

**CALIFORNIA ALTERNATIVE ENERGY AND
ADVANCED TRANSPORTATION FINANCING AUTHORITY**

Board Meeting Date: Tuesday, June 17, 2025

Request to Approve Project for a Sales and Use Tax Exclusion¹

**6-X Dairy Biogas LLC
Application No. 25-SM024**

Prepared By: *Joshua Moua, Program Analyst*

SUMMARY

Applicant: 6-X Dairy Biogas LLC

Location: Modesto, Stanislaus County

Industry: Dairy Biogas

Project: New Dairy Biogas Facility (Alternative Source)

Project Pool: Small

Value of Qualified Property	Estimated Sales and Use Tax Exclusion (“STE”) Amount ²
\$6,402,766	\$542,955

Estimated Net Benefit ³	Dollar Value	Points Earned
Estimated Fiscal Benefits	\$749,861	1,381
Estimated Environmental Benefits	\$201,031	370
Additional Benefits	N/A	137
Total	\$950,892	1,888
Estimated Quantifiable Net Benefit	\$407,937	N/A

Competitive Criteria Score: 147

Staff Recommendation: Approval

¹ All capitalized terms not defined in this document are defined in the STE Program’s statutes and regulations.

² This amount is calculated based on the average statewide sales tax rate of 8.48%.

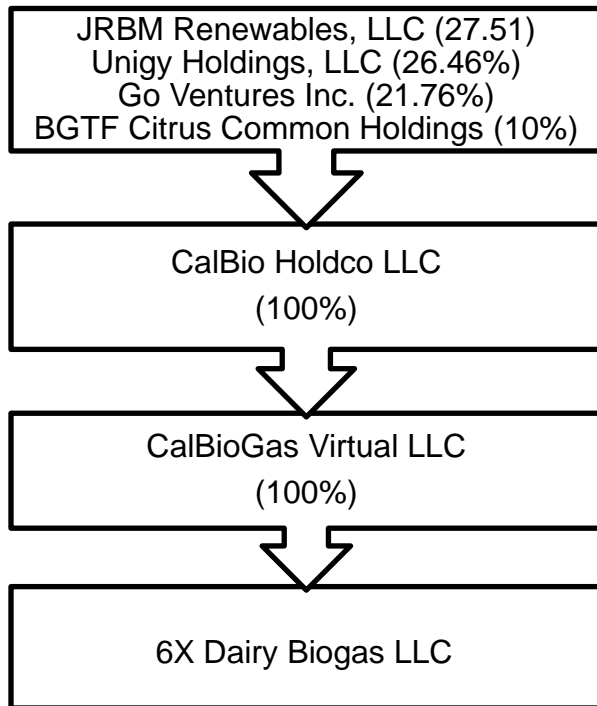
³ Applications that earn a Total Score of at least 1,000 points and an Environmental Benefits Score of over 20 points may be recommended for approval. (California Code of Regulations Title 4, Division 13, Section 10033(c)(6).)

THE APPLICANT

6-X Dairy Biogas LLC (the “Applicant”), formed in California as a limited liability company in 2024. The Applicant is headquartered in Visalia. 6-X Dairy Biogas will process biogas into biomethane, also known as renewable natural gas (RNG) and sell it directly or indirectly through distributors as a renewable fuel known as R-CNG exclusively in California fueling stations.

The Applicant was approved for CDFA grant award in the amount of \$1.6 million in April 2025. According to the Applicant, it is currently in the agreement phase.

The ownership structure (10.0% or greater) of the Applicant is as follows:



The company officers of the Applicant are:

- N. Ross Buckenham, Chief Executive Officer
- Abdulla Kagalwalla, Chief Financial Officer
- David De Groot, Chief Operating Officer

THE PROJECT

6-X Dairy Biogas LLC requests a sales and use tax exclusion (“STE”) award to build a new dairy biogas facility located in Modesto (the “Project”).

The Applicant will build a stand-alone digester to process all the flush manure from the dairy. The digester is based on CalBio’s Version 5.0 design, which features a Tier 1 double-lined lagoon with advanced gas storage, sludge removal, and in-situ hydrogen sulfide removal. This design builds on four prior generations of experience, and

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integrates Mainspring Linear Generators technology, making this an advanced and maintainable digester developed for a modern Central Valley California flush dairy.

