

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
2024 Dairy Digester Research and Development Program
Applications Submitted to CDFA
Updated on 01/21/2025

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#	Project Title	Description*	County	GHG Emission Reduction Over 10 Years (MTCO ₂ e)**	Requested Grant Funds	Matching Funds
1	Double DJ Dairy Digester Project	The Double DJ Dairy Digester Project will construct a new covered lagoon dairy digester facility for the purpose of capturing manure methane emissions to create carbon-negative transportation fuel while increasing the environmental sustainability of the host dairy, Double DJ Dairy. The Double DJ Dairy Digester Project will capture the biogas from the digested manure, transport it via private pipeline to the Merced Pipeline conditioning facility and then inject the product biomethane directly into the utility pipeline. The project is being developed by Maas Energy Works LLC.	Chowchilla	31,778	\$ 1,600,000.00	\$ 5,384,654.00
2	Matos Energy Digester Project	The Matos Energy Digester Project will construct a new covered lagoon dairy digester facility for the purpose of capturing manure methane emissions to create carbon-negative transportation fuel while increasing the environmental sustainability of the host dairy, Matos Dairy. The Matos Energy Digester Project will capture the biogas from the digested manure, transport it via private pipeline to the Merced Pipeline conditioning facility and then inject the product biomethane directly into the utility pipeline. The project is being developed by Maas Energy Works LLC. Previous AMMP recipient.	Merced	29,973	\$ 1,000,000.00	\$ 5,359,542.00
3	Anchor J Dairy Digester Project	The Anchor J Dairy Digester Project will construct a new covered lagoon dairy digester facility for the purpose of capturing manure methane emissions to create carbon-negative transportation fuel while increasing the environmental sustainability of the host dairy, Anchor J Dairy. The Anchor J Dairy Digester Project will capture the biogas from the digested manure, transport it via private pipeline to the Great Valley Pipeline conditioning facility and then inject the product biomethane directly into the utility pipeline. The project is being developed by Maas Energy Works LLC.	Merced	26,882	\$ 1,600,000.00	\$ 9,012,504.00
4	Azevedo Dairy Digester Project	The Azevedo Dairy Digester Project will construct a new covered lagoon dairy digester facility for the purpose of capturing manure methane emissions to create carbon-negative transportation fuel while increasing the environmental sustainability of the host dairy, Azevedo Dairy. The Azevedo Dairy Digester Project will capture the biogas from the digested manure, transport it via private pipeline to the Merced Pipeline conditioning facility and then inject the product biomethane directly into the utility pipeline. The project is being developed by Maas Energy Works LLC.	Merced	35,213	\$ 1,600,000.00	\$ 4,294,068.00
5	Top Line Dairy Digester Project	The Top Line Dairy Digester Project will construct a new covered lagoon dairy digester facility for the purpose of capturing manure methane emissions to create carbon-negative transportation fuel while increasing the environmental sustainability of the host dairy, Top Line Dairy. The Top Line Dairy Digester Project will capture the biogas from the digested manure, transport it via private pipeline to the Lakeside Pipeline conditioning facility and then inject the product biomethane directly into the utility pipeline. The project is being developed by Maas Energy Works LLC.	Kings	25,225	\$ 1,600,000.00	\$ 4,294,068.00
6	Diamond D Dairy Digester Project	The Diamond D Dairy Digester Project will construct a new covered lagoon dairy digester facility for the purpose of capturing manure methane emissions to create carbon-negative transportation fuel while increasing the environmental sustainability of the host dairy, Diamond D Dairy. The Diamond D Dairy Digester Project will capture the biogas from the digested manure, transport it via private pipeline to the Lakeside Pipeline conditioning facility and then inject the product biomethane directly into the utility pipeline. The project is being developed by Maas Energy Works LLC. Previous AMMP recipient.	Kings	38,043	\$ 1,000,000.00	\$ 4,257,680.00
7	Silva Dairy Digester Project	The Silva Dairy Digester Project will construct a new covered lagoon dairy digester facility for the purpose of capturing manure methane emissions to create carbon-negative transportation fuel while increasing the environmental sustainability of the host dairy, Silva Dairy. The Silva Dairy Digester Project will capture the biogas from the digested manure, transport it via private pipeline to the Great Valley Pipeline conditioning facility and then inject the product biomethane directly into the utility pipeline. The project is being developed by Maas Energy Works LLC. Previous AMMP recipient.	Merced	18,534	\$ 1,600,000.00	\$ 9,675,578.00

