

New Technology Implementation Grant (NTIG) Program

Project List¹

2014 Through August 2023

| Project ID | Grantee | Project Category | Project Description | Phase | Location | Area | Grant Amount |
|-------------------|--------------------------------|---------------------|--|-------------|-----------------|-------------|----------------|
| 582-15-53908-1471 | Elbow Creek Wind Project, LLC. | Electricity Storage | NRG Texas Power is the owner and operator of the Energy Storage Project (ESP) at Elbow Creek Wind Farm. NRG has an integrated Lithium-ion (li-ion) battery system providing two megawatts (MW) of electric output of energy from wind and other renewable power. Wind energy captured by the Elbow Creek wind farm and other renewable resources are stored and delivered via the ERCOT system to the Energy Storage System and then in turn delivered back to the electric grid. | Operational | Big Spring, TX | Other | \$1,011,875.00 |
| 582-15-54066-1471 | Austin Energy | Electricity Storage | Austin Energy is the owner and operator of the utility-scale Energy Storage System (ESS), that has an integrated lithium-ion (li-ion) battery system, providing 1.5 megawatts (MW) of electric output and storing up to 3.0 megawatt-hours (MWh) of energy. AE has contracted for an adjacent 2.6 MW solar PV facility. Both facilities are located at AE's Kingsbury substation (KB), located in east Austin. The system will reduce demand during periods of peak energy use. | Operational | Austin, TX | Austin | \$1,000,000.00 |
| 582-15-53907-1471 | Southwest Research Institute | New Technology | Southwest Research Institute in San Antonio installed a stainless-steel baghouse equipped with a combined Activated Carbon Injection (ACI) and Dry Sorbent Injection (DSI) system, providing service to three contiguous buildings in the Fire Technology area. The goal of the emission reduction project is to capture and control emissions of particulate matter, as well as hazardous and toxic air pollutants from the three buildings in the Fire Technology area. Emissions from these buildings are trapped in a common centralized Pollution Abatement System and treated. | Operational | San Antonio, TX | San Antonio | \$500,000.00 |

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| 582-17-70806-2569 | CPS Energy | Electricity Storage | CPS Energy's project consists of a 10-megawatt (MW) / 10-megawatt hour (MWh) lithium-ion battery energy storage system (BESS). The BESS is collocated with a 5 MW utility-scale solar photovoltaic (PV) facility located in San Antonio. Solar energy that is captured by the PV facility is stored by the BESS and delivered back to the electric grid. The project allows emission reductions by shifting clean, renewable energy to peak hours when energy demand is the highest, thereby displacing fossil fuel generation. The project additionally provides emission reduction by supplying frequency regulation to the Electric Reliability Council of Texas (ERCOT) grid. | Operational | San Antonio, TX | San Antonio | \$3,000,000.00 |
| 582-17-72096-2569 | Pedernales Electric Cooperative, Inc. | Electricity Storage | The Pedernales Energy Storage Automation & Management with Solar (PESAMS) project integrates a 2 MW / 4 MWh lithium-ion battery energy storage system (BESS) in Blanco County, Texas, near the newly installed Johnson City solar Photovoltaic array. Solar energy is stored in the batteries and then discharged/shifted to provide predictable and reliable energy to PEC members in rural areas of the Texas Hill Country during peak load demand times (3p.m. - 7p.m.) when the cost for using electricity is the highest. | Operational | Johnson City, TX | Austin | \$1,500,000.00 |
| 582-19-96630-0402 | Vistra Energy Corporation | New Technology | Vistra Energy Corporation will install a carbon capture facility located at Vistra's existing Oak Grove coal power plant. The facility will be installed next to the existing facility and will reroute the flue gas from the operating facility where it will be treated in several towers, compressed, and used for enhanced oil recovery in west Texas. The project's goal is to capture 10,000 of the 13,000 tons of carbon dioxide produced by the facility each day. | Implementation | Franklin, TX | Other | \$3,542,857.00 |
| 582-19-90660-0402 | University of Texas at Arlington | New Technology | University of Texas at Arlington retrofitted two natural gas boilers that produce steam for the campus for heating and process loads. The retrofitted boilers have new burner management and combustion controls to increase efficiency and reduce emissions. The new controls have flue gas recirculation, stack oxygen metering, and trim and staged combustion to reduce the NO _x emissions. | Operational | Arlington, TX | Dallas-Fort Worth | \$99,334.00 |

