



Martin County

Energy Resiliency Overview

Prepared For: Board of County Commissioners
August 16, 2022



TRANE® Teamwork and Experience.

- **Working with Martin County for 20 years**
 - Strong existing relationship
 - We support Martin County daily
 - Purchasing and contracting terms in place
- **Four major energy projects completed**
- **Generator installations completed**
- **Ongoing service and A/C replacement projects**
- **We live, work, and play in Martin County**



Martin County Results.

- **Trane Energy Project History**

- General Services – Trane \$5.6M, 2009, 29 Facilities
- Parks Sports Lighting – Trane \$8.3M, 2012
- Martin County Jail – Trane \$13.8M, 2018
- Health Department – Trane \$1.4M, 2018

- **Emergency Generator installations – Trane - 2020**

- Courthouse/COB
- Jail/Sheriffs Annex

- **CapEx Projects – Trane 1,134 tons of a/c replaced since 2013**

Martin County Results.

Trane Energy Guarantee Performance

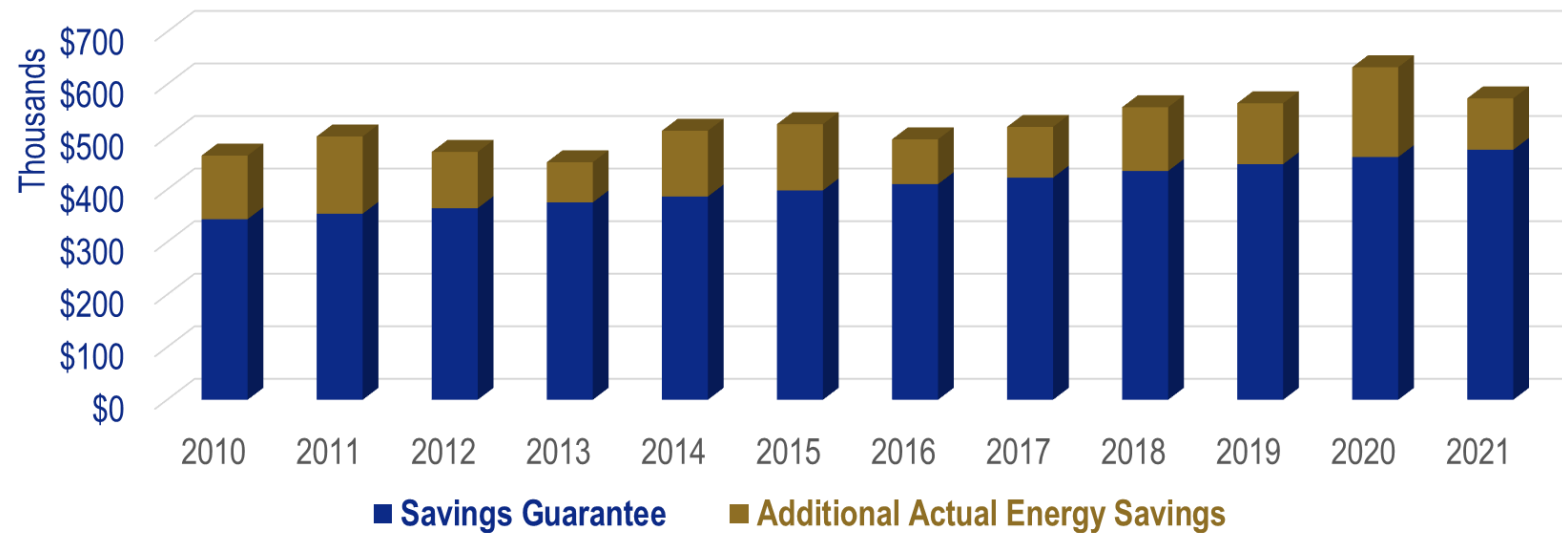


Martin County General Services – Year 12/16

Total Excess Savings to Date: \$1,389,838

Climate Impact: 49,265 Tons of CO₂ Reduced

Actual Energy Savings Performance



Annual Guarantee:

- 3,529,311 kWh
- 4,159 kW
- 54,435 Therms
- (4,207) kGal



Martin County Results.

Trane Energy Savings to Date: \$9,375,061

Climate Impact: 71,164 Tons of CO₂ Avoided



Equivalent to greenhouse gas emissions avoided by:

- 13,847 homes electricity use for a year
- 15,334 gasoline passenger vehicles driven for a year
- 84,218 acres of U.S. forests in one year
- 1,176,704 tree seedlings grown for 10 years

















Trane Resiliency Results - In Depth

Trane Resiliency Projects	Energy Guarantee	Total Electricity Savings (kWh)	Fuel Savings (Therms)	Actual Total Utility \$ Savings	Metric Tons of CO2 Equivalent Avoided *
General Services	Yes	57,284,309	791,471	\$6,265,613	44,784
Parks Sports Lighting	Yes	13,490,401	n/a	\$2,861,378	9,560
Jail	Yes	1,736,056	n/a	\$193,156	1,230
Health Department	No	54,916	n/a	\$54,914	39
A/C Replacements	No	-	n/a	\$0	15,551
Totals		72,565,682	791,471	\$9,375,061	71,164

* Climate metrics per EPA Greenhouse Gas Equivalencies Calculator

Power of Teamwork and Experience.

