

Our Emerson Sustainability Journey



Adam Glassl
Sustainable Energy Manager




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Global EHS Manager

Who is Emerson?

Company Overview

Software and Control




aspentech

DELTA[®]V

Ovation[™]

Intelligent Devices



ROSEMOUNT[™]

FISHER[™]

MICRO MOTION


ASCO[™]


RIDGID

\$13.8 BILLION
GLOBAL NET SALES FY 2022

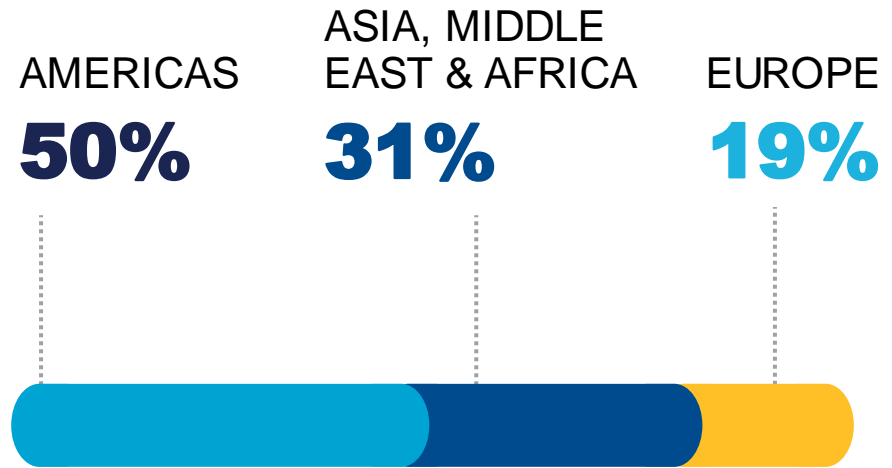
FOUNDED **1890** NYSE: **EMR**

HEADQUARTERS
ST. LOUIS, MO USA

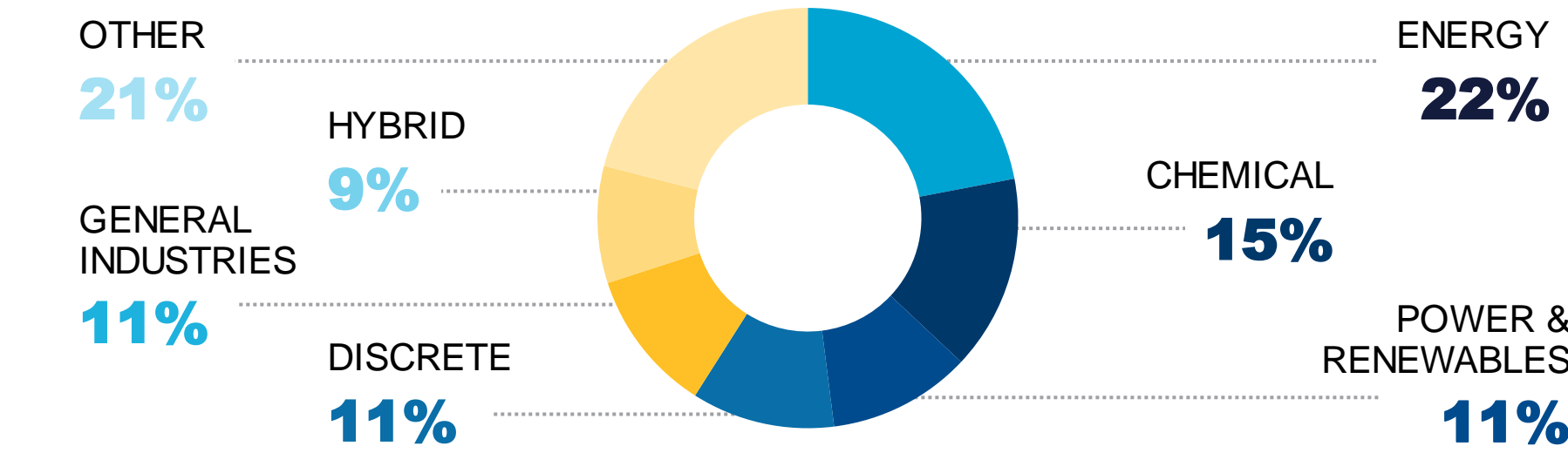
WORLDWIDE
 **66,300** EMPLOYEES

 **130** MANUFACTURING LOCATIONS

SALES BY GEOGRAPHY



SALES BY END MARKET



We commit to reaching
Science-Based Aligned
Net Zero
GHG Emissions
across all Scopes (1, 2 & 3)
by **2045**
from 2021

To get us on the
right pathway by **2030**

we commit to achieving...



