

Clean Sustainable Energy Authority- Grant Round 4- Application Summaries

Application Number	Application Title	Applicant	Project Duration	Summary of Project	Funding Requested	Total Project Cost
C-4-A	Bushel Farm Traceability Dashboard	Bushel Inc.	36 Months	To develop the “Bushel Farm Traceability Dashboard” to aggregate all aspect of faming activities to help increase adoption and production of lower carbon renewable energies.	Grant: \$5,529,362 Loan: \$0	\$12,265,250
C-4-B	SAFuels X	AIC Energy Corp	2 Years	To design, construct and operate a renewable fuels facility and blending plant (SAFX facility).	Grant: \$5 Million Loan: \$25 Million	\$525 Million
C-4-C	Smart Well Hub	SandPro LLC	12 Month to Commercialization	To provide consolidation solutions that improve safety for personnel and the environment, optimizes production and addresses labor challenges using the Smart Well Hub (SWH).	Grant: \$705,000 Loan: \$0	\$1.975 Million
C-4-D	Project Tundra	Minnkota Power Cooperative	Construction- 4 Years & Operations- 20 Years	To demonstrate post combustion carbon capture (PCCC) and carbon dioxide storage in North Dakota, preserving the use of lignite and the associated jobs, ensuring enough reliable and dispatchable power is on the grid, and moving North Dakota closer to its carbon neutral goal.	Grant: \$0 Loan: Up to \$150 Million Additional for a Total of \$250 Million	\$1.4 Billion
C-4-E	Project Phoenix- Manufacturing Bio-Degradable Polymers Using Methane as Feedstock	Newlight Technologies Inc.	35 Months from CSEA Approval	Fund engineering, design, commissioning and startup work for a plant in northwest North Dakota	Grant: \$0 Loan: \$150 Million	\$446 Million

C-4-F	Lignite Combustion Product Enhancements	Lignite Combustion Product Enhancements	30 Months (May 2023-October 2025)	Complete a fully commercialized operation to optimize the beneficial use of both bottom ash material and flue gas desulfurization (FGD) materials at Coal Creek Station.	Grant: \$0 Loan: \$42.58 Million	\$85 Million
C-4-G	Unlocking the Full Potential of Produced Water as a Key Component of Clean Sustainable Energy	Mark Watson	26 Months	To perform technology validation of a field trial; to develop a lithium extraction process- Initial Detailed Design; to produce commercially essential commodity products; and to reduce produced water waste.	Grant: \$5 Million Loan: \$50 Million	\$250,886,700
C-4-H	Enhancement of Energy Infrastructure to Enable Sustainable Resource Management, Stimulate Innovation and Secure Domestic Supply of Critical Minerals	HydroStrat GP, LLC	Pilot Program: 2-3 Years; Commercial Facility 5-7 Years	To provide a cleaner and more sustainable alternative to traditional salt water disposal (SWD) for the oil and gas industry while creating a beneficial use from an existing waste stream.	Grant: \$10 Million Loan: \$0	\$2.3 Billion