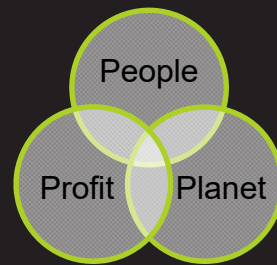
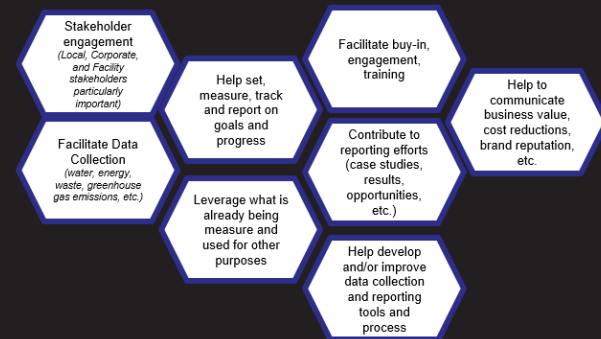


What Every Facility Should Know About Sustainability Planning and Reporting

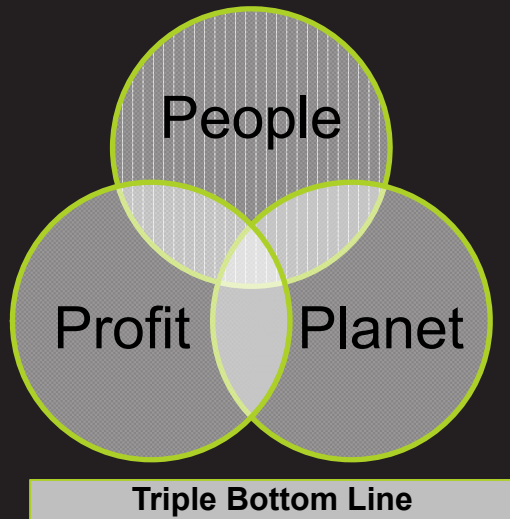


Triple Bottom Line



Kristen Rowe, MEM, Senior Sustainability Consultant, John Beath Environmental, LLC

Business Value of Sustainability



Value Creation

- Sustainable innovation in products
- New potential market entry, customers, and market share
- Pricing power
- Employee recruitment and engagement