1.5°C Aligned

Net Zero
Operations

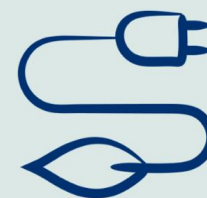
Scopes 1 & 2 GHG Emissions

25% **Absolute**
Reduction

Scope 3 GHG Emissions

Source
100%

Renewable Electricity
in our offices and facilities



Reduce
25%
our **Energy**
Intensity



Our Journey to Zero Waste to Landfill

By **2032**
from 2022

**Zero Waste
To Landfill**

90% diversion rate
manufacturing sites worldwide

Diversion Rate **77%**

Total Waste ~ 156 kilotons

75%
Waste is
Recycled

Material types

59% **21%**
Metals Industrials

- 1 Improve data collection and recordkeeping systems
- 2 Explore certification program options that can guide our global manufacturing sites
- 3 Divert and eliminate incoming packaging waste from suppliers
- 4 Divert and eliminate mixed non-hazardous waste

Emerson's Environmental Sustainability Framework



GREENING OF

How we improve
our own internal
environmental
sustainability
performance



GREENING BY




































How Emerson
technologies, solutions
and expertise enable
customers' sustainability
journeys



GREENING WITH

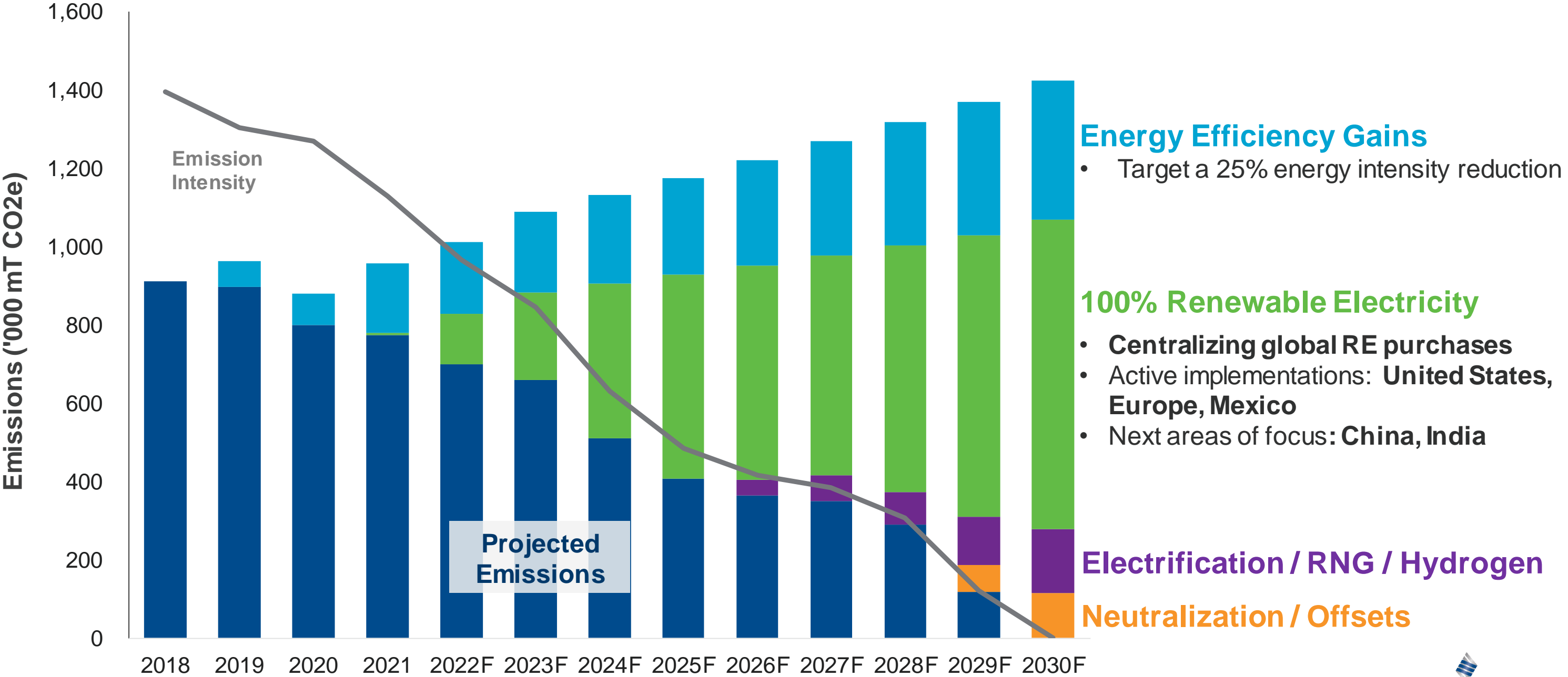
How we foster
collaboration and
innovation among our
global value chain
partners

