territory. The effective annual output will be approximately 1.1 MW, or 9.5 million kWh/year. Madera DP 2, LLC (the Project Applicant) will serve as the project development and operating company. The Dairy will lease property to Madera DP 2, LLC, and participate in project development and operation under a Project Operating Agreement.	$2,100,000	Yes	Madera	Yes	261,059
34	Aligned Digester Cooperative LLC	Costa View Madera Dairy Digester Project	Aligned Digester Co., LLC (dba Aligned Digester Cooperative LLC) has partnered with Costa View Farms to develop an anaerobic digester that will produce up to 85,000 MMbtu of renewable natural gas (RNG) to expand the market for near-zero emission natural gas vehicles in the San Joaquin Valley. Aligned Digesters will construct a new 23 million gallon anaerobic lagoon to treat the manure and flushwater that is produced by the dairy which is today stored and periodically land applied. The resulting gas, which is approximately 60% methane, will be further cleaned to remove most of the carbon dioxide, water and other impurities to produce biomethane for the NGV market. The RNG will be compressed and sold to compressed natural gas fueling stations for local use. The Aligned Digester team is a collaboration of local developers specializing in dairy biogas that have joined forces to leverage the success of the Verwey digesters and expand the renewables market in the region.	$3,000,000	Yes	Madera	Yes	327,658
35	Aligned Digester Cooperative LLC	Red Top Madera Dairy Digester Project	Aligned Digester Co., LLC (dba Aligned Digester Cooperative LLC) has partnered with Red Top Jerseys Dairy to develop an anaerobic digester that will produce up to 63,000 MMbtu of renewable natural gas (RNG) to expand the market for near-zero emission natural gas vehicles in the San Joaquin Valley. Aligned Digesters will construct a new 21 million gallon anaerobic lagoon to treat the manure and flushwater that is produced by the dairy which is today stored and periodically land applied. The resulting gas, which is approximately 60% methane, will be further cleaned to remove most of the carbon dioxide, water and other impurities to produce biomethane for the NGV market. The RNG will be compressed and sold to compressed natural gas fueling stations for local use. The Aligned Digester team is a collaboration of local developers specializing in dairy biogas that have joined forces to leverage the success of the Verwey digesters and expand the renewables market in the region.	$3,000,000	Yes	Madera	Yes	282,475
36	Aligned Digester Cooperative LLC	Diamond D Kings Dairy Digester Project	Aligned Digester Co., LLC (dba Aligned Digester Cooperative LLC) has partnered with Diamond D Dairy to develop an anaerobic digester that will produce up to 50,000 MMbtu of renewable natural gas (RNG) to expand the market for near-zero emission natural gas vehicles in the San Joaquin Valley. Aligned Digesters will construct a new 14 million gallon anaerobic lagoon to treat the manure and flushwater that is produced by the dairy which is today stored and periodically land applied. The resulting gas, which is approximately 60% methane, will be further cleaned to remove most of the carbon dioxide, water and other impurities to produce biomethane for the NGV market. The RNG will be compressed and sold to compressed natural gas fueling stations for local use. The Aligned Digester team is a collaboration of local developers specializing in dairy biogas that have joined forces to leverage the success of the Verwey digesters and expand the renewables market in the region.	$3,000,000	Yes	Kings	Yes	195,797
			Total	**$75,753,039**				**8,454,315**