Evaluating Supply Chain EHS Compliance And Risk Management

October 24, 2012
Introductions

Kami Blake – Speaker

• Assess regulatory requirements, information management technology and effectiveness of existing HazMat programs to develop and re-engineer compliance solutions
• Prior to joining 3E in 2002, served in Quality Assurance, Supply Chain Management and Process Engineering roles in the biotech and medical device manufacturing industries
• U.S. Marine
  – Computer Programmer / Systems Analyst
  – Two time Navy Achievement Medal recipient for small systems implementation and training
Agenda

- Background, History, and Landscape
- Trends, Incidents, and Drivers
- Compliance to CSR to Sustainability
- Lifecycle / Supply Chain Approach
- Challenges
- Key Success Factors
- Compliance and Sustainability in the Board of Directors and C-Suite
Background

- EH&S regs are increasing in volume and complexity
- Compliance and sustainability data is difficult obtain, analyze, integrate, aggregate, and requires domain expertise
- Regulatory requirements and sustainability expectations are complex, ever-increasing and evolving to place a greater demand on the Supply Chain
- Compliance management demands access to tools, expertise and data that cannot only manage today's mandates and directives, but offers the flexibility to manage the change of an evolving standards
Risks and Costs of Non-Compliance are Commensurate with Expanding Requirements and Expectations

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Current and Future Regulatory Drivers:

- Homeland Security
- Sustainability/Green initiatives
- Public reporting
- Corporate Social Responsibility (CSR)
- Cap & Trade
- Carbon emissions
- Toxic Substances Control Act (TSCA) Reform
- Total enterprise solution
- Governance, Risk and Compliance
- Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
Vast and Complex Regulatory Landscape

Chemical

GHS: Global Harmonization System

European Chemicals Agency

Registration, Evaluation, Authorization and Restriction of Chemicals

Workplace

Workplace Hazardous Materials Information System (WHMIS)

Health & Safety Commission: UK

Transportation

Transport Canada

Environmental

Security

Local

Criminal

Environment Canada

Umwelt Bundesamt

U.S. Department of Homeland Security

CAL OSHA

TSCA (1)
Ever more complex regulations …

… targeting substances and products …

… affecting the entire supply chain…

… affecting product/substance substitutions

… to secure your business
Global EH&S Regulatory Landscape

- Increase in frequency and volume of regulatory changes
- Burden of assessing and complying with changes is increasing
- Fewer EH&S resources

**Restricted Substances**
- RoHS
- Phthalates
- BPA

**Authorization/Registration**
- EU REACH
- Japan CSCL (PAC)
- Korea MOE

**Classification Labeling**
- Classification
- Labeling
- Packaging

**Environment**
- Carbon Reporting
- Emissions
- GHGs
- Waste – ELV, WEEE
How would you rate the ability of your organization to achieve and maintain compliance with company-wide product stewardship requirements?

- Fully-compliant today -- business processes and technology systems adequate to keep pace with future requirements
- Fully-compliant today -- anticipate the need for enhanced business processes and technology systems adequate to keep pace with future requirements
- Partially-compliant today -- anticipate the need for enhanced business processes and technology systems adequate to keep pace with future requirements
- Partially-compliant today -- reliant on manual business processes; need to invest in technology systems to keep pace with future requirements
- Significantly non-compliant today -- need to enhance business processes and invest in technology systems to keep pace with future requirements

Source: Preliminary results from 3rd Annual CSC/Chemical Week Survey
Key Industry EH&S Compliance Trends

- EH&S compliance initiatives now have much higher visibility in corporate strategies, plans, budgets
- Regulatory costs of non-compliance now recognized to have potentially huge financial, legal and brand/image repercussions
- Pro-active compliance managed as an image and brand issue can offer a competitive advantage
- Environmental regulatory compliance is the baseline for sustainability and CSR initiatives
- EH&S regulatory compliance has increased executive mindshare
  → Rise of executive Compliance and Sustainability Officers
- New regulatory frameworks are critical to globalization plans
- Supply Chain responsibilities expand the role of global sourcing
EH&S Compliance Fines – Representative Samples

Violations and Fines: Examples of “The Big Ones”