Emerson's Environmental Sustainability Journey

	2021	2022	2023
EXTERNAL REPORTING	<div></div>	<div></div>	<div></div>
OPERATIONS	<div><div>1ST TARGET Reduce Scope 1 & 2 Emissions Intensity by 20% by 2028</div><div>Set up Energy Sourcing Committee</div></div>	<div><div>NET ZERO TARGETS NET ZERO OPERATIONS BY 2030 FROM 2021 NET ZERO VAUE CHAIN BY 2045 FROM 2021 ACHIEVED ORIGINAL TARGET</div></div>	<div><div>ZERO WASTE ZERO WASTE TO LANDFILL BY 2032 FROM 2022</div><div>Sustainable Building Standards & Carbon Price Launched</div></div>
SUPPLY CHAIN	<div><div>Published first Scope 3 Upstream footprint</div></div>	<div><div>1st NA Greening Together Summit</div><div>1st Europe Greening Together Summit</div><div>1st AP Greening Together Summit</div></div>	<div><div>Set up Responsible Sourcing Committee</div><div>5 Summits Developed Responsible Sourcing Program</div></div>
PRODUCTS & PACKAGING	<div><div>Initiated Life Cycle Assessment program</div></div>	<div><div>Pune Center of Excellence for LCA & Packaging</div><div>Delivered Sustainable Design training</div></div>	<div><div>Sustainable Packaging Playbook</div></div>
EMPLOYEE ENGAGEMENT	<div><div>Launched Sustainability Intranet Site</div><div>1st Environmental Sustainability Awards Edition</div></div>	<div><div>Launched Global Training</div><div>2nd Environmental Sustainability Awards Edition</div></div>	<div><div>Greening As One Campaign Launched</div><div>4,200+ participants ecochallenge dot org</div></div>

