

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF SUPERVISORS OF THE COUNTY OF YOLO AUTHORIZING THE DIRECTOR OF INTEGRATED WASTE MANAGEMENT TO APPLY TO THE U.S. DEPARTMENT OF ENERGY-OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY FOR A \$1.5 MILLION GRANT WITH A 20% LOCAL COST SHARE FOR WASTE FEEDSTOCKS AND CONVERSION RESEARCH AND DEVELOPMENT RELATED TO CONVERTING WASTE STREAMS INTO BIOFUELS AND BIOPRODUCTS, AND FURTHER AUTHORIZING THE DIRECTOR OF INTEGRATED WASTE MANAGEMENT TO ACCEPT AND EXECUTE THE GRANT AGREEMENT AND TAKE OTHER RELATED ACTIONS

WHEREAS, grant funds are available from the United States Department of Energy, Office of Energy Efficiency and Renewable Energy, for Waste Feedstocks and Conversion Research and Development (“Grant Program”) to improve the current science and infrastructure for converting waste streams into valuable biofuels and bioproducts that can benefit the local energy economy.

WHEREAS, the County of Yolo, in partnership with T2C-Energy, LLC, a Florida limited liability company (“T2C”), wishes to apply for this grant to demonstrate renewable diesel fuel production from landfill gas and digester gas at the Yolo County Central Landfill and to identify key parameters that will have a significant impact on the permitting, design, capital cost, operation, and maintenance cost of the scale up project.

WHEREAS, T2C has developed and patented a proprietary process called Tri-reforming and Fischer Tropsch Synthesis (trademarked TRIFTS®), by which to convert biogas (landfill gas or digester gas) to liquid transportation fuels. The TRIFTS® process first converts the biogas to syngas (using a tri-reforming catalyst) and then produces liquid hydrocarbon fuels (using a Fischer-Tropsch Synthesis catalyst specifically tailored to produce large fractions of middle distillate fuel).

WHEREAS, the TRIFTS® technology is capable of utilizing both the carbon dioxide and methane portions of biogas and incorporating them into the hydrocarbon backbone of the final fuel product of the process, avoiding costly biogas cleanup processes. This renewable source of diesel resembles its petroleum counterpart both physically and chemically, passing ASTM D975 specifications, and can be used in current day engines with no engine modifications necessary with significant emissions reduction.

WHEREAS, the Grant Application will request \$1,500,000 from the Grant Program for the term of the agreement from September 2022 to September 2025. If the County is awarded \$1,500,000, the County will enter into a subaward agreement with T2C. It is anticipated that of the \$1,500,000, the County will allocate \$700,000 to T2C pursuant to such subaward agreement and the terms of the Grant Program.

WHEREAS, a 20% cost share of allowable research and development costs is required to participate in the Grant Program. However, the cost share may be satisfied with either cash or an in-kind contribution. County and T2C plan to satisfy the 20% cost share with an annual in-kind contribution of labor, benefits, and/or overhead, or pilot unit usage. The County's in-kind contribution requirement will be approximately \$160,000 over the three-year term of the grant agreement (approximately \$53,333 per year). T2C's cost share will be approximately \$140,000 over the three-year term of the grant agreement (approximately \$46,667 per year).

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of the County of Yolo, as follows:

1. The Director of Integrated Waste Management (the "Authorized Representative") or the Authorized Representative's designee is hereby authorized and directed to file a Grant Application with the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, and to take such other actions as necessary to obtain grant funding for Waste Feedstocks and Conversion Research and Development on behalf of the County.

2. If the County is awarded a grant, the Authorized Representative, or his/her designee, is authorized to: (a) negotiate and execute a subaward agreement with T2C in a form approved by County Counsel; (b) negotiate and execute an agreement with the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy accepting a grant for Waste Feedstocks and Conversion Research and Development in a form approved by County Counsel; and (c) execute any amendments to these agreements that may be necessary in a form approved by County Counsel.

3. The County certifies that it will allocate its proportional share of the 20% cost share required by the Grant Program via an in-kind contribution of labor, benefits and/or overhead, and/or pilot unit usage.

4. The Authorized Representative, or the Authorized Representative's designee, is authorized to represent the County in carrying out the County's responsibilities under the grant agreement, including disbursement of funds to subrecipient(s) on behalf of the County and ensuring compliance with applicable state and federal laws.

PASSED AND ADOPTED by the Board of Supervisors of the County of Yolo this 7th day of June, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Angel Barajas, Chair
Yolo County Board of Supervisors

Attest:

Julie Dachtler, Senior Deputy Clerk
Board of Supervisors

Approved as to Form:
Philip J. Pogledich, County Counsel

By: _____
Deputy (Seal)

By: 

Kimberly Hood, Assistant County Counsel