

Yolo Landfill

Gas-to-RNG

Facility



Department of Community Services
Division of Integrated Waste Management

HISTORY

- The Yolo County Central Landfill (YCCL) opened in 1975.
- By 1988, YCCL was required to capture methane emissions generated by the decomposition of waste.
- YCCL has operated a gas-to-electricity facility on reciprocating engines for the last 35+ years.
- Our offtake agreement with SMUD expires on 6/30/26.

Yolo County Central Landfill Renewable Natural Gas (RNG) Plant

History

The Yolo County Central Landfill (YCCL) opened in 1975 and by 1988 was required to capture methane emissions, generated by the decomposition of waste. Currently, YCCL operates five diesel engines, which, when combined, deliver 1,600 cubic feet per minute of gas flow and convert methane into electricity that powers 3,000 homes. Our oldest engine was installed in 1991, and the newest is a 2006 model. Repairing these engines is currently costing the Sanitation Enterprise Fund over \$1M annually in repairs.

Through a complete RFP process, YCCL has successfully negotiated a new agreement with Redtail Renewable that is set to come to the Board of Supervisors for approval in May of 2026.

Benefits

- Minimum royalty \$500K annually
- Long-term solution for fugitive methane emissions
- Electricity and heat from RNG can help all cities meet their SB 1383 procurement targets
- Infrastructure and ongoing maintenance costs are 100% on Redtail Renewables
- Meets Countywide Climate Action and Adaptation Plan (CAAP) goals

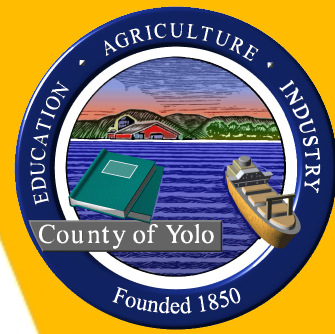
BIOGAS

177 Gas Wells
3,000 Mw
200,000 tons of waste

Sustainable
Environment

Operational
Excellence

Robust
Economy



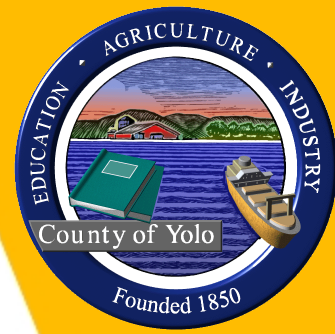
SOLICITATION

- May–July '25 – RFP Process
- Top 3 proposals with Redtail Renewables (Yolo RNG, LLC) ranking highest at 130/150 points
- August '25 to May '26 – Contract Negotiations



COLLABORATION

- Hawkins – Outside legal specializing in energy projects
- PG&E and SMUD
- Yolo County Procurement – RFP
- Yolo County Planning Division – EIR Addendum
- County Counsel
- YCPARMIA – Risk Management Assessment
- Committee on Capital Investments (CCI)



YOLO RNG and REDTAIL RENEWABLES ABOUT US

1

COMPANY

Redtail Renewables partners with communities to reduce emissions from landfills and produce energy. Our projects result in local jobs, improved air quality, and reduced cost to the community for essential services.

2

PEOPLE

Redtail Renewables is founded and run by veterans of the RNG and energy infrastructure industry.
Alex Barrow is VP of Projects & Operations and Robert Morgan is Chief Commercial Officer.