Differentiate by Delivering Results

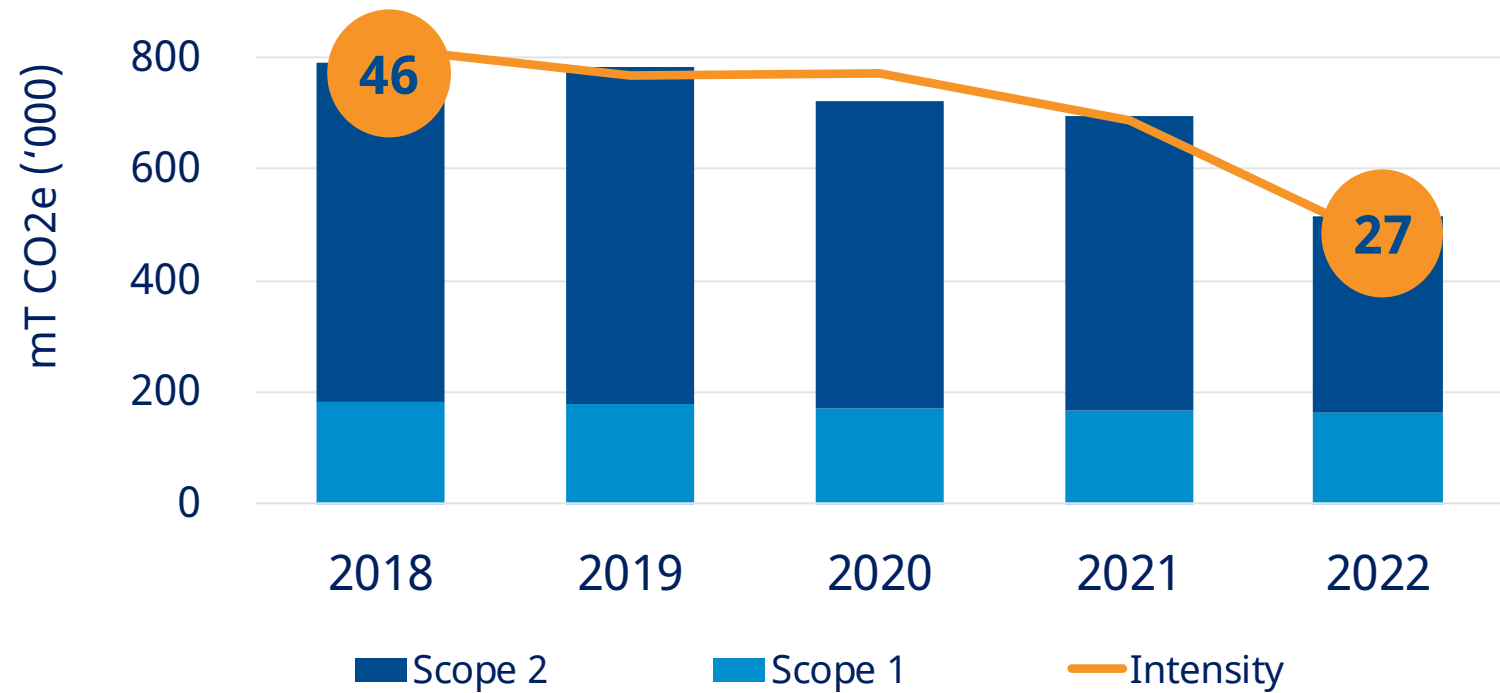
Net Zero Operations – 2030 Roadmap



Emerson Emission Reduction Progress To-Date

Emerson's Scope 1 & 2 Emissions Progress

FY22 | Scope 1 & 2 Emissions
515,000 mTCO₂e



Emissions Intensity (measured in mTCO₂e / \$M) ↓ **42%** from 2018

How?

Energy Efficiency Gains Through Energy Treasure Hunts



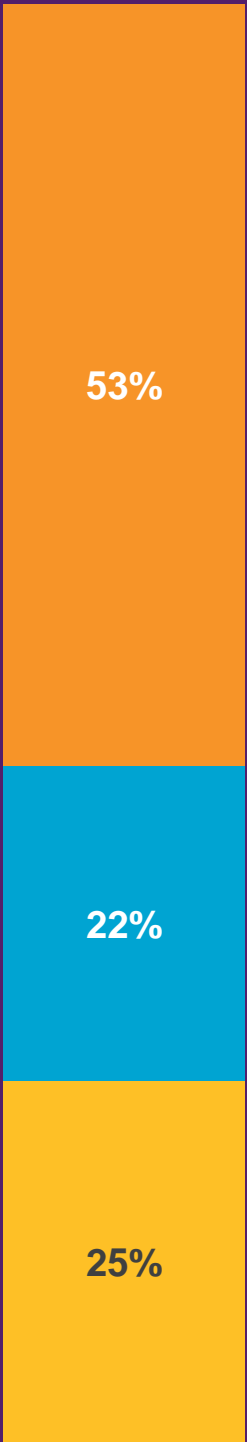
Compressed Air Optimization

HVAC Setback

LED Lighting

Equipment Shutdown

Facility Consolidation



Renewable Electricity Emerson



Grid Decarbonization



Energy Treasure Hunts Have Been Completed Across All World Areas w/ Enterprise-Wide Engagement