The primary product of the Project will be RNG and the RNG will be upgraded with a 250 SCFM biogas conditioning plant, using membrane technology to produce 98% pure biomethane without the need for chemicals. The facility will incorporate advanced biogas conditioning, an on-site upgrading plant, and a truck loading system to transport biomethane through a virtual pipeline to an existing cluster's utility point of receipt, with an optional interconnection to the SoCalGas point of receipt.

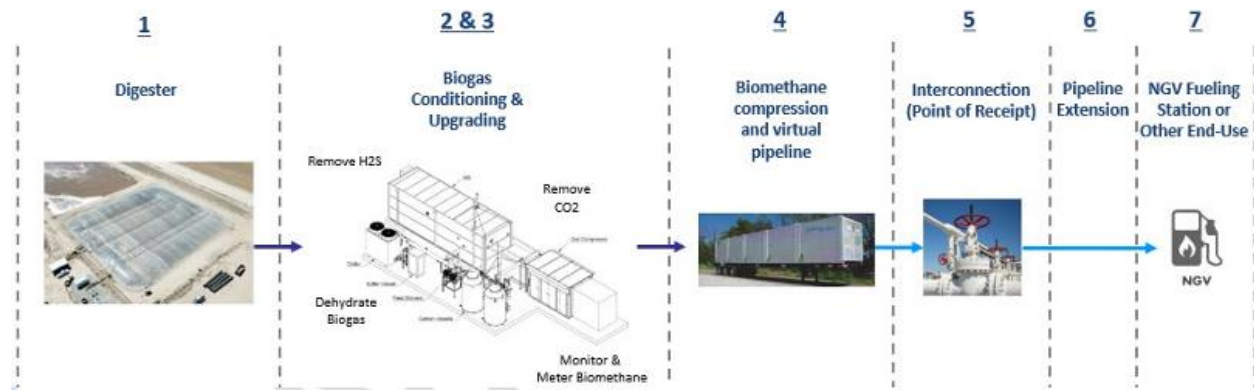


Figure 1: RNG Process

Anticipated Costs of Qualified Property

The anticipated Qualified Property purchases are listed below:

Anticipated Qualified Property Purchases		Cost
Digester		\$3,343,332
Gas Upgrading System		\$3,059,434
Total		\$6,402,766

Note: The Qualified Property purchases reported in the Application and shown here in the staff report are estimated costs. In accordance with the Regulatory Agreement, a finalized Project equipment list will be prepared detailing the value of the Project equipment actually acquired, and the estimated tax benefit realized pursuant to Revenue and Tax Code Section 6010.8. Variance from the costs shown in the Application and in this report may occur prior to the closing due to increased costs of certain components of the Project over original estimates, and other reasons. In addition, those costs may vary after closing due to increased costs, common design and equipment modifications during construction, differences in equipment due to future changes in statute or regulation, or for other reasons.

Timeline

Upon permit approval, construction on the Project will begin in November 2025 and finish by October 2026.

Status of Permits/Other Required Approvals

The Applicant expects to receive its CEQA, air, waterboard and building permits with the Stanislaus County, San Joaquin Valley Air Pollution Control District, and Central Valley Regional Water Quality Control Board by Q3 2025.

COMPETITIVE CRITERIA SCORE

The Applicant received 147 Competitive Criteria points as follows:

1. **Environmental Benefits (100 of 100 points)**. The Application has a Project that produces an Alternative Source product, component, or system, and, therefore, 100 points are awarded.
2. **Unemployment (32 of 50 points)**. The Applicant's Project is located in Stanislaus County, which has an average annual unemployment rate of 7%.⁴ When compared to the statewide average annual unemployment rate of 5.3%, the Project location earned the Applicant 32 points.
3. **Job Creation (0 of 75 points)**. The Applicant anticipates the Project will support a total of two production-related jobs at its Facility. CAEATFA estimates that approximately 0.27 of these jobs will be attributable to a marginal increase in jobs created due to the STE. Based on the amount of STE per estimated number of jobs created, the Applicant earned zero points.
4. **California Headquarters (15 of 15 points)**. The Applicant maintains its corporate headquarters in Visalia, California, 15 points are awarded.
5. **Natural Disaster Relief (0 of 50 points)**. The Project is not to rebuild or relocate the Applicant's Facility due to a fire, flood, storm, or earthquake identified in a state of emergency proclaimed by the Governor within two years of the time of application, and, therefore, zero points are awarded.
6. **Eligibility for Manufacturing and Research and Development Equipment Exemption (0 of 50 points)**. The Applicant is eligible to use one or more of the exemptions established pursuant to Section 6377.1 of the Revenue and Taxation Code, and, therefore, zero points are awarded.
7. **Emerging Strategic Industry (0 of 75 points)**. The Project's industry is not in an Emerging Strategic Industry, as defined by CAEATFA, zero points are awarded.