- Global Petrochemical Company: $350M+ Fines; $1B in Associated Costs
  - An explosion at a refinery resulting in 15 casualties caused by unenforced and undefined compliance procedures
- Gas Transporter in UK: $30M
  - Explosion killing 4 workers could have been avoided with accurate recordkeeping and well maintained facilities and equipment
- Chemical Company: $13M
  - Environmental releases of organic solvents, explosives, propellants and medals
- Major Retailers: $10M & $22M
  - Fined for improper storage and transportation of hazardous waste

Violations and Fines: Examples of “The Medium-Sized Ones”

- Energy Company: $800,000
  - Fines levied against 68 regulated entities for non compliance in the areas of air quality, waste discharge, municipal solid waste, petroleum storage tanks, public water systems, and water quality levels
- Pulp & Paper Company: $900,000
  - Violated standards for hazardous air pollutants by 230 percent and violated monitoring reporting and recordkeeping requirements. Also allegedly violated state air pollution control laws.
- Shipping Company: $500,000
  - Convicted of violating the Act to Prevent Pollution From Ships (APPS) and sentenced two years probation plus fines.
Emerging Regulations and Regulatory Trends

• Following Europe
  – REACH-like
  – RoHS/WEEE-like
  – Regulating nanomaterials

• More disclosure requirements
  – Lower thresholds
  – Increased data requirements
  – Restriction of CBI / Increased transparency

• Green initiatives and eco-labeling programs
  – DfE
  – EU Ecolabel

• NGO lists coming into play
EU REACH

- Regulation for Registration, Evaluation, Authorization and Restriction of Chemicals (1907/2006/EC)
  - First deadline was 30 November 2010:
    - Phase-in substances > 1,000 t/y
    - CMRs > 1 t/y
    - Substances very toxic to aquatic environment (R50/53) > 100 t/y
  - Second deadline is 30 May 2013
    - Phase-in substances > 100 t/y
  - Third deadline is 31 May 2018
    - Phase-in substances > = 1 t/y
EU REACH (cont’d)

- **Substances of Very High Concern (SVHCs)**
  - Authorization required for substances of very high concern (SVHC) (i.e., CMRs, PBTs, vPvBs) included in Annex XIV (Authorization List)
  - SVHCs identified in Candidate List – 53 SVHCs as of June 2011
  - Currently, 6 substances in Annex XIV

- **REACH notification obligation for manufacturers and importers of articles**
  - M/I must notify ECHA if any SVHC included in the Candidate List is present above 0.1% w/w and if over 1 ton per producer/importer per year
  - Deadline for notification June 1, 2011 (six-month deadline from Dec. 1, 2010 after substance identified as SVHC) if 1 ton reached
  - 76 page guidance on requirements for substances in articles
REACH-like regulations in Asia Pacific

• **Japan CSCL**
  - Japan Chemical Substance Control Law (CSCL) – ‘Kashin-ho’, effective April 1, 2011
    • Establishes mandatory reporting of all chemicals manufactured/imported over 1 ton in the previous year
    • Priority Assessment Chemical Substances (PACS) – currently 88 – specific notification requirements
    • Evaluation, Authorization/Restriction

• **Korea AREC Draft**
    • TCCL – handles already tested, proven hazardous chemicals
    • AREC – handles semi-tested, suspected hazardous chemicals
    • New chemicals notification under TCCL will be repealed and integrated into AREC
    • Establishes mandatory reporting on all chemicals manufactured/imported
    • No tonnage or other exemptions specified
    • Priority Evaluation Chemicals (PEC) – list of chemicals posing risk to human life and the environment – pre-registration period proposed
Restriction of Use of Hazardous Substances in Electric and Electronic Equipment (RoHS)

• EU Directive 2011/65/EU (RoHS Recast)
  – Replaces original RoHS as of 2013
  – Expands the original categories of EEE
  – Exemptions and exclusions remain, with some new in place
  – EU Declaration of Conformity
  – Documentation retention (technical and declaration of conformity) for 10 years

• Scope
  – Same list of substances and thresholds but the new directive opens room for expansion in line with REACH and regulations related to nanomaterials

• RoHS in Asia and the Americas
  – Japan, Korea, India (January 1, 2012), Australia (Draft)
  – US States (California, New Jersey)
Restricted Substance Bans and Regulations

• **BPA** (Bisphenol A)
  - EU Directive banning BPA in baby bottles
  - Other existing or proposed regulatory bans: Canada, Belgium, Denmark, France, South Africa, Turkey, UAE
  - 13 U.S. States with enforceable or accepted legislation scheduled implementation
  - 13 States with pending legislation

