

Becoming an Energy Star Building



Texas Workforce Commission's
Experience

Cindy Silberman
Business Operations Director

- An ENERGY STAR certified facility meets strict energy performance standards set by EPA
- Uses less energy
- Is less expensive to operate
- Causes fewer greenhouse gas emissions than its peers



What is an **Energy Star Building?**

- A building or manufacturing plant that earns a **75** or higher on EPA's 1-100 energy performance scale, indicating that the facility performs better than at least 75% of similar buildings nationwide.



75+

What is an **Energy Star Building?**

Five of Eleven TWC-Owned and Managed Buildings including its:

- Main Headquarters – 83
- Trinity Headquarters – 76
- Austin Tax Office – 86
- North Texas Call Center – 80
- Houston Tax Office – 84



Who Made the Grade in 2013?

In the last 5 years, TWC Buildings reduced consumption of:

- **Natural Gas by 33%**
- **Electricity by 21%**
- **Demand by 22%**



How Much Did TWC Save?

- TWC's **Main Building**, and first Energy Star-certified building, saw energy usage decrease from 51,010.92 MMBTU to 38,066.4 MMBTU, or

25.4%

in the last five years;

13.5%

in the last year alone.



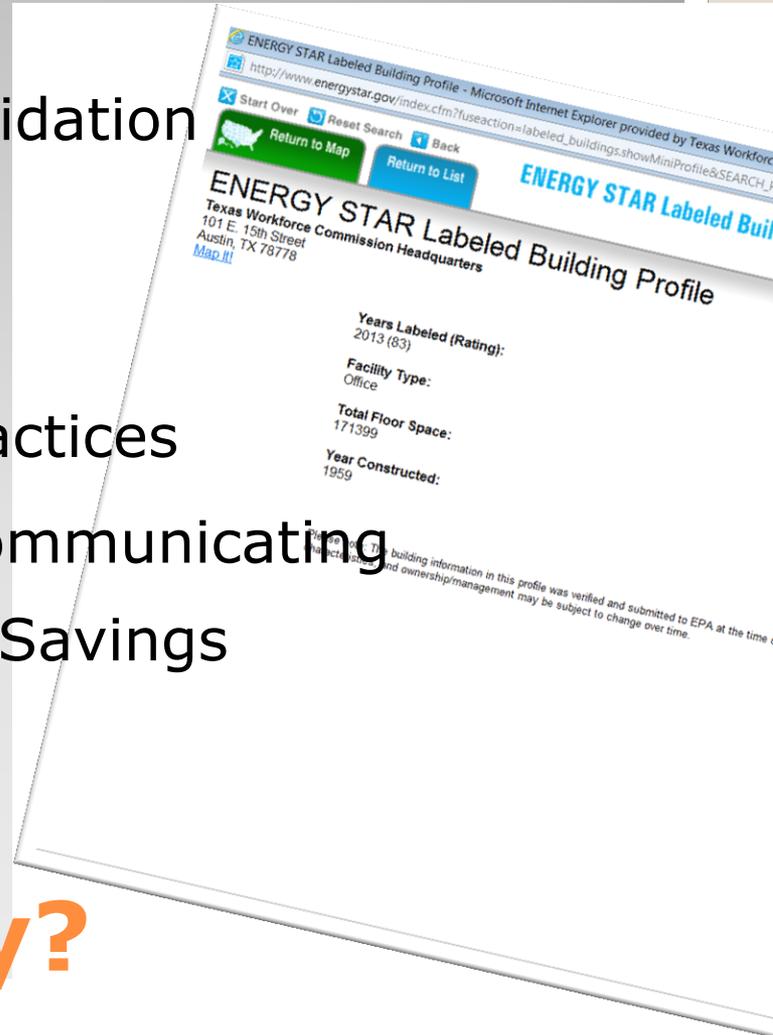
2013 ENERGY STAR
CERTIFIED BUILDING

How Much Did TWC Save?

