7.4 Industry Opportunity Menu

Measure 4 *Enhance Industrial Energy Efficiency and Clean Energy Adoption*

ANNUAL GHG EMISSIONS REDUCED IN **2030**
-6,811,370 $MTCO_2e$

ANNUAL GHG EMISSIONS REDUCED IN **2050**
-7,602,720 $MTCO_2e$

DESCRIPTION
Increase efficiency in industrial operations and shift energy use toward low- and zero-carbon sources.

OPPORTUNITY MENU
1. Conduct industrial energy audits and retrofit facilities with efficient motors, drives, HVAC systems, and lighting (F)(<$)(by 2030).
2. Install on-site renewable systems and implement waste heat recovery technologies (M)($$$)(by 2030).
3. Electrify major processes and adopt advanced manufacturing technologies that reduce energy intensity and emissions (HI)($$)(by 2030).

AUTHORITY TO IMPLEMENT
Business Sector

METRICS FOR TRACKING PROGRESS
1. Number of facilities disclosing completion of energy audits
2. Number of facilities disclosing installation of renewable energy systems or waste heat recovery technologies
3. Number of facilities disclosing investment in advanced manufacturing technologies promoting energy efficiency

KEY CO-BENEFITS

Improved air quality, economic growth, health and well-being, cost-savings, workforce development, and improved reliability

INTERSECTION WITH OTHER FUNDING AVAILABILITY

- Industrial Training and Assessment Centers (ITAC)
- Texas Industrial Energy Efficiency Network (TIEEN)
- Onsite Energy Technical Assistance Partnerships (OETAP)
- Better Plants

Measure 5 *Reduce Process Emissions and Advance Carbon Capture*

ANNUAL GHG EMISSIONS REDUCED IN **2030**
18,416,460 $MTCO_2e$

ANNUAL GHG EMISSIONS REDUCED IN **2050**
59,341,940 $MTCO_2e$

DESCRIPTION

Deploy cleaner production technologies and carbon capture solutions to lower industrial emissions.

OPPORTUNITY MENU

1. Identify process-related GHG emissions and adopt leak detection and repair best practices (F)(<$)(by 2030).
2. Deploy process modifications and chemical alternatives to reduce or eliminate high-GWP gases (M)($$)(by 2040).
3. Invest in carbon capture, utilization, and storage (CCUS) for large industrial point sources (HI)($$$)(by 2040).

AUTHORITY TO IMPLEMENT

Business Sector

METRICS FOR TRACKING PROGRESS

1. Number of industrial facilities disclosing implementation of leak detection and repair best practices
2. Number of facilities disclosing the deployment of process modifications and chemical alternatives
3. Number of permits issued for large industrial point source capture

KEY CO-BENEFITS

Improved air quality, economic growth, health and well-being, cost-savings, workforce development, and improved reliability

INTERSECTION WITH OTHER FUNDING AVAILABILITY

- Texas Industrial Energy Efficiency Program (TIEEP)
- NTIG
- Better Plants

Measure 6 *Advance Circular Economy and Waste Reduction in Industrial Processes*

ANNUAL GHG EMISSIONS REDUCED IN **2030**
11,952,710 $MTCO_2e$

ANNUAL GHG EMISSIONS REDUCED IN **2050**
108,280 $MTCO_2e$

DESCRIPTION

Promote material reuse, recycling, and design innovation to minimize waste resource intensity.

OPPORTUNITY MENU

1. Establish baseline material flows and begin diverting waste from landfills through recycling or reuse (F)($$)(by 2040).
2. Redesign production to minimize raw material input and increase use of recycled or bio-based feedstocks (M)($$) (by 2040).
3. Implement closed-loop manufacturing and zero-waste-to-landfill policies across all operational sites (HI)($$$)(by 2040).

AUTHORITY TO IMPLEMENT

Business Sector

METRICS FOR TRACKING PROGRESS

1. Tons of municipal and publicly disclosed industrial waste diverted from landfill annually
2. Number of industrial facilities disclosing implementation of production redesign to increase recycled or bio-based material use
3. Tons of waste diverted from landfills

KEY CO-BENEFITS

Improved air quality, health and well-being, cost-savings, and improved reliability

INTERSECTION WITH OTHER FUNDING AVAILABILITY

- Better Plants