

# Martin County Energy Resiliency Overview

Prepared For: Board of County Commissioners August 16, 2022







- 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



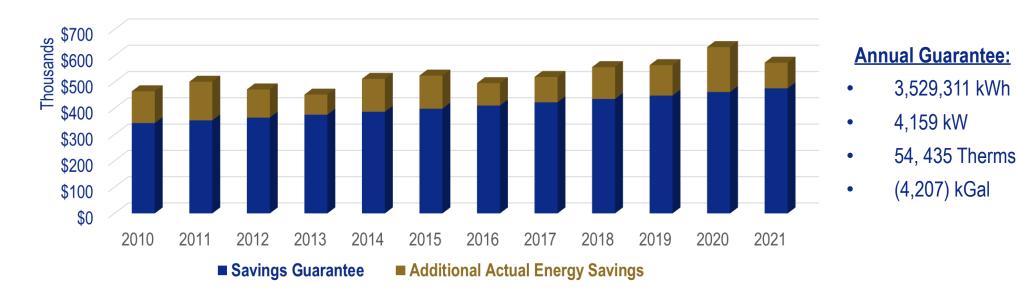
# Martin County Results. Trane Energy Guarantee Performance



Martin County General Services – Year 12/16
Total Excess Savings to Date: \$1,389,838

Climate Impact: 49,265 Tons of CO<sub>2</sub> Reduced

### **Actual Energy Savings Performance**





### Martin County Results.

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

Climate Impact: 71,164 Tons of CO<sub>2</sub> 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 |           |                          |                     |                             |                      |  |
|-------------------------------------|-----------|--------------------------|---------------------|-----------------------------|----------------------|--|
|                                     | Energy    | <b>Total Electricity</b> | <b>Fuel Savings</b> | <b>Actual Total Utility</b> | Metric Tons of CO2   |  |
| <b>Trane Resiliency Projects</b>    | Guarantee | Savings (kWh)            | (Therms)            | \$ Savings                  | 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             | <i>\$9,375,061</i>          | 71,164               |  |



### Power of Teamwork and Experience.

### Accelerating Martin County's Resiliency Plan

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



### 1 Project Introduction

- Project Concept
- · Procurement discussion
- · Legal discussion
- · Optional workshop to review
- Target Date: 8/16/22
- Approve Letter To Proceed

### 2 Project Development

- Letter of Commitment for development costs
- Fixed price construction proposal
- · Finalize project pro-forma
- Secure financing and finalize energy savings guarantee
- Two months to complete project development
- Target Date: 10/18/2022

### 3 Project Approval

- · Contract documents for approval
- Letter of Commitment costs are rolled into project
- Letter of Commitment fee is billed if project does not get approved
- Utilize amendment to existing Trane contract
- Target Date: 11/15/23

### 4 Project Closeout

- Design and construction by Trane
- Project installation and closeout
- Meet or exceed performance period for term of the contract
- Data driven measurement and verification
- Target Date: 11/15/2023



# TECHNOLOGIES

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

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### 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:



Achieve carbon neutral operations



Send zero waste to landfill



Get to net positive water use



Reduce absolute energy consumption by 10%<sup>†</sup>

\*Compared to 2019 baseline.

### The Gigaton Challenge

Reduce customer carbon footprint by 1 gigaton\*.

### How we'll do it:



Accelerate clean technologies that heat and cool buildings in sustainable ways



Increase energy efficiency in buildings, homes, and transport



Reduce food loss in the global cold chain



Transition out of high-Global Warming Potential Refrigerants



Design systems for circularity



Increase access to heating, cooling, and fresh food

\*1B metric tons of CO2e

### **Opportunity for All**

Uplifting our culture and communities.

### How we'll do it:



Promote gender parity in leadership roles



Ensure our workforce mirrors the diversity of our communities



Maintain world-class safety metrics



Provide market-competitive wages and benefits



Invest \$100 million in building sustainable futures for under-represented students



Dedicate 500,000 employee volunteer hours in our communities



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.















MEMBER OF

Dow Jones Sustainability Indices







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



\$8.4 Million Annual Philanthropic Giving