PROJECT EVALUATION

Project Benefits

The Project received a Total Score of 1,888 points, which exceeds the required 1,000-point threshold, and includes an Environmental Benefits Score of 370 points, exceeding the 20-point threshold.

1. **Fiscal Benefits (1,381 points)**. The net present value of the total fiscal benefits over the lifetime of the Qualified Property is derived from the Applicant's sales and use taxes, personal income taxes paid by the firm's employees, firm taxes on profits,

⁴ Unemployment rates are based on data available in October 2024.

property taxes, and other indirect fiscal benefits of the Applicant. The total fiscal benefits amount to \$749,861 resulting in a Fiscal Benefits score of 1,381.

2. **Environmental Benefits (370 points)**. The Project is anticipated to result in \$201,031 of total pollution benefits over the life of the Project, resulting in an Environmental Benefits Score of 370 points. These benefits derive from the production of dairy biogas, which offsets the need for fossil methane.
3. **Additional Benefits (137 points)**. Applicants may earn “Additional Benefits” points in the categories listed below. The Applicant received 137 Additional Benefits points.
 - A. **Production Jobs (0 of 75 points)**. The Applicant anticipates the Project will support a total of two production-related jobs at its Facility. CAEATFA estimates that approximately 0.27 of these jobs will be attributable to a marginal increase in jobs created due to the STE. Based on the amount of STE per estimated number of jobs created, the Applicant earned zero points.
 - B. **Construction Jobs (55 of 75 points)**. The Applicant anticipates the Project will support a total of 34 construction jobs at its Facility. CAEATFA estimates that approximately 4.49 of these jobs will be attributable to a marginal increase in jobs created due to the STE. Based on the amount of STE per estimated number of jobs created, the Applicant earned 55 points.
 - C. **Unemployment (32 of 50 points)**. The Applicant’s Project is located in Stanislaus County, which has an average annual unemployment rate of 7.6%. When compared to the statewide average annual unemployment rate of 5.3%, the Project location earned the Applicant 32 points.
 - D. **Workforce Partnerships (25 of 25 points)**. The Applicant has a partnership with College of the Sequoias and Fresno State University for the purpose of assisting in the training of potential future workers.
 - E. **Benefits and Fringe Benefits (25 of 25 points)**. The Applicant states it provides medical, health, dental, & vision benefits, bonuses, retirement contributions, education reimbursement, and paid leave to its employees, earning the Applicant 25 points.

LEGAL STATUS QUESTIONNAIRE

The Applicant had nothing to report on the Legal Status Questionnaire.

CAEATFA FEES

In accordance with STE Program regulations,⁵ the Applicant has paid CAEATFA an Application Fee of \$3,201.38 and will pay CAEATFA an Administrative Fee of up to \$25,611.06 should the Applicant be approved for an award.

⁵ California Code of Regulations Title 4, Division 13, Section 10036

RECOMMENDATION

Staff recommends the approval of Resolution No. 25-SM024-01 for 6-X Dairy Biogas LLC's purchase of qualifying tangible personal property in an amount not to exceed \$6,402,766, anticipated to result in an approximate STE value of \$542,955. The initial term of the Regulatory Agreement will be for a period of three years, until June 17, 2028, and the remainder shall be for a period of 10 years, until June 17, 2035, for providing annual compliance reports.

