NLCenergy

AMPLIFYING THE IMPACT OF CARBON REDUCTION THROUGH RENEWABLE ENERGY



THE ORIGINAL JOINT VENTURE



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NLC ENERGY TODAY

n-house capacity of engineering, operations, finance, environmental attribute & gas marketing/monetization	1,200 MMBtu/Day of RNG
Develop, own, operate manure and food waste anaerobic digesters	~8MG at Denmark, WI
st 100% trucked biogas facility approved by LCFS program from multiple farms	3,000 TPD/ Food Grade Dry Ice
Over 70 trucks per day into single facility	14MG of land app annually
First in USA biogas facility approved by ISBT for beverage grade LC02	25-30 TPD/Beverage Grade CO2
13,000 sensors-21 channels monitoring the tanks every 15-minutes	Final Gas purity: 98% CH4 & 99.95% CO ₂
Proprietary simulated real-time biochemical feedstock modeling increases gas production and improves safety	No foaming events.
Decant 3 rd party RNG into a Denmark, WI pipeline	Up to 1,500MMBtu/Day Decant

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Today, NLC Energy has real-world experience and expertise running complex biogas systems, using proprietary intellectual property that augments gas production, enhances reliability, and promotes the long-term health and safety of the digester and the employees.



Elk Hills Announcement

NEWS RELEASE



California Resources Corporation Announces Carbon Dioxide Management Agreement with NLC Energy LLC to Sequester CO₂ from New Renewable Natural Gas Facility at Elk Hills Field

Project Aims to Sequester 150,000 Metric Tons of CO₂ Per Annum by 2027

LONG BEACH, CALIFORNIA – November [1], 2023 - California Resources Corporation (NYSE: CRC) today announced Carbon TerraVault JV HoldCo, LLC (CTV JV) has entered into a storage only Carbon Dioxide Management Agreement (CDMA) with NLC Energy LLC (NLCE), a company that designs, builds, owns, and operates renewable natural gas (RNG) facilities that convert organic waste into useful commodities like clean energy, organic nutrients, clean water, organic liquid carbon dioxide, and dry ice, to sequester a minimum of 150,000 metric tons per year (MTPA) of carbon dioxide (CO₂) at the CTV I reservoir.

The CDMA expects NLCE will build a new waste to energy production facility at CTV Clean Energy Park at Elk Hills. This new facility is expected to produce up to 7,000 million British thermal units (MMBtu) per day of RNG from biomass and other agricultural waste feedstock to provide decarbonized energy to other companies' green technology facilities located at the Net Zero Park, and sell into the California market, further reducing the carbon intensity of the state's hard-to-abate sectors.

"This project highlights the value proposition of our CTV Clean Energy Park and its important role within Carbon TerraVault's strategy," said Francisco Leon, CRC's President and Chief Executive Officer. "We welcome NLCE as a trusted partner in developing and furthering California's decarbonization efforts and supporting Kern county's ambitions to become the leading carbon sequestration area in the state."

"Low-carbon, renewable natural gas replaces higher-carbon fuels that are used in transportation, utilities, and manufacturing," said Bruce S. MacDonald, NLCE's Founder and President. "Our clients and partners are continuing to make efforts to meet net-zero carbon emission objectives, and this exciting agreement with CTV opens a new set of growth opportunities for NLCE in California and helps decarbonize California's essential industries."

CDMA Carbon Dioxide

Management Agreement

NLC**energy**

TAIL PIPE CO2 OPTIONS

- 1. Your **#1** priority is always CH4 production.
- 2. Customers want consistent supply.
- 3. Customers want transparency into the feedstock supplies.
- 4. Cost of production is much higher than ethanol plants.
- 5. Dry ice revenue exceeds C02 but requires more equipment and human input.
- 6. ISBT certification is expensive and time consuming and it's **not** a one-time "certification."
- 7. Customers have their own QC requirements that exceed ISBT.
- 8. Chain of custody compliance is required for every truck.
- 9. You'll need a qualified **TEAM**.



 In some parts of the Country the beverage/food grade C02 supply may be constrained and therefore demand a high enough value that it warrants the expense.





PRODUCTION INFO

Typical production of CO2 from AD facility depends on feeds types and digester volume For each optimized 2 MM Gal food waste digester, you can expect to produce **~20 T/day LCO2** NLCEnergyDryIce.com Products include 3mm & 16mm pellets and 5lb blocks Capacity to produce 20k lbs/ice per day





KEY TAKEAWAY(S)

- 1. Do your homework.
- 2. Validate that there is inherent demand in the market?
- 3. 45Q PTC's are likely not an option because of the minimum volume requirements.
- 4. Food grade certification is much easier than beverage grade certification.
- 5. Proximity to the potential end customers is imperative. Trucking costs are high. Sublimation is real.
- 6. Selling C02/Dry Ice is NOT a carbon negative process.

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