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| 582-21-23792-NG | ENSTOR Katy Transportation and Storage, LP | Oil and Gas | ENSTOR Katy Storage and Transportation, L.P. is the owner and operator of a gas storage project in Fort Bend County, Texas. The project consists of replacing eight lean-burn natural gas engine drivers used in natural gas storage compression service with eight remanufactured, more efficient, lower emission engines to reduce NO _x , VOC, and particulate matter emissions. They will also install a new three-way catalyst to reduce NO _x , VOC, and PM emissions. | Operational | Katy, TX | Houston-Galveston-Brazoria | \$2,631,091.00 |
| 582-21-23793-NG | Nelson Gardens Energy, LLC | Electricity Storage | Nelson Gardens Energy, LLC is the operator of the generation facilities at Nelson Gardens Landfill, located at 8963 Nelson Road, San Antonio, Texas. They will design and install a hybrid system of landfill gas-to-energy, solar energy, and flow battery storage on a closed landfill through integration of approximately 5.81 MW gross of DC solar generation together with 13 vanadium flow batteries of 78 kW each totaling approximately 1.014 MW at the existing generation site. | Implementation | San Antonio, TX | San Antonio | \$2,011,101.00 |
| 582-23-45840-NG | Maverick Natural Resources, LLC. | Oil and Gas | The project will Electrify actuating valves on 423 wellheads within the ArkLaTex Basin and reduce the pollutants from facilities and other stationary sources in Texas. The Versa valves installed on the Maverick wellheads within the ArkLaTex Basin cannot throttle, which causes them to stay continuously open or closed. To reduce emissions and eliminate over-ranging, the existing valves will be replaced with an electric valve and actuator, powered by solar energy. Implementing this project will reduce emissions of regulated pollutants, such as VOCs and H ₂ S. | Implementation | Tyler-Longview TX | Tyler-Longview | \$1,987,851.00 |
| 582-23-45837-NG | Oxy USA Inc. | Oil and Gas | This project will replace two gas-engine-driven reciprocating compressors with two 1500 HP electric motor-driven reciprocating compressors. The project will install a new relief header from the compressor skid area which will tie into the existing flare system. Finally, the project will also supplement an existing gas-fired line heater with a shell and tube heat exchanger. The project reduces hydrocarbon, hazardous air pollutants and CO ₂ emissions. | Implementation | Midland, TX | Midland | \$1,260,183.91 |

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| 582-23-45838-NG | Farmers Electric Cooperative, Inc. | Electricity Storage | This project is a Li-Ion BESS with a solar array with 2 MW power capacity. It will provide a source of non-dispatchable power via an up to 2 MW capacity (AC) photovoltaic (PV) solar array and a dispatchable 1 MW capacity battery energy storage solution (BESS) to increase capacity during moderate to high power requirement periods. | Implementation | Dallas-Fort Worth, TX | Dallas-Fort Worth | \$2,273,452.00 |
| 582-23-45839-NG | PwrPac, LLC | Electricity Storage | This project is a Li-Ion BESS with a solar array with 1.05 MW power capacity. The project site is located along SH349 in Martin County, Texas. The system would be maintained for a minimum period of 7 years and is primarily intended to help the Texas Electric Grid with resilience and support in times of load shedding or peak loads. | Implementation | Midland, TX | Midland | \$590,000.00 |
| 582-23-45840-NG | CR Permian Processing, LLC. | Oil and Gas | This project will replace a natural gas compressor with an electric compressor. The project consists of replacing one existing Caterpillar (CAT) G3616LE A3 4,735 horsepower (HP) lean-burn natural gas engine used in natural gas residue compression service with a Hyundai 5,000 HP Unit. The goal of the project is to significantly reduce emissions at our Pecos Bend Gas Processing Plant by eliminating emissions, including NOx, VOC, PM, SO ₂ , CO, HCHO, and GHG. | Implementation | Reeves, TX | Reeves | \$644,977.00 |
| 582-23-45841-NG | Colt Midstream, LLC | Oil and Gas | This project will repower two natural gas compressors with new natural gas compressors. This project will repower two of four in-service compressors located at the Huckabay Gas Processing Plant in Erath County, TX. Colt intends to replace one of each with modern Waukesha 7044 S5 1900 engines, which will result in emission reductions in NOx and formaldehydes. | Implementation | Erath, TX | Erath | \$1,230,027.02 |
| 582-23-45844-NG | Unbridled Resources, LLC | Oil and Gas | This project will electrify actuating valves on 264 wellheads within the Western Anadarko Basin. These will be powered by solar energy. The project will reduce pollutants from facilities and other stationary in the West ArkLaTex Basin, located in Hemphill, Wheeler, Roberts, Ochiltree, Lipscomb and Hansford Counties in Texas. As a result, the project will be eliminating emissions of VOCs and H ₂ S from these well locations. | Implementation | Hemphill, Wheeler, Roberts, Ochiltree, Lipscomb, and Hansford, TX | Hemphill, Wheeler, Roberts, Ochiltree, Lipscomb, and Hansford | \$1,254,755.07 |

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| 582-23-45842-NG | Colt Midstream, LLC | Oil and Gas | This project is to repower two of four in-service compressors located at the Ranger Compressor Station in Eastland County, TX. All four engines are White Superior 8G models. This project will replace two of the engines with modern Waukesha 3524 S5 engines, which will result in NO _x and formaldehyde reduction. | Implementation | Eastland, TX | Eastland | \$596,504.07 |
| Total | | | | | | | \$25,134,010.00 |

¹Does not include projects funded and subsequently canceled.