Energy Star Certification Provided:

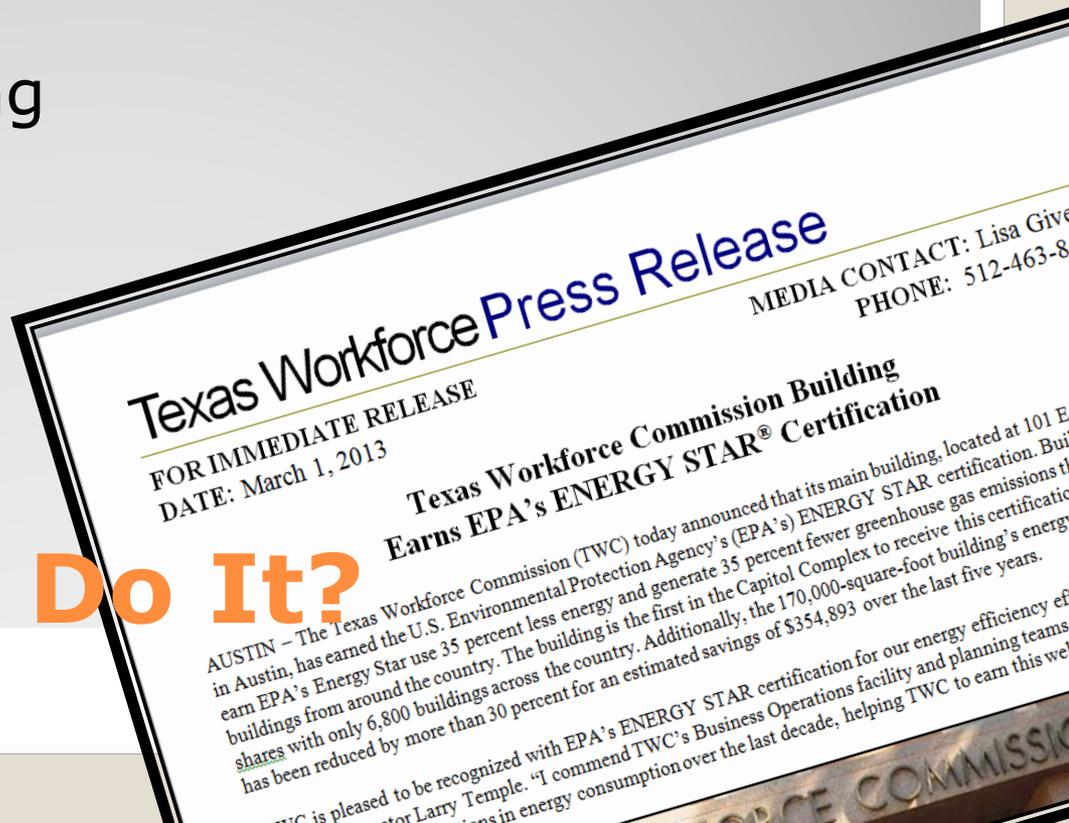
- Independent Verification and Validation
- Comparative Benchmarking
- Visibility and Value
- Recognition of Staff and Best Practices
- Framework for Educating and Communicating Energy's Costs and Potential for Savings

Why Did TWC Apply?