• **Phthalates**
  - CPSC bans specific phthalates from children’s toys and other products
  - California Phthalates Law
# Global Harmonized System (GHS) of Classification and Labeling

## GHS Regulation Passed

- **Asia Pacific**
  - New Zealand (2001)
  - Japan (2006)
  - Korea (2008)
  - Vietnam (2008)
  - China (2009)
  - Indonesia (2009)

- **Europe**
  - EU (2008)
  - Serbia (2009)
  - Russia (2009)
  - Switzerland (2009)

- **Americas**
  - Brazil (2009)
  - Uruguay (2009)
  - Mexico (2011)

- **Middle East/Africa**
  - South Africa (2008)
  - Abu Dhabi (2009)

## GHS Draft Regulations

- **Asia Pacific**
  - Australia
  - Malaysia
  - Philippines
  - India

- **Americas**
  - US

## GHS Preparation Activities

- **Americas**
  - Canada
  - Mercosur – Argentina, Paraguay
  - Andean Community – Bolivia, Columbia, Ecuador and Peru

- **Other**
  - Turkey
  - Thailand
  - UNITAR/ILO Global GHS Capacity Building Programme: Cambodia, Gambia, Laos, Nigeria, Senegal, Zambia
Sen. Lautenberg Introduces Chemicals Reform Bill, Saying Current Regulation 'Is Broken'

"[W]e are concerned that the bill's proposed decision-making standard may be legally and technically impossible to meet. The proposed changes to the new chemicals program could hamper innovation in new products, processes and technologies. In addition, the bill undermines business certainty by allowing states to adopt their own regulations and create a lack of regulatory uniformity for chemicals and the products that use them.” --- Cal Dooley, the president and CEO of the American Chemistry Council
Emerging Regulations and Regulatory Trends

• Dodd-Frank Act
  – Section 1502 ‘Conflict Minerals Provision’
  – Applies to tungsten ( wolframite ), tantalum, tin ( cassiterite ), gold from the DRC and adjoining countries
  – Applies to products for which conflict minerals are necessary to their functionality or production
  – Establishes a new reporting requirement on publicly traded companies. A report to the SEC to include:
    • a description of the measures taken by the person to exercise due diligence on the source and chain of custody of such minerals, which measures shall include an independent private sector audit
    • a description of the products manufactured or contracted to be manufactured that are not DRC conflict free
• Impacted Industries
  – Electronics, Medical Devices, Aerospace, Automotive, Jewelry, Industrial Machinery
Analyst Observations: Complexity of Environmental Compliance

“Environmental compliance requirements dwarf SOX in their breadth, scope, and sheer complexity.”

- Simon Jacobson, Research Director, AMR Research/Gartner
New and Expanding Regulations

Regulations

Substances

- EU REACH / CLP
- US TSCA
- JAPAN CSCL / KASHINHO
- CHINA CSCL
- ...

Products

- CA GREEN CHEM
- MAINE GREEN CHEM
- WASHINGTON GREEN CHEM
- EPA DfE

RM Sourcing
Compliance Drivers and Moving from Compliance to Sustainability

What’s driving you and your company to stay compliant?

• Creating a safe place to work
• Making, using and selling safe products
• Eliminating fines and penalties
• Environmental safeguarding
• Sense of personal/corporate responsibility
• Personal liability and personal/social responsibility is a powerful motivator.
• Working toward “the greater good”
• All are key elements of sustainability/corporate social responsibility programs
  – Environmental responsibility
  – Worker/workplace safety
  – Transparency of actions throughout lifecycle
Sustainability: A Corporate Imperative

• Corporate Responsibility
  – Financial responsibility
  – Environmental responsibility
  – Social responsibility

• Sustainable Development

• The Triple Bottom Line – People, Planet, Profit

• Corporate Social Responsibility
  – Social and environmental responsibility

• Corporate Citizenship
  – Incorporating all of the above
CSR / Sustainability Pyramid

- **Discretionary responsibility**
  Contribute to the community and quality of life

- **Ethical responsibility**
  Be ethical. Do what is right. Avoid harm

- **Legal responsibility**
  Obey the law

- **Economic responsibility**
  Be profitable

www.totalqualitymanagement.wordpress.com
Sustainability Hits the Front Page
Less is MORE
  Water
  Energy
  Materials
  Waste

More is LESS
  Recycling
  Reuse
  Reduction
  Reclamation
A Culture of Sustainability includes Consumer Interest

