



TDEC Programs Supporting Industry

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Content for Today

- Overview of TDEC programs that serve businesses
- Review of collaborators
- Example of cross-organizational partnership

TDEC has a diverse array of programs geared towards providing technical assistance to manufacturers and where we lack expertise or programming, we collaborate with a variety of partners.

Programming Summary

- Governor's Environmental Stewardship Awards (GESA)
 - Recognize achievements by businesses, organizations, educational institutions and agencies for successful environmental projects and conservation measures.
- Tennessee Green Star Partnership (TGSP)
 - Environmental leadership program that recognizes organizations commitment to sustainable practices within their operations and fosters a network for continuous improvement among manufacturers.
 - SEO contributes "Energy Resiliency" story to quarterly newsletter



Green Star Partners



StanleyBlack&Decker

L A Z B O Y[®]



Programming Summary

- Sustainable Transportation Forum & Expo (STF&E)
 - Annual conference where attendees share and discover projects that can reshape what is possible in transportation and mobility.
- Tennessee Sustainable Spirits (TNSS)
 - Voluntary recognition and technical assistance program which seeks to reduce operational costs and environmental impacts for wineries and wine growers, breweries, and distilleries as well as serve as a gateway to sustainability education through popular brands.



Programming Summary - SBEAP

- Small Business Environmental Assistance Program
 - Provides assistance to help Tennessee small businesses understand and comply with environmental regulations.:
 - **Non-Regulatory** - does not have regulatory authority
 - **Confidential** - serves as a liaison between the regulatory agencies and small businesses
 - **Assistance** – develops outreach opportunities and materials.
 - **Multi-Media** – air, water, and land regulations.

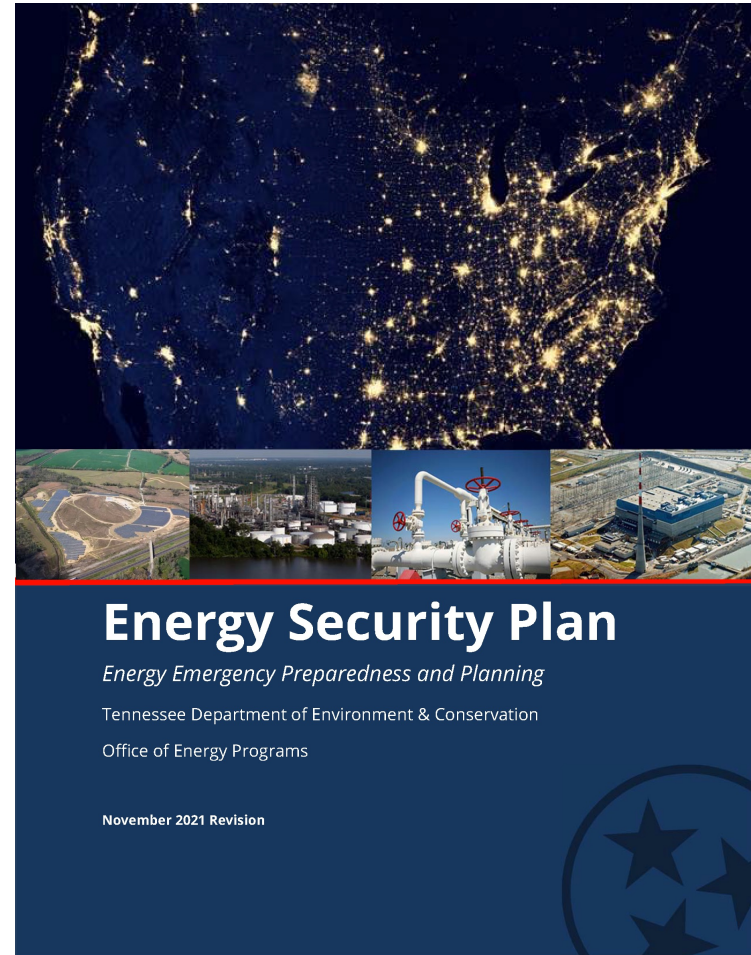


Energy Security Planning

Energy Security Plan

Facilitate energy emergency preparedness and planning to create a rapid response capability for recovery from disasters.

- Outlines the State's responsibilities during an energy emergency, and the coordination of federal and State resources
- Annexes by fuel type for quick briefs
- State Energy Profile
- Revised to reflect operational changes during Colonial Pipeline responses
- Updated to meet Infrastructure Investment and Jobs Act criteria
 - Risk Analysis Planning
 - Grid Resilience Funding





Collaboration

Industrial Assessment Center



Tennessee
TECH

The Industrial Assessment Center is a national program sponsored by DOE's Advanced Manufacturing Office. IACs are located at 37 universities across the country.



Industrial
Assessment
Center
U.S. DEPARTMENT OF ENERGY

No-Cost Services

- On-site energy efficiency assessments for small and medium sized facilities – 1d
- Multi-day visits for larger plants
- Water and wastewater assessments
- Cybersecurity reviews of IT systems
- ISO 50001 consulting

TDEC regularly participates in assessments with the IAC at facilities and provides waste reduction strategies.



IAC Sample Call Agenda & Past Collaboration

- Introductions
- Initiatives by TN Dept. of Environment & Conservation
 - Sustainability webinar on Combined Heat & Power
 - TN Green Tax Credit policy analysis
- Speaking or Event Participation
 - Environmental Show of the South
 - Wastewater Energy Efficiency workshop
- Target Sectors Discussion
 - For-Profit Healthcare
- Promotional Assistance in Newsletters



Best Practices Magazine & Expo



A technical assistance resource focused on helping Energy Managers create energy savings by providing educational content about compressed air systems, chillers and cooling systems, and blower and vacuum systems.

TDEC OSP hosts an annual webinar in collaboration with Best Practices and assists with their annual expo.

Connects facilities seeking technical assistance on compressed air.


WHAT ARE
THE DIFFERENT
COMPRESSED
AIR DRYER
TYPES?





DOE: Onsite Energy at Critical Facilities TAG

- DOE Technology Action Group (pilot)
- 9 States - FL, IO, ME, MN, NC, PE, SC, TN, WA
- National Renewable Energy Laboratory REopt tool
- Phase 1: Critical Facility Prioritization Process
 - Using nationally-available, resilience-related metrics
- Phase 2: Select high-priority critical facility for energy optimization modeling
 - CHP TAP opportunity



 Your recommended solar installation size

880 kW
PV size

 Your recommended battery power and capacity 

225 kW
battery power

1,645 kWh
battery capacity

Example of Recent Collaboration

- September 12 – hosted a pollution prevention focused workshop at Florim
 - Speakers: EPA HQ, IAC, and non-profit partner
 - Strategies for calculating a facility's greenhouse gas emission footprint,
 - Strategies for reducing emissions,
 - Options for in-state carbon offsetting
 - Plant tour to highlight sustainability efforts
 - Brought together three technical assistance providers in TDEC, IAC, and EPA.



Questions?



Bald Eagle Photo by Ranger Steve Ward, Radnor Lake State Park

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<https://www.tn.gov/environment/program-areas/energy/state-energy-office--seo-/programs-projects/programs-and-projects/energy-security.html>



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