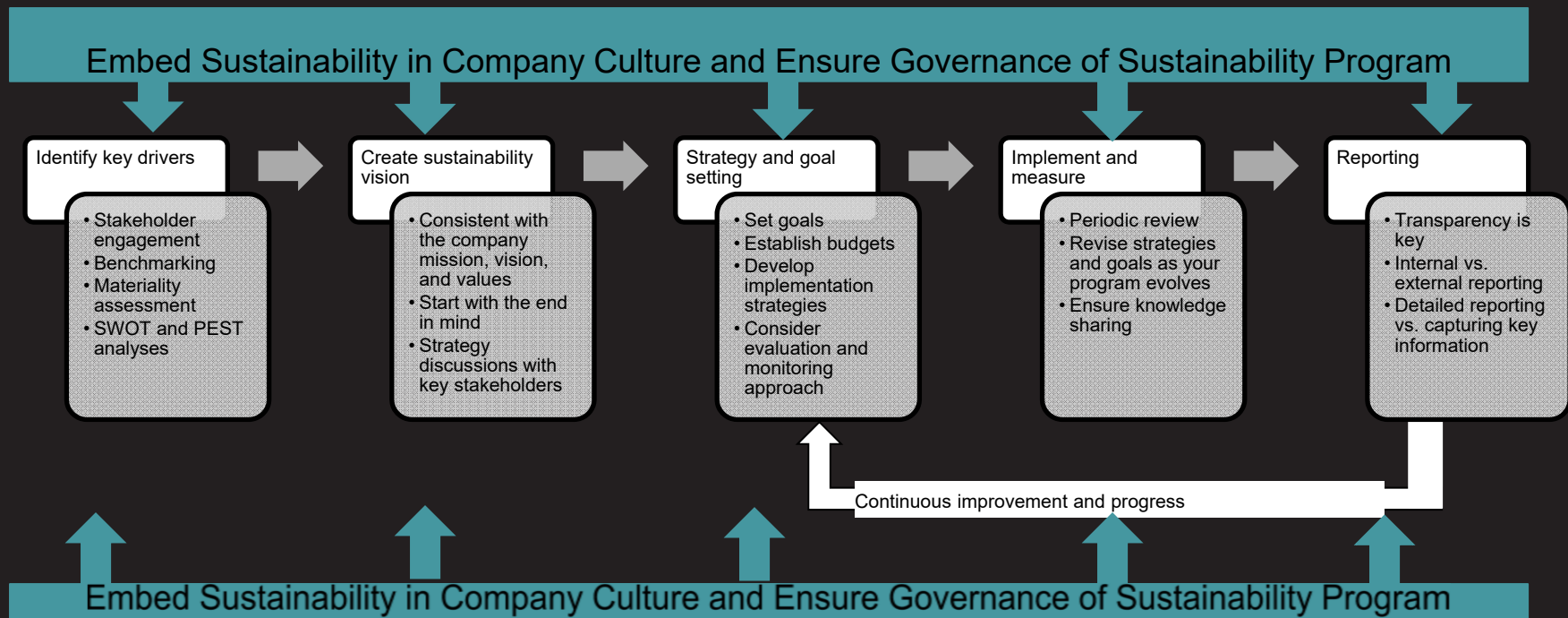
Cost Reduction

- Operational and resource efficiency (reduce water, waste, emissions)
- Value chain optimization

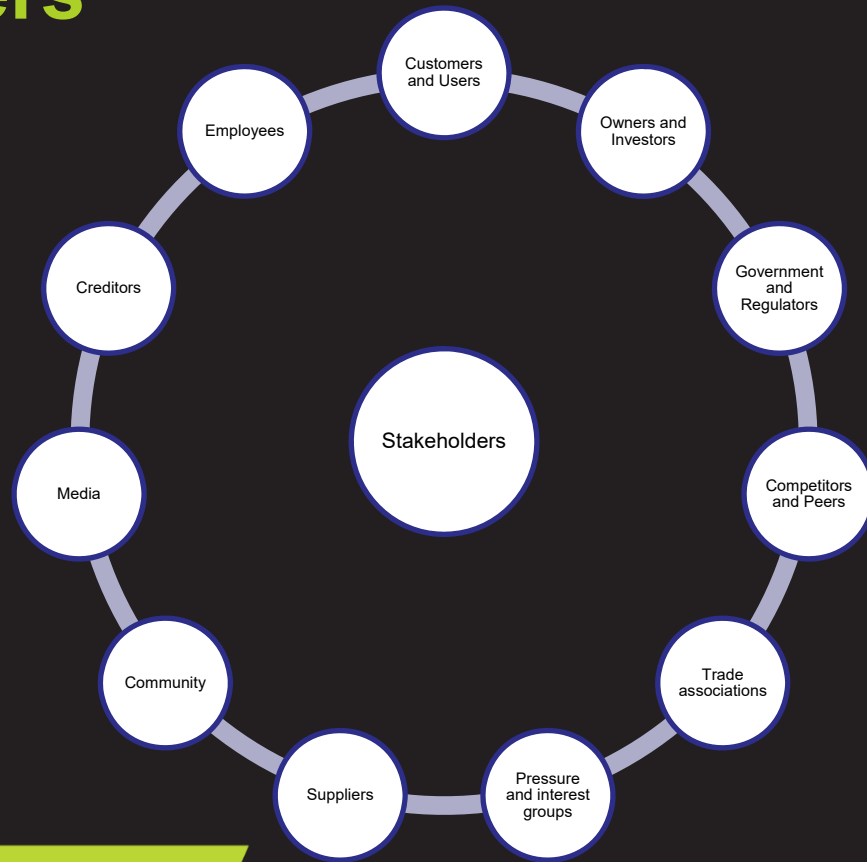
Brand and Risk Management

- Enhanced brand and reputation
- Operational risk management
- Regulatory Management
- Value chain risk management