Many Companies And Governments Are Already Seizing The Opportunity To Meet Customer Demands For Greener And Less Energy Intense Products

- Walmart announces next steps in green revolution
- No more plastic bags at Whole Foods
- Electric trucks deliver Coca Cola in Uruguay
- Renault, Nissan explore electric car infrastructure in Israel
- Woolworth works to reduce refrigerant emissions
## Regulatory Drivers in the Supply Chain

### Manufacture
- Global Inventories
  - TSCA
  - DSL
  - REACH
- OSHA
  - MSDS Elements
  - Distribution

### Purchasing
- Internal Corporate Requirements
  - Restricted Chemical Lists
  - Green Procurement Lists

### Logistics
- Transportation Regulations:
  - DOT
  - IATA
  - IMDG
  - TDG
  - ADR/RID

### Storage & Use
- OSHA
  - HazComm
  - OEL’s
- EPA
  - CAA
  - CWA
- Fire Codes
- Local & Regional Requirements

### Disposal
- RCRA (EPA)
- State EPA’s
- Local Requirements
- Other
# Supply Chain Activities

## Manufacture
- Research regulatory & scientific data on substances for final product
- Author MSDS for the finished good
- Evaluate import/export regulations
- Determine regulatory profile for purchased product (REACH, Prop 65)

## Purchasing
- Analyze product information against lists as specified by corporate
- MSDS Review
- Product Hazard / Green Analysis
- Alternative Products Comparison

## Logistics
- DG Classification by Mode of shipment
- Determine Product Routing Protocols n WMS
- Preparation of shipping documentation
- Emergency Response Information
- Evaluate import/export regulations

## Storage & Use
- Communicate product hazards to employees and customers
  - MSDS & Labels
  - Employee Training
  - RTK (Prop65)
- Prepare EH&S Reports
  - Tier II
  - SARA 313
  - Emissions
- Evaluate Store Limits and Arrangements
- Data for IH Evaluation and Controls

## Disposal
- Determine how product will be regulated for disposal (Federal, State & Local)
- Development of Waste Profiles from Raw Materials
- Other Regulated Materials
  - Pharmaceuticals
  - E-Waste
  - White Goods
Impact by Organizational Roles and Responsibilities

**Product Steward**
- Oversees supplier education, data capture and validation.
- Resolves compliance issues working with suppliers and key stakeholders in organization.
- Supports product management, sales, and marketing by performing product analysis and risk assessments.

**Environmental Health & Safety**
- Tracks current and horizon regulations, industry trends and customer requirements.
- Develops corporate product development and supply chain policies as they relate to the environmental performance of products.

**Engineering**
- Identifies technology risks and mitigation plans.
- Selects compliant parts for new designs.

**Product Management**
- Monitors data completeness and risks for product during launch and in production.
- Ensures existing compliance targets are met.
- Ensures new compliance targets are met as they arise.

**Manufacturing**
- Qualifies new suppliers and parts according to corporate environmental policies. Maintains compliant Approved Manufacturer List (AML).
- Ensures quality via testing, incoming inspection, and supplier audits.

**Sales**
- Determines if existing products meet environmental requirements of customers and provides required documentation.
- Captures new environmental requirements of new and existing customers and communicate internally.

**Procurement**
- Procures compliant parts.
- Seeks and qualifies alternative suppliers as required.
- Tracks compliance status of individual vendor lots.

**Information Technology**
- Provides information technology infrastructure needed to comply with current & future regulations.
- Modifies tools for compliance related workflows, search, data capture, analysis, and reporting.
Embedded Product Compliance may hold the Formula for Success

Legal Product Compliance Requirements

How do you **manage** relevant product compliance related **regulations** (Definition, Monitoring, Extraction of requirements, inclusion into product development, etc.)?

Information / Data

Product Development

How to **collect** data related to your **supply chain**?

How do deal with **missing data**

Information / Data

How do you **integrate** product compliance aspects into the **business processes** (marketing, controlling, procurement, sales, logistic)?