**RESOLUTION APPROVING AND AUTHORIZING EXECUTION OF A
REGULATORY AGREEMENT WITH 6-X DAIRY BIOGAS LLC**

June 17, 2025

WHEREAS, the California Alternative Energy and Advanced Transportation Financing Authority (the “Authority”) has received the Application of **6-X Dairy Biogas LLC** (the “Applicant”) for financial assistance under the Sales and Use Tax Exclusion Program, as established in Public Resources Code Section 26011.8; and

WHEREAS, the Applicant qualifies as a Participating Party under Public Resources Code Section 26011.8 and Revenue and Taxation Code Section 6010.8; and

WHEREAS, the Applicant’s qualifying tangible personal property meets the requirements of a Project under Public Resources Code Section 26011.8 and Revenue and Taxation Code Section 6010.8 (the “Project”); and

WHEREAS, after the Authority approves an Application, the Authority enters into a Regulatory Agreement, as described in Authority Regulations Section 10035(a), with the Applicant for the Project; and

WHEREAS, the Applicant has stated the Project has an estimated cost not to exceed \$6,402,766 over a period of three (3) years; and

WHEREAS, the Applicant asserts that this form of financial assistance will enable it to avail itself of the benefits of an exclusion from sales and use taxes relative to the Project pursuant to Revenue and Taxation Code Section 6010.8; and

WHEREAS, the approval of the terms of the Regulatory Agreement and authority for the Executive Director or Chair of the Authority to execute the necessary documents to effectuate the Regulatory Agreement is now sought;

NOW, THEREFORE, BE IT RESOLVED by the California Alternative Energy and Advanced Transportation Financing Authority, as follows:

Section 1. The Regulatory Agreement includes a Project within the meaning of Public Resources Code Section 26003(a)(8)(B).

Section 2. The Regulatory Agreement constitutes financial assistance within the meaning of Public Resources Code Section 26003(a)(6).

Section 3. The Applicant is a participating party within the meaning of Public Resources Code Section 26003(a)(7).

Section 4. The Executive Director or Chair of the Authority (the “Authorized Signatories”) are hereby authorized for and on behalf of the Authority to approve any changes to the Project as the Authorized Signatories deem appropriate, provided that

the amount of the qualifying tangible personal property to be purchased for the Project may not be increased above the amount approved by the Authority.

Section 5. The proposed form of the Regulatory Agreement between the Applicant and the Authority, as filed with the Authority prior to this public meeting, is hereby approved. For, on behalf and in the name of the Authority, the Authorized Signatories are hereby authorized and directed to execute, acknowledge, and deliver to the Applicant the Regulatory Agreement in substantially the form filed with or approved by the Authority.

The Regulatory Agreement may contain insertions, deletions or changes as the Authorized Signatories executing the Regulatory Agreement may require or approve, including particular information inserted in substantial conformance with the staff summary and in the Application to the Authority. The approval of the Regulatory Agreement will be conclusively evidenced by the execution and delivery of the final Regulatory Agreement.

The Authority understands and agrees that, pursuant to the terms of the Regulatory Agreement, the obligations of the Applicant, under some circumstances, may be carried out or assumed by a successor or assignee entity, or by an affiliate of the Applicant.

Section 6. Each of the Authorized Signatories, acting alone, is hereby authorized and directed to do any and all ministerial acts, including, without limitation, the execution and delivery of any and all documents and certificates they may deem necessary or advisable to consummate the Regulatory Agreement and otherwise effectuate the purposes of this Resolution.

Section 7. The Applicant shall ensure that all of the qualifying tangible personal property acquired as part of the Project that is listed in the semi-annual reports provided to the Authority pursuant to the Regulatory Agreement will be installed, maintained and operated in compliance with all applicable local, state and federal laws.

Section 8. The Regulatory Agreement shall only apply to qualifying tangible personal property acquired as part of the Project that the Applicant certifies will be installed, maintained and operated at facilities physically located within the State of California.

Section 9. Neither the adoption by the Authority of this Resolution for the Applicant nor the Regulatory Agreement may be referred to in any application before any governmental agency as evidence of the feasibility, practicality or suitability of the Project and may not be referred to in any application for any required permission or authority to acquire, construct or operate the Project.

Section 10. This Resolution is effective immediately and will remain in full force and effect unless the Regulatory Agreement is not executed within thirty (30) days of

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the date of this Resolution. The Executive Director may extend the thirty (30) days if necessary.