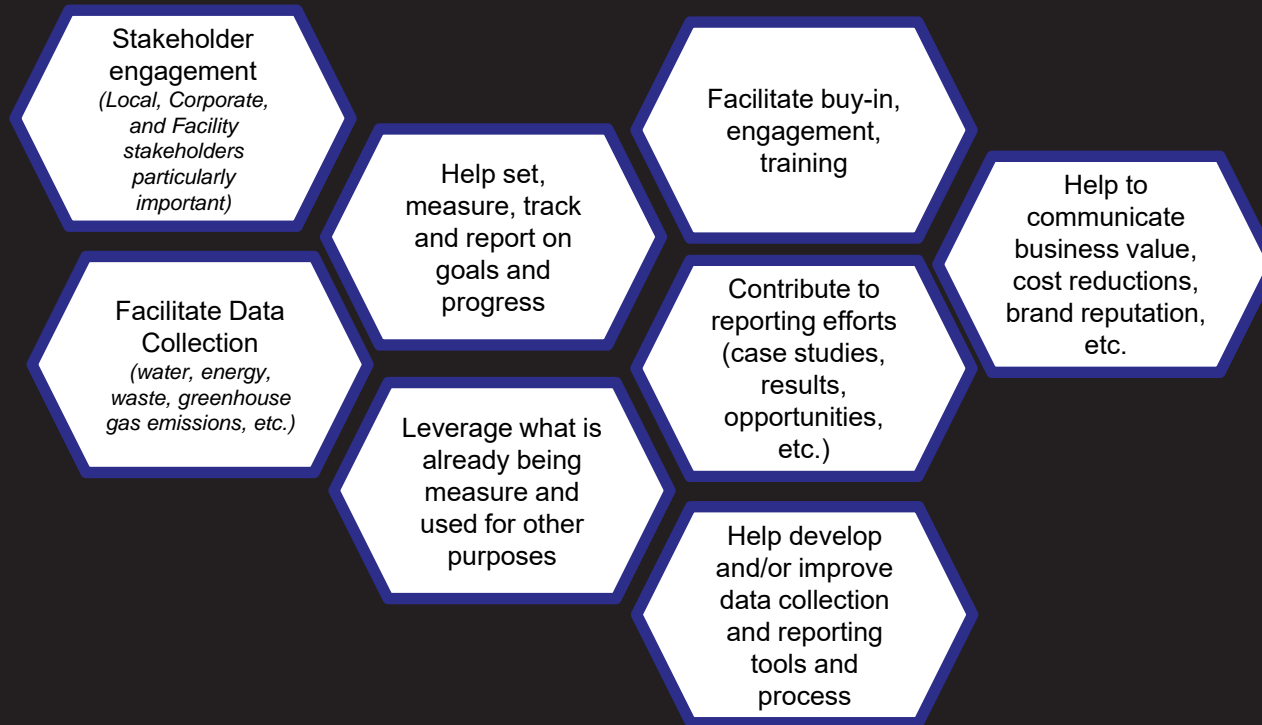
Key Elements to Developing a Sustainability Strategy