Supplier

**Controlling**

Customer

**Procurement**

**Manufacturing**

**Sales**
Supply Chain Collaboration & Data Exchange

• Securing RM
  – Content
  – Source

• Distributing Product Information
  – Distributors
  – Customers

Capture BOMs
Collect compositions, product data and process information
Determine regulatory impact
Analyze for compliance
Mitigate risk
# Key Components to Supply Chain Data Flow

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<th>Component</th>
<th>Description</th>
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<tr>
<td><strong>Collection</strong></td>
<td>Collecting information from suppliers to ensure compliance throughout the supply chain</td>
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<tr>
<td><strong>Analysis</strong></td>
<td>Verification of supplier provided information and analysis tools for compliance</td>
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<tr>
<td><strong>Maintenance</strong></td>
<td>Maintaining this information via a central repository</td>
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<tr>
<td><strong>Dissemination</strong></td>
<td>Central repository for internal access and data delivery to customers and other supply chain participants</td>
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<tr>
<td><strong>Integration</strong></td>
<td>Integration of data/documents into ERP and other tools</td>
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Supply Chain Collaboration

- Challenges
  - Engaging all relevant supply chain participants is difficult
  - Supplier participation key to fulfilling data requirements
  - Critical data needed to satisfy all internal stakeholders must be validated
  - Data maintenance is critical to support complex dynamic regulatory landscape
  - Global regulatory knowledge
  - Change Management: Ensuring suppliers are staying current with newly revised global regulations and proposed legislation
Supply Chain Collaboration

Confidentiality

Confidential Business Information

Transparency
Market Research Findings: Expert Analyst Observations on Sustainability Initiatives

- “Product-Level sustainability footprints and environmental labeling will gain traction”
- “What will really gain traction this year is the idea of providing the full lifecycle picture of a product”
  - Sustainability Trends to Watch Out for, Gartner, 02/02/2010
- New data points to ongoing growth of the sustainability imperative…current tactical initiatives should become increasingly focused on strategy
- Critical drivers for corporate sustainable actions in the manufacturing sector are competitive differentiation, business value, and compliance with the regulatory environment
  - Sustainable Manufacturing During and After Economic Recovery: Increased, Diversified and More Strategic Corporate Actions, Gartner, 06/10/2010
Sustainability Disciplines / Points of Influence

- **Energy**
  - GHG Emissions
  - CO2 Footprint
  - Alternative Power

- **Water**
  - H2O Use Reduction
  - Water Quality

- **Waste**
  - Pollution Prevention
  - Zero Waste
  - Recycling

- **Politics**
  - Social Concerns
  - Human Rights
  - Leadership

- **Chemical**
  - Toxic Use Reduction
  - Green Chemistry
The Importance of Sustainability Initiatives

*Beyond Doing the Right Things, also:*

- Promote transparency throughout lifecycle/supply chain
- Competitive advantage
- Prevent unwanted media attention and corporate scandals
  - Internet social media adds new twist
  - Every incident has the potential to rapidly “go viral”
  - Consumer becomes real-time watchdog
Access to Product-Specific Regulatory Data is Critical

- Essential for complying with standards, establishing benchmarks
- Data fuels EH&S and Sustainability Efforts and can be leveraged for:
  - Greening the supply chain
  - Running cleaner operations
  - Minimizing environmental impact and risk associated with business activities
- Product and substance level MSDS and regulatory content can be tied to product footprint data on:
  - Physical, Chemical, Toxicological, Eco-toxicological data
  - Carbon emissions
  - Water consumption
  - Water generation

but...
- Data is scattered across thousands of sources
  - Must be obtained, centralized, validated, analyzed, translated, updated and monitored
  - Requires complex business rules and best practices
  - Requires highly specialized expertise
Analyst Observations: Complexity and Lifecycle/Supply Chain

"Firms have to manage … the full spectrum of operations throughout the entire lifecycle of their products and facilities, from R&D through transportation to customers—and increasingly to end of life and disposal."

- Simon Jacobson, Research Director, AMR Research/Gartner
EH&S Applications Across Full Product Lifecycle

- R&D
  - Online Reference Regulatory Data Management
  - Integrated Regulatory Data Management
- Manufacture
  - Transportation
- Transport
  - MSDS Management
  - Training
- Use
  - Emergency Response
  - Regulatory Reporting (Research, Permits, Disclosures, etc.)
- Disposal
  - MSDS Authoring & Distribution
  - Waste
Compliance Across the Supply Chain: Upstream

Upstream Product Stewardship

• **Manufacturing**
  - Complex requirements
  - New chemical notifications
    • Product registrations
    • Export notifications
    • Inventory reporting
    • Risk and safety assessments
    • Hazard assessments
    • Dangerous goods classification
  - New global directives, i.e. REACH and GHS
Compliance Across the Supply Chain: Midstream