Accelerating Martin County's Resiliency Plan

	Completed Projects	Equipment and Service	Future Opportunities	5 Year CapEx Budget & Potential Solutions
Courthouse/Admin			✓	LED Lighting, Solar PV Canopy, Electric Vehicle Charging
Utilities			✓	LED Lighting
Jail				Completed \$14MM Energy Performance Contract in 2019.
EOC/Public Safety			✓	Chiller Plant Tie-in, LED Lighting
Libraries			✓	LED Lighting, Electric Vehicle Charging
Fire Stations			✓	LED Lighting
Parks			✓	LED Lighting
Health Department				Completed Comprehensive Energy Project in 2020

Recommended Resiliency Project Budget: \$10MM



Resiliency Project Recommendations.

- Water Conservation – All Facilities
- LED Lighting – All Facilities and Parks
 - Improve aesthetics
 - Reduce energy and operating cost
- PSC addition to New Jail Chiller Plant
 - Currently budgeted in CIP
 - Trane under contract for design
 - Avoids PSC air-cooled chiller replacement cost
 - Right-size standby emergency generator
 - \$4.5 million in energy and operational savings



Resiliency Project Recommendations.

- Innovative Biosolids Technology
 - Eliminates nitrogen and phosphorous
 - Commercialize process for pilot at Tropical Farms
- Decarbonization / Renewables
 - Provide electric vehicle charging stations
 - Evaluate solar PV parking canopy locations



Resiliency Project Motivation and Timing.

Why Change?

- ✓ To continue leadership on environmental conservation
- ✓ To improve quality of life in Martin County
- ✓ To support and accelerate your existing Resilience Plan

Why Now?

- ✓ Project reinforces Martin County's environmental leadership
- ✓ Recent FPL and fuel increases are up over \$1 million/year
- ✓ FPL rates are going up further over the next three years
- ✓ Project is self-funding from energy and operational savings

Why Trane?

- ✓ Trane has deep existing relationship with Martin County
- ✓ Accelerate projects that are already under contract to Trane
- ✓ Local team with proven track record
- ✓ Existing contract and terms in place



Process/Timeline – Trane Guaranteed Energy Savings Project



- **Trane Mission: Reducing the Energy Intensity of the Planet**
- **Net Zero verified by Science Based Targets Initiative (SBTi)**



2030 Commitments

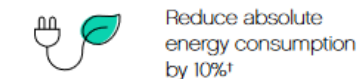
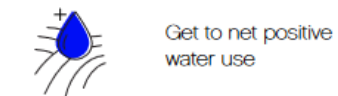
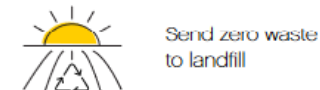
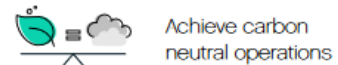
Building a sustainable future will unquestionably have many challenges, but it needs to start now. Our 2030 commitments are the bedrock of our sustainability strategy. Today, with bold goals that we know are achievable, we're accelerating toward a brighter future.



Leading by Example

Reimagining our supply chain and operations.

How we'll do it:

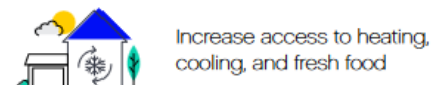
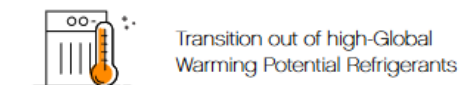
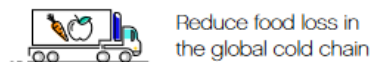
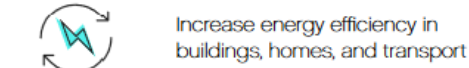
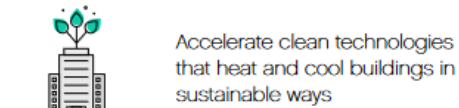


¹Compared to 2019 baseline.

The Gigaton Challenge

Reduce customer carbon footprint by **1 gigaton**^{*}.

How we'll do it:

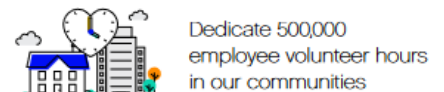
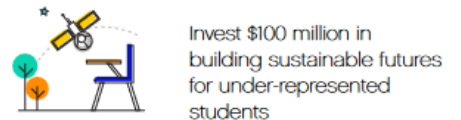
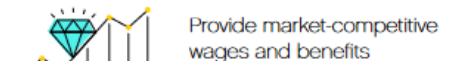
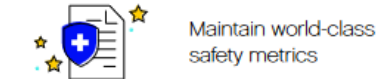
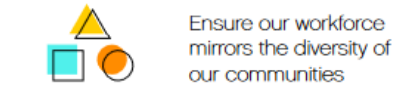
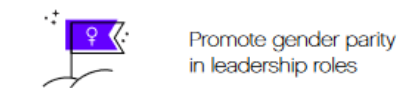


^{*}1B metric tons of CO₂e

Opportunity for All

Uplifting our culture and communities.

How we'll do it:



We believe in setting ambitious goals founded in science. That's why we've had our climate-related targets validated by the Science Based Targets Initiative (SBTi) not just once, but twice.

Trane ESG Leadership.



~\$500M In purchased goods and services from diverse-owned businesses annually



\$8.4 Million Annual Philanthropic Giving



CEO **ACTION** FOR DIVERSITY & INCLUSION



MEMBER OF
Dow Jones Sustainability Indices



FTSE4Good