3

PROJECT

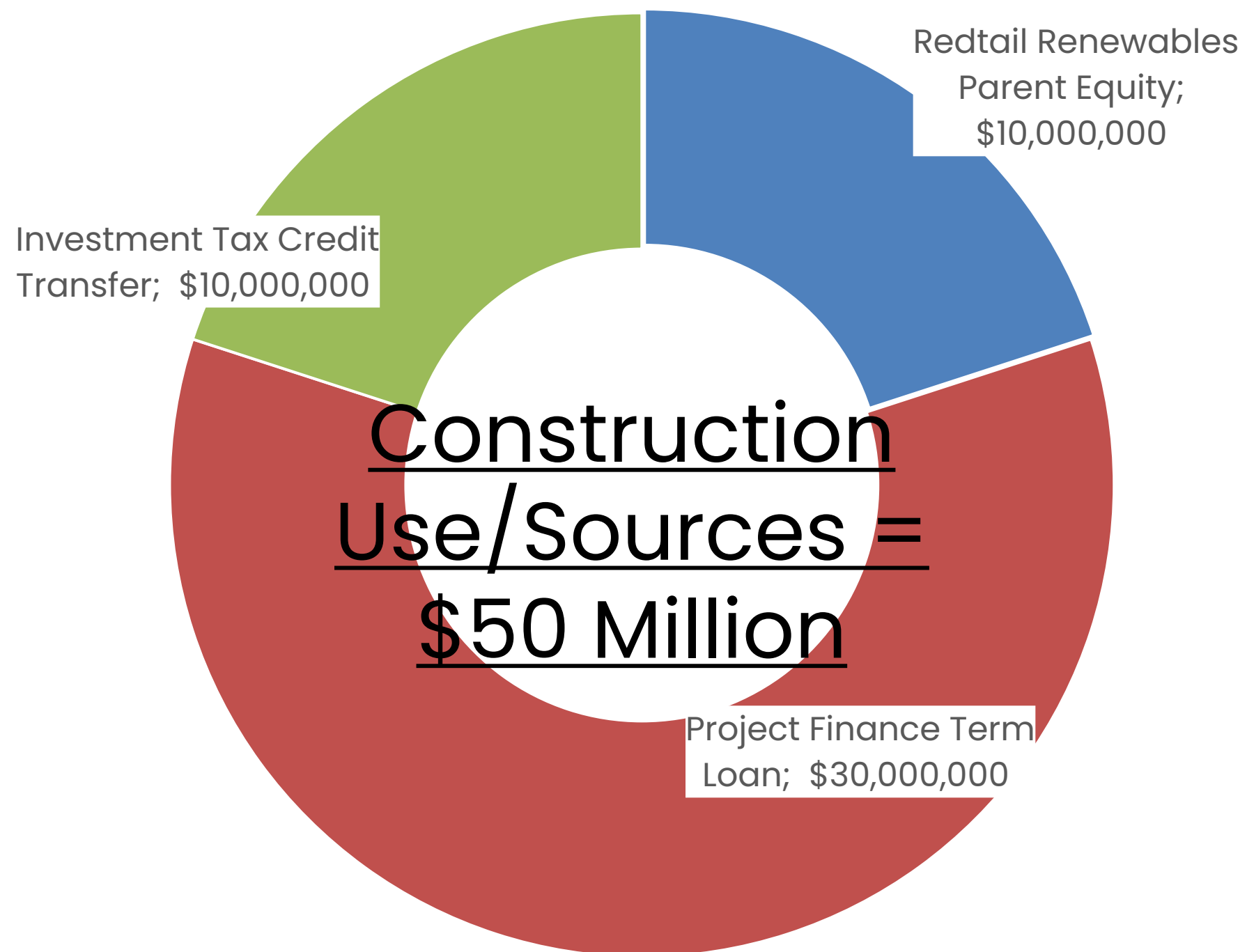
Yolo RNG LLC is 100% owned by Redtail Renewables and was established specifically for the purpose of owning & operating the RNG beneficial reuse project at the Yolo County landfill.

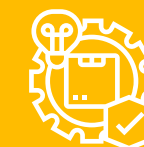
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PARTNERSHIP

Yolo RNG LLC will result in 4-6 full-time jobs, 60 construction jobs; substantial payment of property taxes, Landfill emissions will be mitigated, and once operational, the County will see over \$1M/year.

SOURCE/USE OF FUNDS – YOLO RNG PROJECT





EXISTING FACILITY OPERATIONS JULY 2027

PERMITTING / DESIGN / PROCUREMENT

May 2026 – August 2027

- Detailed design of the planned RNG facility is performed
- Process equipment is specified and procured
- Air permit is prepared and filed
- Wellfield upgrades are planned and designed, with County approval on all details
- Construction drawings are prepared
- Construction contractors are selected

CONSTRUCTION

August 2027 – April 2028

- Existing facility is demolished
- Engines are removed and sent off for refurbishment
- Site is elevated and utilities relocated
- Foundations are poured & equipment set
- Piping, cables, and other infrastructure is installed
- PG&E constructs a gas interconnect
- County owned gas collection system is improved

COMMISSIONING

April – July 2028

- Construction punch-list is complete
- Pre-safety startup review is completed
- Emergency response plan is put into place, with both operators and local emergency responders
- Landfill gas is introduced to the new facility
- RNG production begins!
- Facility placed into service

OPERATIONS

Begins July 2028

- RNG is produced continuously
- County and Redtail employees work together to improve gas collection
- Preventative maintenance plan is implemented

REDTAIL PROJECTS

ENHANCE PARTNER COMMUNITIES

RNG = BENEFICIAL REUSE

Conversion of landfill gas to renewable natural gas mitigates methane emissions and creates a product that displaces geologic methane gas. California's advanced transportation and institutional procurement goals have created a market and incentives for the beneficial reuse of LFG and conversion to RNG.

OPERATING FACILITIES



RECOMMENDED ACTIONS:

- Adopt Addendum #3 to YCCL EIR
- Authorize Chair to sign Agreement with Yolo RNG LLC
- Authorize transfer of the existing landfill Gas-to-Electricity plant and tangible assets to Yolo RNG LLC
- Authorize County Counsel and Department Director to approve minor amendments

STRATEGIC PLAN



SUSTAINABLE ENVIRONMENT

To build a resilient, equitable, and carbon-negative future that efficiently utilizes natural resources.