Stakeholders



What Sustainability Means at the Facility Level



Sustainability Reporting



Important component of corporate strategy

- Can drive performance through reporting

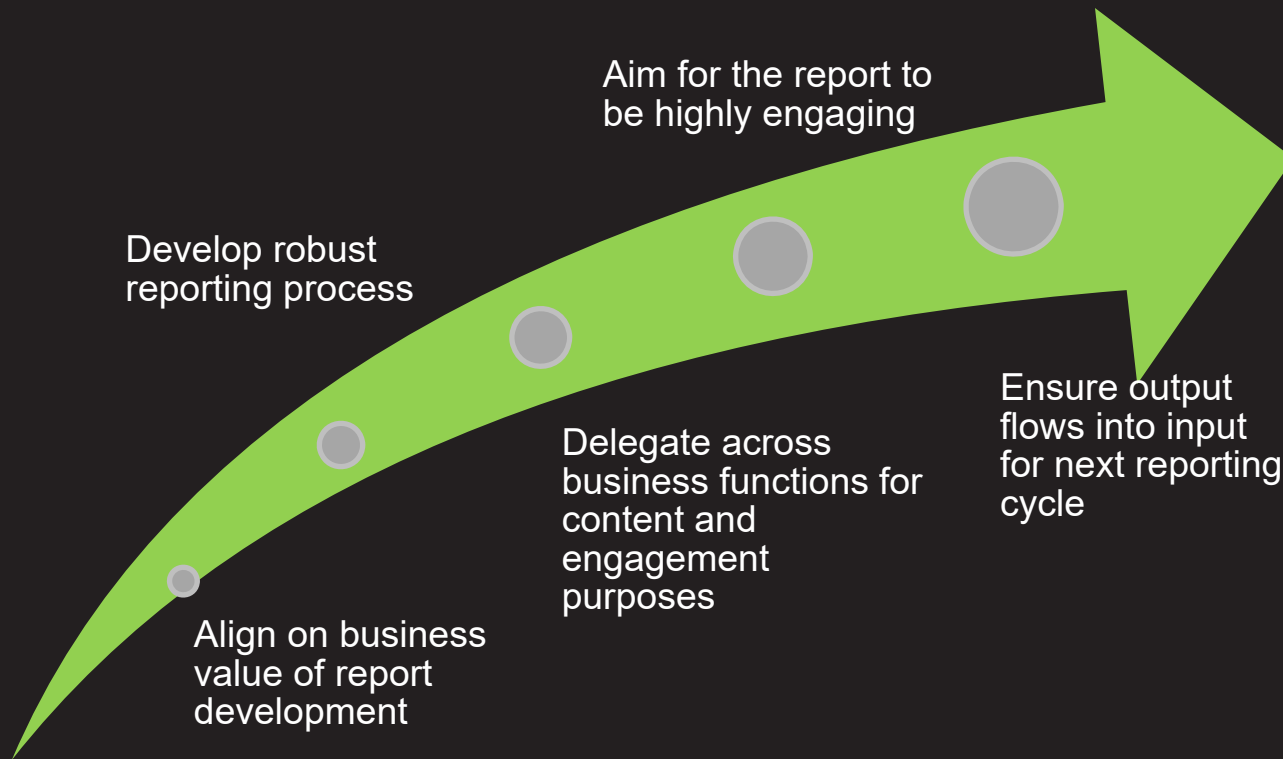
Important component of stakeholder relationship building

- Effectively and efficiently control the flow of information
- Allows for a shift in conversation before and after reporting efforts

