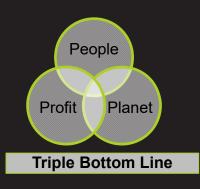
What Every Facility Should Know About Sustainability Planning and Reporting

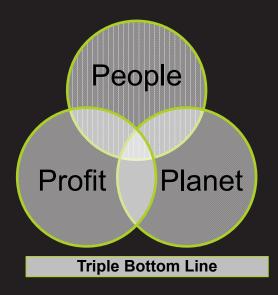






Kristen Rowe, MEM, Senior Sustainability Consultant, John Beath Environmental, LLC

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

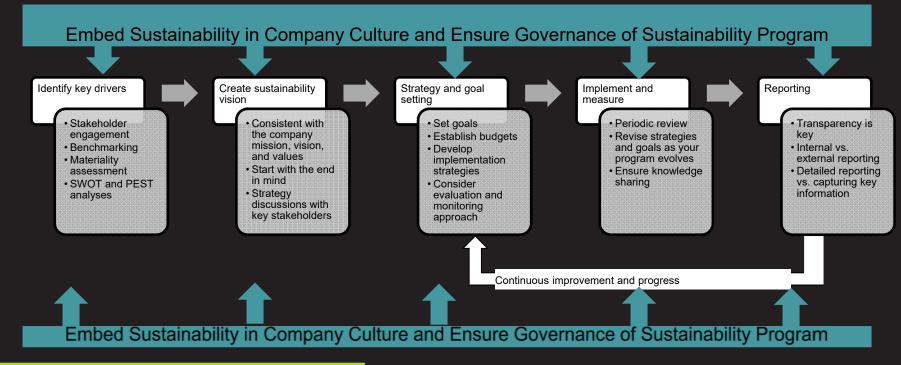
- Operational and resource efficiency (reduce water, waste, emissions)
- Value chain optimization

Brand and Risk Management

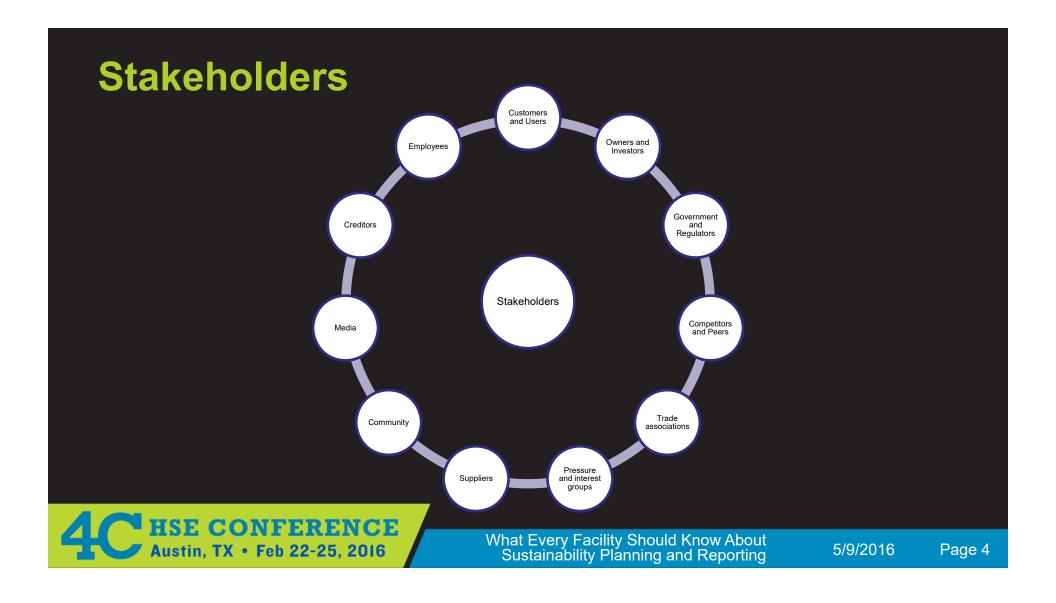
- Enhanced brand and reputation
- Operational risk management
- Regulatory Management
- •Value chain risk management



Key Elements to Developing a Sustainability Strategy







What Sustainability Means at the Facility Level

Stakeholder engagement (Local, Corporate, and Facility stakeholders particularly important)

Facilitate Data Collection (water, energy, waste, greenhouse gas emissions, etc.) Help set, measure, track and report on goals and progress

Leverage what is already being measure and used for other purposes Facilitate buy-in, engagement, training

Contribute to reporting efforts (case studies, results, opportunities, etc.)

Help develop and/or improve data collection and reporting tools and process Help to communicate business value, cost reductions, brand reputation, etc.



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

Aim for the report to be highly engaging

Develop robust reporting process

Align on business

Delegate across business functions for content and engagement purposes Ensure output flows into input for next reporting cycle



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Stakeholder Engagement: Example

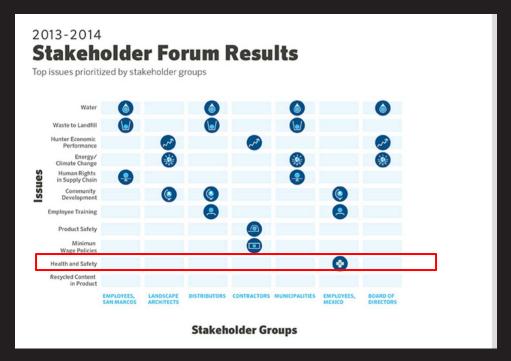


Figure from Hunter Industries Website, http://corporate.hunterindustries.com/sustainability-report/priorities/stakeholder-engagement



Materiality Assessment: Example

Low impact
High interest issues

Materiality
Matrix

Low impact
Low impact
Low impact
Low interest issues

Business, Economic, Environmental and Social Impact Potential



Materiality Assessment: Example



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



Set Goals, Implement, Measure, & Report: Example

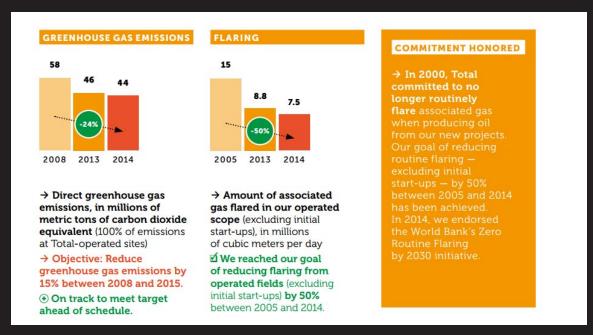


Figure from Total 2014 Sustainable Growth Report, p52



Facility Sustainable Engineering: Example

<u>Goal</u>: Zero Liquid Discharge = No process water leaves the site

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

<u>Solution</u>: 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

Eric Costello, PE, LEED Green Associate – Orlando Utilities Commission Dean Ritts, PE, CEM, LEED AP O+M – Ritts Sustainable Engineering, LLC





Take-Away Messages

transparency

Avoid a trap thinking that a sustainability program is only about data.

Ensure continuous review and program evolution

Set measurable and achievable goals, striking a balance between goals that are easier to achieve and stretch goals

Ensure issues being addressed are material to the business and align with core mission and values

Embed sustainability in company culture, ensure buy-in across senior leadership, managers and employees, and create a governance structure



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