

Texas Commission on Environmental Quality  
Texas Emissions Reduction Plan (TERP)  
New Technology Implementation Grant (NTIG)

Active Projects (does not include projects funded and subsequently canceled)  
2010 through August 2021

APPLICATION NUMBER	NAME	PROJECT CATEGORY	PROJECT DESCRIPTION	PHASE	LOCATION	AREA	GRANT AMOUNT
1 2014-08-0001-NG	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 2 megawatt (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 is 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
2 2014-08-0002-NG	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
3 2014-08-0003-NG	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. This was achieved by ducting emission from these buildings to a common centralized Pollution Abatement System that treats the emissions before releasing them to the atmosphere.	Operational	San Antonio, TX	San Antonio	\$500,000.00
4 2016-08-0002-NG	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 is captured by the PV facility and 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
7 2017-08-0006-NG	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 costs for using electricity is the highest.	Implementation	Dripping Springs, TX	Austin	\$1,500,000.00
2018-08-0002-NG	Vistra Energy Corporation	Electricity Storage	Vistra Energy Corp. engineered, procured, and constructed a 10MW/42MWh battery system co-located at their 180MW Upton 2 solar facility in McCamey, TX. The batteries charge during the day and discharge in the evenings during peak energy use. The batteries are designed to discharge as the solar facility drops below 180MW.	Operational	McCamey, TX	Other	\$1,000,000.00
2019-08-0001-NG	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	\$3,542,857.62

<b>2019-08-0004-NG</b>	University of Texas at Arlington	<b>New Technology</b>	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 NOx and Nitrous Oxide emissions.	Operational	Arlington, TX	Dallas-Fort Worth	<b>\$99,334.38</b>
<b>2020-08-0001-NG</b>	ENSTOR Katy Storage and Transportation, L.P.	<b>New Technology: Oil and Gas</b>	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 and lower emission engines to reduce oxides of nitrogen (NOX), volatile organic compounds (VOC), and particulate matter (PM) emissions. They will also install a new three-way catalyst to reduce NOX, VOC, and PM emissions.	Implementation	Katy, TX	Houston-Galveston-Brazoria	<b>\$2,631,091.00</b>
<b>2020-08-0007-NG</b>	Nelson Gardens Energy, LLC	<b>Electricity Storage</b>	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	<b>\$2,011,101.00</b>
<b>TOTAL</b>							<b>\$16,296,259.00</b>

Prepared by: TCEQ Air Grants Division, 1/6/2022