Adam Glassl – CORP Sustainability
Mike Barkan – CORP Sustainability



Lebanon, Missouri
September 2021



Remscheid, Germany
November 2022



Singapore
August 2022



Guadalajara, Mexico
June 2021

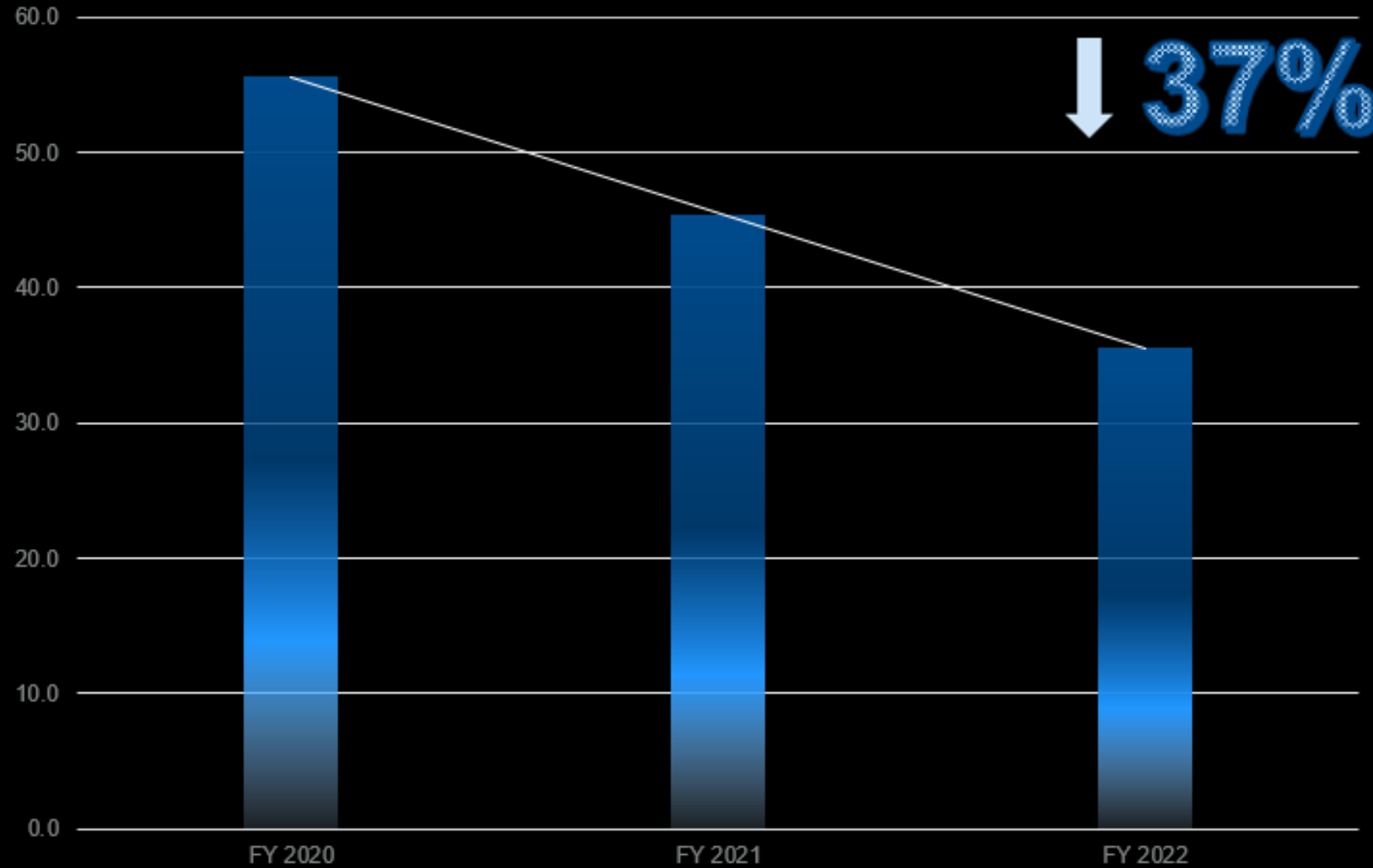


Dubai, UAE
March 2022

Emerson Teams Have Facilitated **50+ Energy Treasure Hunts** To-Date w/ Over **\$5 Million** in Annual Savings Identified

Business Example

BU GREENHOUSE GAS (GHG) INTENSITY FY 2020 - FY 2022



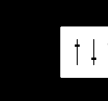
 Compressed Air Optimization

 HVAC Upgrades

 HVAC Management

 Equipment Shutdown

 LED Lighting

 Vacuum pump management

What Moved the Needle?