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8	6-X Dairy Biogas LLC	6-X Dairy is part of the developing Gustine dairy biogas to fuel cluster in Merced County, CA. The project is committed to building a shared Tier 1 double-lined, manure-only, covered lagoon digester between three dairies. The digester will include integrated gas storage and pre-treatment. An on-dairy biogas conditioning and upgrading plant will remove hydrogen sulfide and upgrade the biogas to biomethane. The biomethane, meeting PG&E Rules 21 and 29, will be loaded into tube trailers on-site and transported via virtual pipeline to be injected into the nearest available California Bioenergy point of receipt. The project's biomethane will be delivered as R-CNG to fleets and CNG fueling stations in California. California Bioenergy is the project developer.	Stanislaus	207,599	\$ 1,600,000.00	\$ 8,694,099.81
9	Antonio Brasil Dairy Biogas LLC	Antonio Brasil Dairy will install a Tier 1 designed manure only covered lagoon digester with integrated gas storage and pre-treatment. An on-dairy biogas conditioning system will remove hydrogen sulfide and meter and move the clean biogas directly into 3 co-located, ultraclean, high-efficiency Mainspring linear generators interconnected to PG&E. CalBio will generate LCFS credits by directly matching generation and supplying the renewable energy credits to in-state electric vehicle re-charging load. Previous AMMP recipient.	Merced	93,255	\$ 1,000,000.00	\$ 5,977,198.09
10	Bear JR Biogas LLC	Bear JR Biogas is part of the Kern dairy biogas to fuel cluster in Kern County, CA. The project is committed to building a Tier 1 double-lined, manure-only, covered lagoon digester with integrated gas storage and pre-treatment. An on-dairy biogas conditioning system will remove hydrogen sulfide and moisture and then meter and move the clean biogas into a gathering line connecting to a centralized biogas upgrading and interconnection facility. Biomethane, meeting PG&E Rules 21 and 29, will be injected into the co-located point of receipt. The project's biomethane will be delivered as R-CNG to fleets and CNG fueling stations in California. California Bioenergy is the project developer.	Kern	197,913	\$ 1,600,000.00	\$ 8,892,361.59
11	Black Diamond Dairy Biogas LLC	Black Diamond Dairy will install a Tier 1 designed manure only covered lagoon digester with integrated gas storage and pre-treatment. An on-dairy biogas conditioning system will remove hydrogen sulfide and meter and move the clean biogas directly into 4 co-located, ultraclean, high efficiency Mainspring linear generators interconnected to PG&E. CalBio will generate LCFS credits by directly matching generation and supplying the renewable energy credits to in-state electric vehicle re-charging load.	Fresno	134,265	\$ 1,600,000.00	\$ 6,375,625.02
12	John Silveira Dairy Biogas LLC	John Silveira Dairy is part of the developing Gustine dairy biogas to fuel cluster in Merced County, CA. The project is committed to building a Tier 1 double-lined, manure-only, covered lagoon digester with integrated gas storage and pre-treatment. An on-dairy biogas conditioning system will remove hydrogen sulfide and moisture and then meter and move the clean biogas into a gathering line connecting to a centralized biogas upgrading and interconnection facility. Biomethane, meeting PG&E Rules 21 and 29, will be injected into the co-located point of receipt. The project's biomethane will be delivered as R-CNG to fleets and CNG fueling stations in California. California Bioenergy is the project developer. Previous AMMP recipient.	Merced	51,579	\$ 1,000,000.00	\$ 4,551,566.93
13	Pires Dairy Farms Biogas LLC	Pires Dairy Farms is part of the developing Gustine dairy biogas to fuel cluster in Merced County, CA. The project is committed to building a Tier 1 double-lined, manure-only, covered lagoon digester with integrated gas storage and pre-treatment. An on-dairy biogas conditioning system will remove hydrogen sulfide and moisture and then meter and move the clean biogas into a gathering line connecting to a centralized biogas upgrading and interconnection facility. Biomethane, meeting PG&E Rules 21 and 29, will be injected into the co-located point of receipt. The project's biomethane will be delivered as R-CNG to fleets and CNG fueling stations in California. California Bioenergy is the project developer.	Merced	189,708	\$ 1,600,000.00	\$ 10,037,218.33
14	Correia Dairy Biogas LLC	Correia Dairy is part of the developing Gustine dairy biogas to fuel cluster in Merced County, CA. The project is committed to building a Tier 1 double-lined, manure-only, covered lagoon digester with integrated gas storage and pre-treatment. An on-dairy biogas conditioning system will remove hydrogen sulfide and moisture and then meter and move the clean biogas into a gathering line connecting to a centralized biogas upgrading and interconnection facility. Biomethane, meeting PG&E Rules 21 and 29, will be injected into the co-located point of receipt. The project's biomethane will be delivered as R-CNG to fleets and CNG fueling stations in California. California Bioenergy is the project developer. Previous AMMP recipient.	Merced	33,382	\$ 1,000,000.00	\$ 3,417,890.29