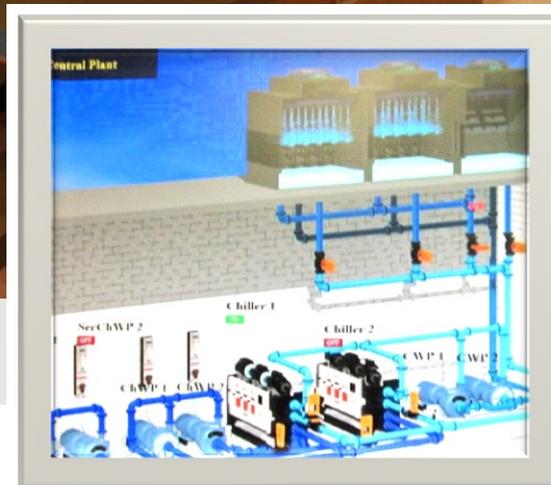
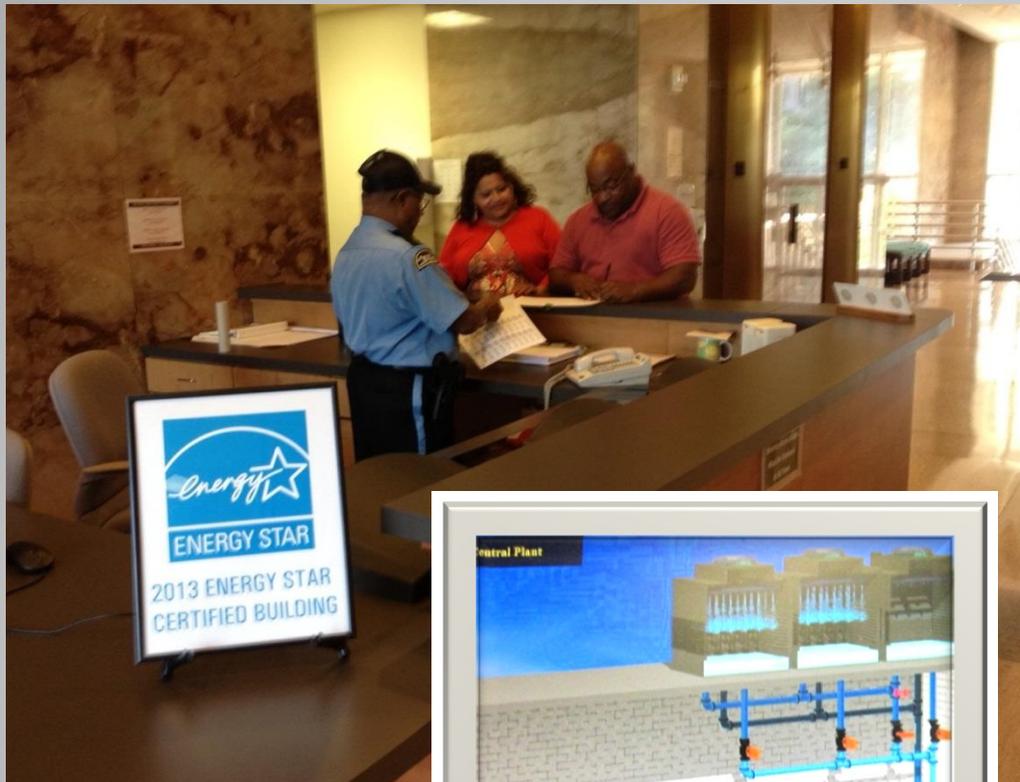
- Strategic Alignment with Service Delivery
- Integrated Planning between Business Operations, Programs, and Finance
- Risk-Rated Project Prioritization
- Metrics and Reporting

How Did TWC Do It?



STRATEGIC ALIGNMENT

- **Reduce** the total ownership cost of facilities
- **Improve** energy efficiency and water conservation
- **Provide** safe, healthy, productive, and sustainable environment
- **Promote** fiscal stewardship with enhanced service delivery



PRIORITIZED PROJECTS

- “White” Roofs
- High Efficiency Cooling Towers
- “Frictionless” Chillers
- Water Treatment Systems
- Energy Efficient Lighting and Lighting Sensors
- Building Management Systems
- Power Management Policies



METRICS and REPORTING

- Certified Energy Audit
- Statement of Energy Performance (SEP)
- Applying for Energy Star Certification
- Using Energy Star's Portfolio Manager

