

Clean Sustainable Energy Authority- Grant Round 5- Application Summaries

Application Number	Application Title	Applicant	Project Duration	Summary of Project	Funding Requested	Total Project Cost
C-5-A	Clean H2 and N-fertilizer Production Facility	Prairie Horizon Energy Solutions LLC	August 2025- December 2028	To construct large-scale facilities and infrastructure to support the Northern Great Plains (“NGP”) agriculture industry; this project will achieve the necessary next step in building the H2 and n-fertilizer infrastructure that can help diversify North Dakota’s economy, leverage existing energy resources, and reduce the environmental footprint of energy production and use in the region.	Grant: \$0 Loan: \$125 Million	\$2.2 Billion
C-5-B	Spiritwood Fertilizer Project	NextEra Energy Resources Development, LLC	Construction- 5 Years  Operation- 20 Years	To construct a facility in North Dakota that would provide local fertilizer supply, supply chain resiliency, offer improved price stability not subject to price fluctuations in natural gas, and to bring significant economic development to the local community and state.	Grant: \$0 Loan: \$125 Million	\$1.3 Billion
C-5-C	Green Pig Iron Production Facility	Scranton Holding Company/North American Iron, Inc.	First Production of Pig Iron- 2029	To construct a processing facility in North Dakota that produces “green” merchant pig iron by replacing today’s internationally sourced high carbon emission iron with a profitable, near-carbon neutral, Unites States-based solution.	Grant: \$12 Million Loan: \$0	\$27 Million Feasibility/Permitting Phase >\$2 Billion Construction/Operation

C-5-D	Unlocking the Full Potential of Produced Water as a Key Component of Clean Sustainable Energy	Mark Watson	26 Months	To construct and start-up the Wellspring Hydro Chlor-alkali facility. This includes continuing detailed engineering for the facility for equipment installation and process start-up; and securing specialized and long-lead item equipment.	Grant: \$5 Million Loan: \$25 Million	\$327,730,000
C-5-E	Blue Ammonia Facility	Catalyst Midstream (USA) LLC	Construction- 40 Months  25+ Years Projected Life	To design, build, and operate a 3000 MTPD (1.058 million tons/yr) Blue Ammonia Facility in Berthold, ND. The natural gas feedstock supply of 120,000 dekatherms per day will be sourced from various Bakken oil and gas producers in the Williston Basin and transported to the site by WBI Energy Transmission Inc. from their Tioga, ND pipeline terminal.	Grant: \$10 Million Loan: \$27.5 Million	\$960 Million
C-5-G	Marathon Petroleum Dickinson Renewable Fuel Facility Expansion	Energy & Environmental Research Center	24 Months (March 1, 2024- February 28, 2026)	To expend the capacity of the Dickinson renewable fuel facility by up to 90%, diversify its renewable fuel products to support emerging clean fuel demands including sustainable aviation fuel (SAF), implement a pre-treatment unit to accommodate the use of a variety of low-carbon feedstocks, and enhance the hydrogen production facility with carbon capture technology to further reduce the carbon intensity (CI) of renewable fuel manufacture.	Grant: \$10 Million Loan: \$0	\$21,761,930

C-5-H	Demonstration and Scale-Up of a Low-Cost Long-Duration Energy Storage Technology for Lithium-Ion Batteries	Dakota Lithium Materials	3 Years	To construct a 1000 tons/year production line facility at the University of North Dakota (UND) in Grand Forks to demonstrate and scale-up a novel dry-process technology based on resonant acoustic mixing (RAM) for large scale manufacture of lithium iron phosphate (LFP) cathode materials suitable for use in lithium-ion battery (LIB) cell manufacturing.	Grant: \$4 Million Loan: \$0	\$10,250,000
C-5-I	Grand Power- ND Battery Manufacturing Plant	Packet Digital, LLC	36 Months (January 1, 2023- December 31, 2026)	To build an end-to-end Li-ion battery manufacturing facility in North Dakota to produce the most performant batteries with the longer cycle life batteries for autonomous systems. This plant will be a flexible manufacturing facility to produce high energy density batteries and will include raw material receiving & storage, inspection testing, production, quality control, final inspection, compliance, packaging, storage and shipping.	Grant: \$10 Million Loan: \$17,355,992	\$56,558,592
C-5-K	Cerilon GTL	Cerilon GTL ND Inc. (Cerilon)	5 Years	To assist with the FEL 3 (Front-End Engineering and Design) of facility construction, along with advancing the implementation of Carbon Capture and Underground Sequestration (CCUS) and securing long-lead items, such as compressors and separators crucial to the operational success and times lines of the facility.	Grant: \$20 Million Loan: \$80 Million	\$3.6 Billion

C -5-L	NDeV Flare Gas Mitigation Demonstration Project	NDeV-Extiel, LLC	18 Months	To demonstrate a scalable technology that will mitigate existing flare gas impacts from the release of GHG's such as CO2, SO2, Nox, and CH4 and the emission of hazardous combustion products formed inside the flare itself.	Grant: \$3 Million Loan: \$10 Million	\$30 Million
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