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15	Promus Hillcrest Digester, LLC	The Promus Hillcrest Digester LLC project has permits and approvals to begin construction of a covered lagoon anaerobic digester at the Hillcrest Dairy. Biogas from the digester will fuel a generator that produces 1 Megawatt of electricity, which will be used to power electric vehicle (EV) charging stations. The digester captures methane (a potent greenhouse gas), hydrogen sulfide, odor, and other pollutants that would otherwise be emitted from manure and storage lagoons. A post-digester "weeping wall" fine solids settling basin will recover nutrients to produce an organic bio-fertilizer and result in cleaner water for storage lagoons and application fields. Overall, the digester project will greatly reduce emissions compared to current operations, reduce manure odor, and clean up wastewater. The project will also produce the lowest carbon intensity power available for Zero Emission Vehicles (EVs) that will replace vehicles burning diesel and gasoline, further improving air quality. Previous AMMP recipient.	Merced	19,026	\$ 1,000,000.00	\$ 11,179,748.00
16	MB Lucky Lady Digester	Aemetis proposes the construction, installation, and operation of an anaerobic covered lagoon digester at MB Lucky Lady Dairy. The digester is a large, double-lined, and covered pond that works in a plug flow fashion. As manure wastewater from the dairy flush system is pumped into the digester, an equal amount of effluent from digester pond is discharged from the opposite end. The digester cover captures the biogas generated inside the digester that would otherwise be vented to atmosphere from existing wastewater ponds. The typical composition of biogas is approximately 60% methane and 40% carbon dioxide. Digester effluent from the pond will gravity flow to the existing wastewater storage pond(s) as permitted by the dairy's exist.	Stanislaus	69,854	\$ 1,600,000.00	\$ 2,490,795.00
17	Jordao Digester	Aemetis proposes the construction, installation, and operation of an anaerobic covered lagoon digester at Jordao Dairy. The digester is a large, double-lined, and covered pond that works in a plug flow fashion. As manure wastewater from the dairy flush system is pumped into the digester, an equal amount of effluent from digester pond is discharged from the opposite end. Captured biogas is pretreated locally at the "biogas skid" before being sent to the Aemetis Advanced Fuels Keyes (AAFK) facility via a private biogas pipeline. The pretreatment process includes removing hydrogen sulfide (H ₂ S) using passive media vessels, compression, and dehydration (moisture removal). Once at AAFK, the biogas will be upgraded to biomethane (RNG) for use as a transportation fuel. Previous AMMP recipient.	Stanislaus	56,956	\$ 1,000,000.00	\$ 3,090,795.00
18	GJ Silva Dairy	Aemetis proposes the construction, installation, and operation of an anaerobic covered lagoon digester at GJ Silva Dairy. The digester is a large, double-lined, and covered pond that works in a plug flow fashion. As manure wastewater from the dairy flush system is pumped into the digester, an equal amount of effluent from digester pond is discharged from the opposite end. Captured biogas is pretreated locally at the "biogas skid" before being sent to the Aemetis Advanced Fuels Keyes (AAFK) facility via a private biogas pipeline. The pretreatment process includes removing hydrogen sulfide (H ₂ S) using passive media vessels, compression, and dehydration (moisture removal). Once at AAFK, the biogas will be upgraded to biomethane (RNG) for use as a transportation fuel.	Stanislaus	180,728	\$ 1,600,000.00	\$ 2,490,795.00
19	Zylstra Digester	Aemetis proposes the construction, installation, and operation of an anaerobic covered lagoon digester at Zylstra Dairy. The digester is a large, double-lined, and covered pond that works in a plug flow fashion. As manure wastewater from the dairy flush system is pumped into the digester, an equal amount of effluent from digester pond is discharged from the opposite end. Captured biogas is pretreated locally at the "biogas skid" before being sent to the Aemetis Advanced Fuels Keyes (AAFK) facility via a private biogas pipeline. The pretreatment process includes removing hydrogen sulfide (H ₂ S) using passive media vessels, compression, and dehydration (moisture removal). Once at AAFK, the biogas will be upgraded to biomethane (RNG) for use as a transportation fuel. Previous AMMP recipient.	Stanislaus	103,334	\$ 1,000,000.00	\$ 2,945,457.00
20	Joe Rocha Digester	Aemetis proposes the construction, installation, and operation of an anaerobic covered lagoon digester at Joe Rocha Dairy. The digester is a large, double-lined, and covered pond that works in a plug flow fashion. As manure wastewater from the dairy flush system is pumped into the digester, an equal amount of effluent from digester pond is discharged from the opposite end. Captured biogas is pretreated locally at the "biogas skid" before being sent to the Aemetis Advanced Fuels Keyes (AAFK) facility via a private biogas pipeline. The pretreatment process includes removing hydrogen sulfide (H ₂ S) using passive media vessels, compression, and dehydration (moisture removal). Once at AAFK, the biogas will be upgraded to biomethane (RNG) for use as a transportation fuel.	Stanislaus	95,414	\$ 1,600,000.00	\$ 2,490,795.00

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21	Lawrence Dairy Digester Facility	Lawrence Dairy Digester Facility is a tank and covered lagoon anerobic digester project converting dairy manure streams to methane rich biogas, clean animal bedding, soil amendment materials and improved water quality in the dairy's existing lagoon system.	Kings	-828,622	\$ 1,600,000.00	\$ 13,077,557.00
22	Four Star Dairy Digester Facility	Four Star Dairy Digester Facility is a stand-alone covered lagoon digester converting dairy manure into methane rich biogas and improving the dairy's lagoon water quality.	Kings	-596,083	\$ 1,600,000.00	\$ 6,445,127.50
			Total	213,956	\$ 30,400,000.00	\$ 134,435,123.56