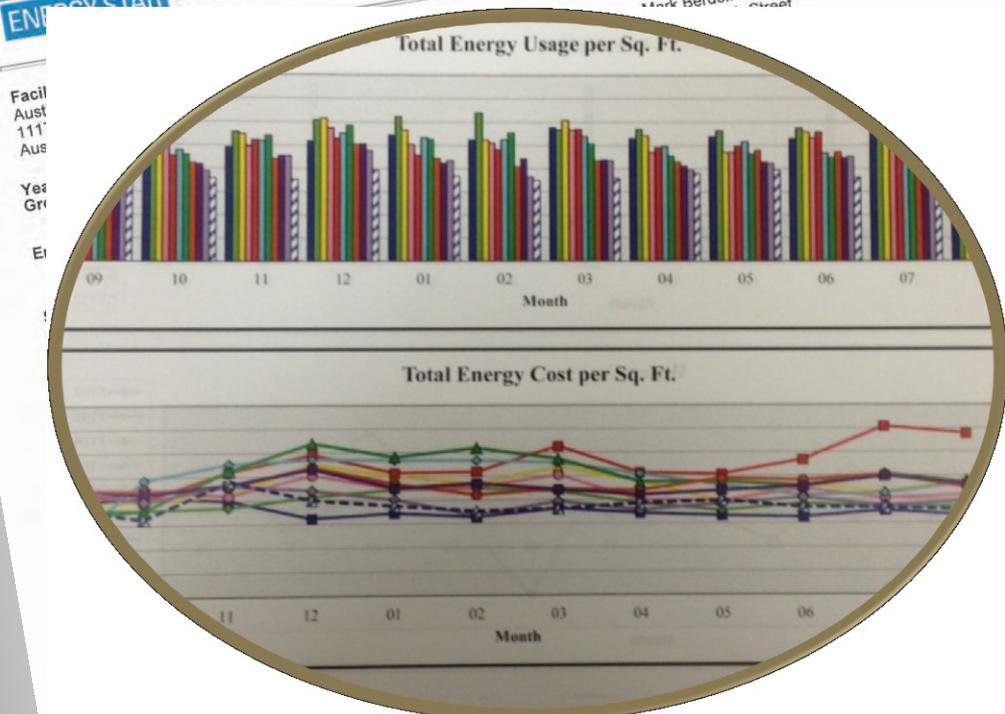
OMB No. 2060-0347

STATEMENT OF ENERGY PERFORMANCE
Austin - Trinity

Building ID: 3515762
For 12-month Period Ending: March 31, 2013¹
Date SEP becomes ineligible: N/A

Date SEP Generated: May 14, 2013

Primary Contact for this Facility
Mark Berdoll



Meeting Conditions:
Ventilation for Acceptable Indoor Air Quality N/A
Acceptable Thermal Environmental Conditions N/A
Adequate Illumination

Notes:
1. Application for the ENERGY STAR must be submitted to EPA within 4 months of the Period Ending date. Award of the ENERGY STAR is not final until approval is received from EPA.
2. The EPA Energy Performance Rating is based on total source energy. A rating of 75 is the minimum to be eligible for the ENERGY STAR.
3. Values represent energy intensity, annualized to a 12-month period.
4. Values represent energy intensity for ventilation for acceptable indoor air quality, ASHRAE Standard 55 for thermal comfort, and IESNA Lighting Handbook for lighting quality.
5. Based on Meeting ASHRAE Standard 62 for ventilation for acceptable indoor air quality.

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Portfolio Averages	
Baseline Rating: 73 Facilities Included: 11	Current Rating: 73 Facilities Included: 11
Change from Baseline: Portfolio Adjusted Percent Energy Use (%): 0% Facilities Included: 11	
Averages are weighted by Total Floor Space. View About Resources View About Change from Baseline, Adjusted Energy Use	

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Search Facility Name:

Results 1 - 11 of 11

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Facility Name	Current Rating (1-100)	Current Site Energy Intensity (kBtu/Sq. Ft.)	Current Source Energy Intensity (kBtu/Sq. Ft.)	Change from Baseline: Energy Use Intensity (kBtu/Sq. Ft.)	Change from Baseline: Adjusted Energy Use Intensity (kBtu/Sq. Ft.)	Energy Use Alerts
Austin - Guadalupe	65	74.2	247.9	-1.8	-6.1	
Austin - Main	80	65.8	206.1	0	0	
Austin - MLK	58	24.0	67.7	N/A	N/A	
Austin - North Mopac	86	53.5	174.5	-1.0	-2.4	
Austin - Timby	77	75.6	236.8	-1.0	-1.5	
El Paso - Santa Fe St	70	106.3	303.4	0.4	-0.5	
Fort Worth - 13th St	80	80.7	221.8	N/A	N/A	
Grand Prairie - Main St	44	85.5	259.1	N/A	N/A	
Houston - Beechnut St	84	64.3	208.6	0	0.4	
McAllen - Hackberry Ave	52	97.2	324.4	-2.9	-8.2	
San Antonio - Deaver Ave	39	99.5	331.9	-0.4	-1.0	

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Using Portfolio Manager



TWC's Energy Star Team!

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Questions