Opportunity for business to tell their story

- Transparency is key

Sustainability Reporting

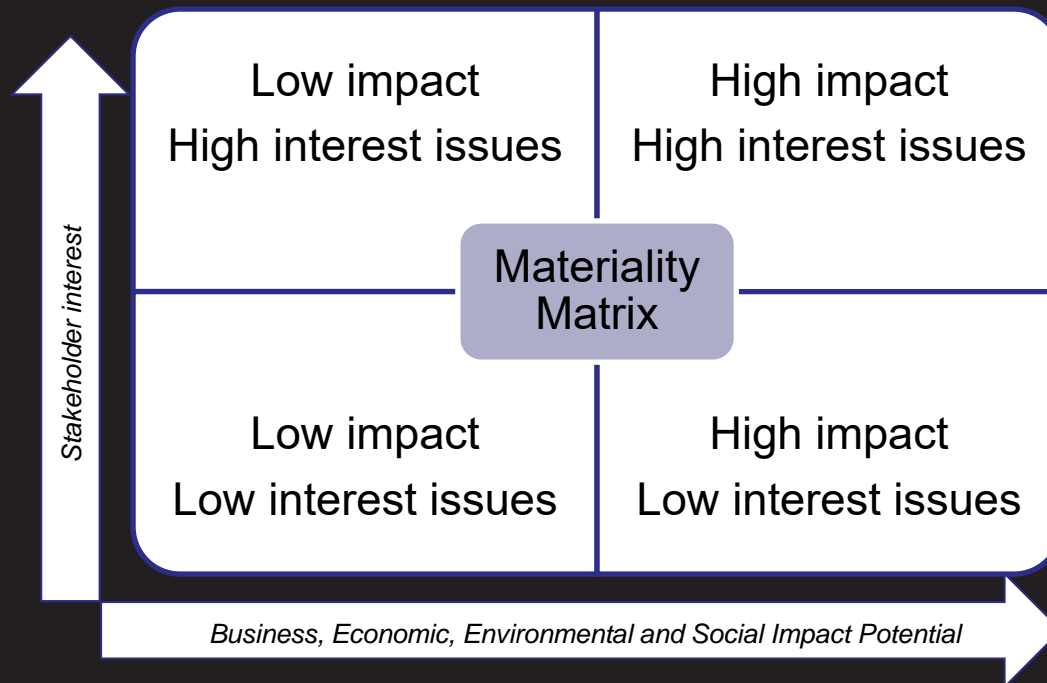


Stakeholder Engagement: Example



Figure from Hunter Industries Website, <http://corporate.hunterindustries.com/sustainability-report/priorities/stakeholder-engagement>

Materiality Assessment: Example



Materiality Assessment: Example



Figure from International Flavors and Fragrances, 2010 Sustainability Report, p. 6

Set Goals, Implement, Measure, & Report: Example

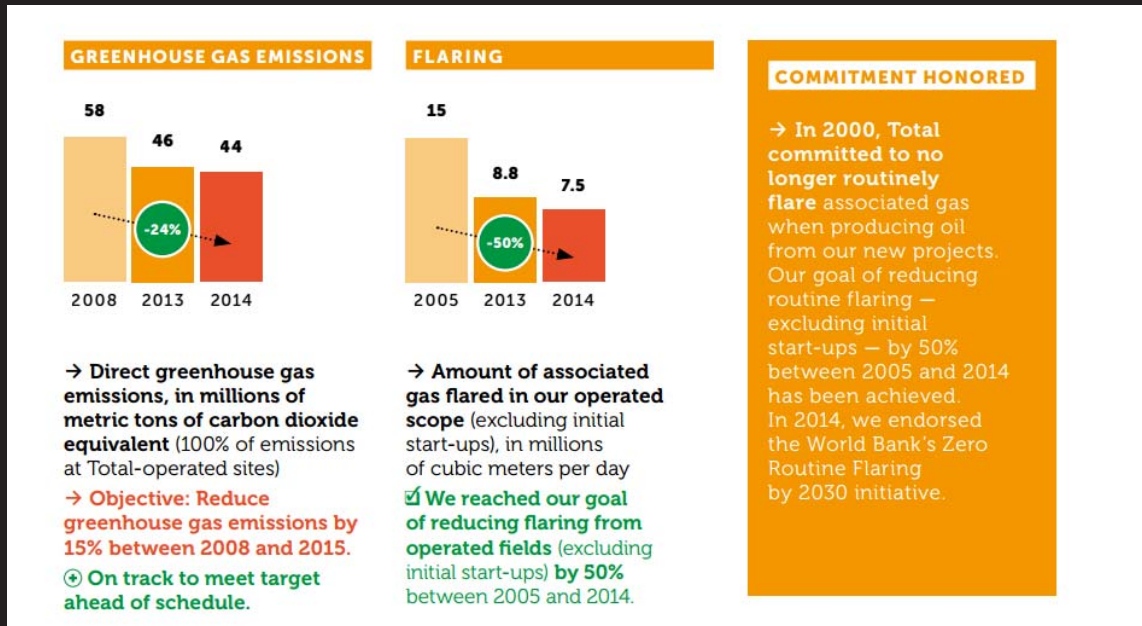


Figure from Total 2014 Sustainable Growth Report, p52

Facility Sustainable Engineering: Example

Goal: Zero Liquid Discharge = No process water leaves the site

Problem at the Facility: Decreased capacity to cost effectively maintain a zero liquid discharge system when operating cycling coal-fired units

Solution: Facility led through a series of engineering, operational, and process changes to improve the water use and re-use.