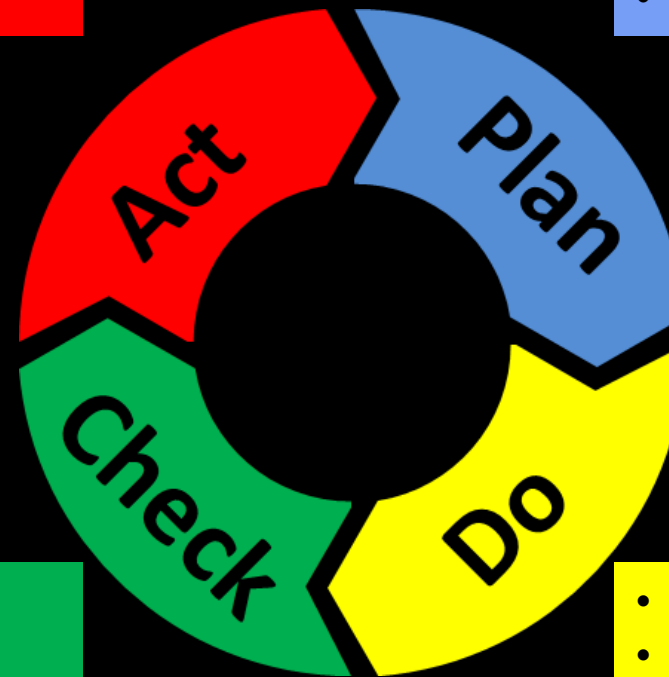


- ↻ Corporate Core Value
- ↻ Systematic Plan-Do-Check-Act approach
- ↻ Greening As One educational campaign
- ↻ Employee Led Teams
- ↻ Earth Day Events
- ↻ Green Team
- ↻ Recycling Partners
- ↻ Formal Treasure Hunts
- ↻ Localized Training
- ↻ Sustainability Moments
- ↻ Podcasts and Blogs

Systems Approach Strategy for Sustainability

- **Adjust according to tracking & metrics**
- **Act quickly using survey data**
- **Celebrate successes**

- **Establish baseline GHG intensity**
- **Train and lead our people**
- **Prioritize sustainability actions**



- **GHG intensity tracking vs. baseline**
- **Business scorecard metric**
- **Survey our teams**

- **Complete treasure hunts**
- **Shift the culture**
- **Execute prioritized sustainability actions**

Recycled Materials Transformed into Common Products

Partner: TerraCycle



How TerraCycle recycles waste



- 1 Receive**
TerraCycle receives waste in our Materials Recovery Facilities (MRFs). TerraCycle operates dozens of MRFs in 21 countries and handles thousands of different waste streams.



- 2 Check in**
TerraCycle checks in, weighs, inspects materials for compliance, and records all shipments. Key shipment data is shared with brand partners via TerraCycle reports.



- 3 Aggregate**
Shipment contents are aggregated and stored with similar materials until minimum processing quantities are met.



- 4 Recycle**
TerraCycle works with strategic partners to process individual waste streams into a secondary raw material. Secondary raw materials can be used to make new products or can be used in your own supply chain.