Midstream Industrial Usage

- **Utilities**
  - Intense regulatory and legislative scrutiny to modernize infrastructure
  - Pressure to reform energy regulations
  - Cost pressures, mergers and acquisitions and deregulation forcing downsizing
  - Difficult to focus and plan for increasing regulatory requirements
  - Changes to energy policy complicates compliance
Compliance Across the Supply Chain: Downstream

Downstream Workplace and Consumer Safety

• Retail
  – Ship and sell hazardous products
  – Brand protection extremely high priority
  – Under significant pressure to cut costs, reduce loss while maintaining high quality products and services
  – Employee turnover vs. high cost to train employees on EH&S related processes and policies
Compliance Across the Supply Chain: Unintended Consequences

• Always consider the unintended consequences. Apply the lifecycle/supply chain approach to the following, for example:
  – Cash for Clunkers
    • Cost of destroying cars?
    • What to do with anti-freeze and oil?
  – Battery powered cars
    • How will batteries be destroyed?
Best Practices

- Develop and Implement a Supply Chain/Product Lifecycle materials protocol
- Work with all internal stakeholders to ensure streamlined approach
- Leverage as much data as possible across all disciplines
- Develop vendor qualification processes with supply chain collaboration processes and participation goals in mind
- Ensure access to updated and accurate data sources to reducing supply chain risk
Key Success Factors for Compliance and Sustainability Management

**Key Success Factors**

- Broad and large
- MSDS product database
- Global regulatory database of substances
- Linkage of both to understand regulatory impacts

**24-7-365 Support**
- Round the clock operations
- Highly accessible, “on call” experts
- Global coverage and support

**Accuracy & Quality**
- Integrity of data
- Accuracy
- Continuous updates from manufacturers

**Full Product Lifecycle / Supply Chain Coverage**
- Span throughout the supply-chain
- Support appropriate environments, such as SAP EHS
- Support Upstream Manufacturer Product Stewardship and Downstream End-User Workplace Safety

**Experience & Expertise**
- Providing critical EH&S services to global operations
- Access to domain experts with relevant degrees and certifications (i.e., environmental health, sciences, engineering; natural resources; chemical engineering; chemistry; law; hazardous materials management; toxicology)
C-Suite Involvement Also Critical

Making the case for compliance:

- Create a *Culture of Sustainability*
  - Top Down
  - More than lip service
- Compliance is the cornerstone of CSR and sustainability initiatives
- Take a full lifecycle approach when addressing both compliance and CSR/sustainability
- Consider liability issues
  - Criminal negligence
- Ensure brand protection
- Build a sound corporate responsible image
Compliance in the Boardroom and C-Suite

- Compliance and the bottom line:
  - Reduce/eliminate fines and fees
  - Reduced likelihood of regulatory intervention
  - Establish/Maintain/Improve relationship with government and community
  - Create a *Team Effort Environment* by promoting employee involvement to increase morale and commitment
  - Strong brand
  - Competitive advantage
  - Cheaper capital from investors (Yes, this matters to them!)
Environment, Energy, and Climate

Environmentally Smart Market Opportunities from R&D Efforts:
By 2015, DuPont will double our investment in R&D programs with direct, quantifiable environmental benefits for our customers and consumers along our value chains.

Products that Reduce Greenhouse Gas Emissions:
By 2015, DuPont will grow our annual revenues by at least $2 billion from products that create energy efficiency and/or significant greenhouse gas emissions reductions for our customers. We estimate these products will contribute at least 40 million tonnes of additional CO$_2$ equivalent reductions by our customers and consumers.

Revenues from Non-Depletable Resources:
By 2015, DuPont will nearly double our revenues from non-depletable resources to at least $8 billion.

Safety

Products that Protect People:
DuPont will enhance our focus on protecting people. We will increase the amount of R&D spent on developing and bringing to market new products that will protect people from harm or threats. Between now and 2015, we will introduce at least 1,000 new products or services that help make people safer globally.
Summary – Take Away Points

• EH&S regulatory compliance more complex to achieve
• Intensifying focus from compliance to sustainability
• EH&S regulatory compliance is a critical component of sustainability initiatives
• A comprehensive sustainability strategy must span across the full product lifecycle and supply chain
• Successful compliance and sustainability initiatives demand comprehensive EH&S regulatory and product data management
• EH&S regulatory compliance initiatives must be a top priority in the Boardroom and the C-Suite