Results: The program is being implemented with expected savings of 450,000 gallons of water per day, 1MW of energy per day, and \$5M in annual costs.

Zero Liquid Discharge System at Stanton Energy Center

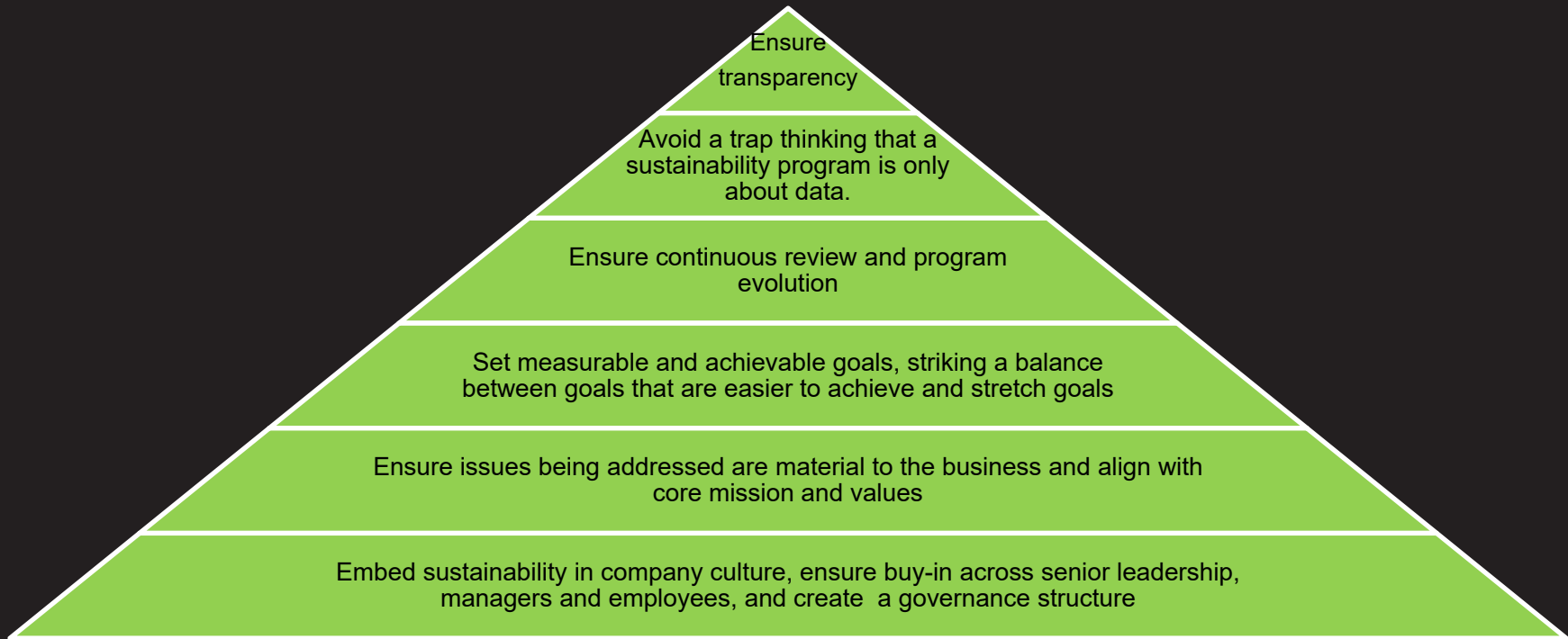
Challenges and Solutions

Presented By

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Take-Away Messages



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