Virginia Environmental Excellence Program

Charlottesville, VA



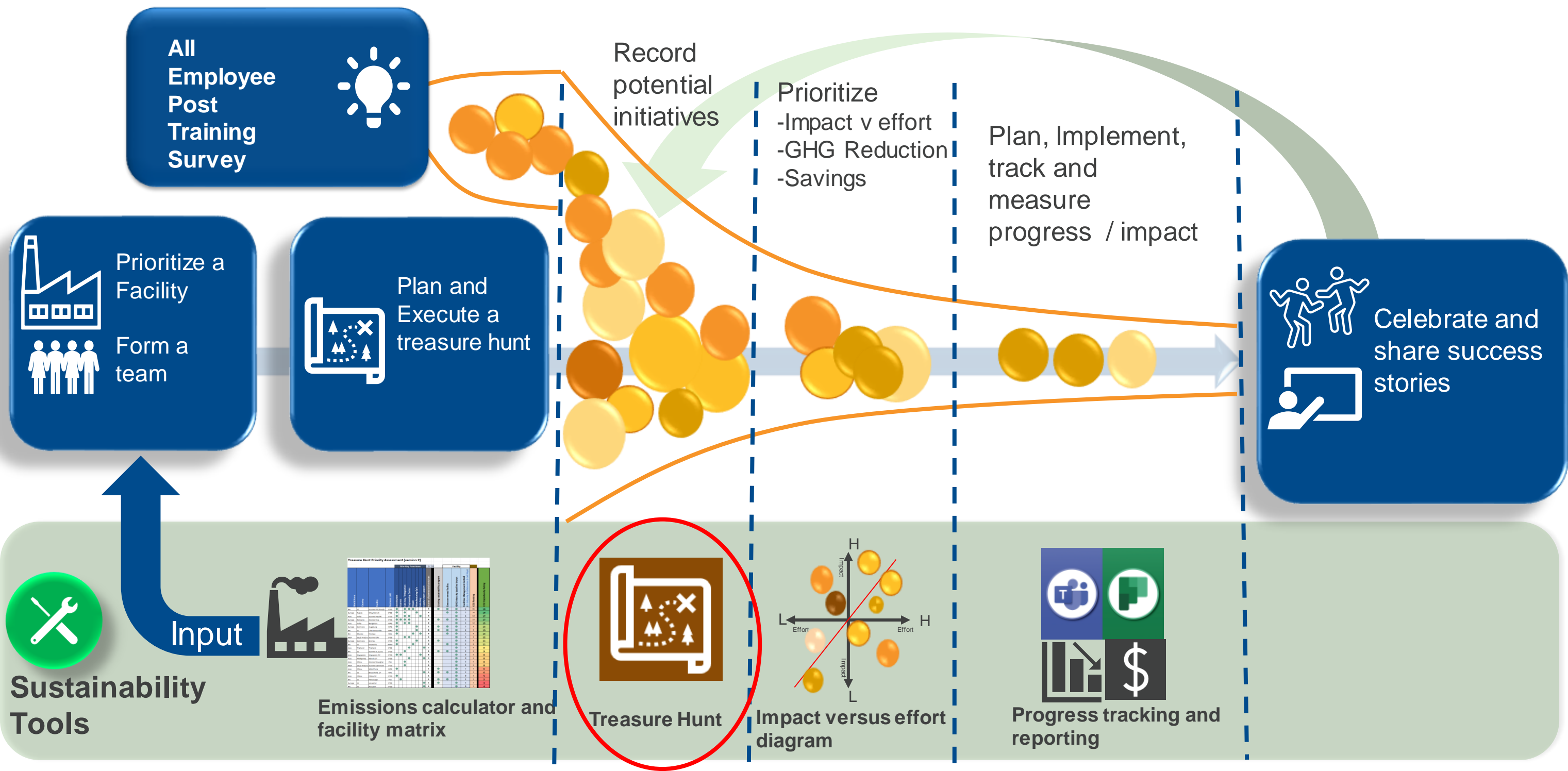
Impacts to Our Business

- Indexed* energy cost improvement of **40%** in 2022 vs. 2019
- Indexed* energy use improvement of **41%** in 2022 vs. 2019
- Lead waste generation reduced by **100%** in 2022 vs. 2019
- Air Emissions decrease of **65%** in 2022 vs. 2019
- Carbon monoxide emissions decrease of **76%** in 2022 vs. 2019
- **100+** organizations available in Virginia for benchmarking
- Full VDEQ **compliance check** completed and passed

Think Globally. Act Locally

*Indexing uses metric tons CO2e / million \$ sales

Sustainability Pipeline



2023

PARTNER OF THE YEAR

