

**AECOM**

# **Sustainable Value Chains**





## Overview

The consumer products manufacturing industry is facing a major challenge: To develop and produce profitable products, while using environmentally sustainable operating practices. Traditionally, the industry dealt with issues such as raw material extraction, procurement, distribution, marketing, sales, and service. In today's global marketplace, stakeholder pressure, coupled with recent regulations and directives are forcing manufacturers to re-engineer their business models to integrate sustainable standards and metrics into their day to day operations. New or revised standards include the European Union's WEEE/RoHS directives and REACH regulations, the United States' proposed mandatory reporting rule for greenhouse gases (GHG), California's Global Warming Solutions Act of 2006, and California's Low Carbon Fuel Standard.

AECOM helps clients to reduce their impact on the environment and embrace sustainable design principles, while strengthening their operations, improving financial performance, and increasing product quality and manufacturing capabilities.

## Our Approach

AECOM's sustainable solutions focus on minimizing the operating costs of assets through the use of new technologies that eliminate inefficiencies, saving energy and non-renewable resources, improving product quality, and reducing environmental impacts and costs.

- **Product and Service Differentiation.** Application of new eco-efficient standards in design for the supply of energy and resources and for the development of facilities, processes, and infrastructure.
- **Cost Reduction.** Minimization of operating costs of assets through the use of new technologies that eliminate inefficiencies, save energy and non-renewable resources, and reduce environmental costs.
- **Risk Management and Mitigation.** Reduction of risks related to the increasing cost and scarcity of natural resources, as well as risks arising from regulatory changes in areas such as energy efficiency and GHG emissions.
- **Corporate Image and Public Relations.** Corporate distinction achieved through sustainable development practices, and the optimization of communication with key stakeholders including suppliers, vendors, and customers.

## Our Sustainability Partners

AECOM has established memberships or partnerships with many other leading organizations to stay abreast of new and emerging regulations, voluntary programs and initiatives and available resources. These partnerships allow us to tap into this collective knowledge and experience and provide our clients with the most current ideologies and methodologies being deployed in the marketplace.



World Business Council for  
Sustainable Development







## Areas of Expertise

AECOM provides a diverse set of services to support our clients' emerging and ongoing business needs, and support their sustainability programs in mission-critical areas.

**Carbon Management.** As regulations increase and countries implement carbon pricing structures such as "cap and trade" programs, we help our clients measure, manage, and ultimately reduce their carbon output through a variety of services:

- Carbon Footprinting and Disclosure
- GHG Emissions Inventory Management
- Life Cycle Assessment
- GHG Emissions Verification
- Carbon Sequestration Feasibility Studies

**Water and Wastewater Management.** To combat the increase in total water costs, we develop solutions that conserve water resources, lower water consumption, reduce treatment and management costs, and maintain compliance:

- Water Footprinting
- Low Impact Development
- Sustainable Water Supply
- Waste Use Minimization and Wastewater Recycling

**Waste Reduction and Energy Conservation.** To mitigate energy costs and pressure on companies to minimize solid waste, we offer services which increase sustainability and lower long-term costs:

- Waste Inventories
- Waste Minimization and Recycling
- Energy Audits and Conservation Programs
- Feasibility Studies, Design and Valuation of Alternative or Renewable Energy Sources
- By Product Recovery

**Management Systems.** Our environmental, health and safety (EHS) management systems approach integrates seamlessly into not only our clients' daily operations, but also enhance sustainability programs and initiatives.

- Management System Design, Development and Implementation
- Management Systems Assessments and Certification (ISO 14001)
- Eco-Efficiency Auditing
- Product Stewardship

**Corporate Sustainability Consulting.** Cost-efficient sustainability programs minimize our clients' ecological footprint, help achieve compliance with applicable regulations, and enhance corporate image.

- Sustainability Strategy Development
- Corporate Sustainability and Social Responsibility Reporting
- Performance Metrics Program and Scorecard Design
- Supply Chain Management and Green Procurement
- Stakeholder Outreach and Engagement
- Development of Communication Plans

**Green Building.** AECOM can help design physical and operational solutions to meet company sustainability goals and environmental requirements through

- Green Building Assessments and Certification (e.g., USGBC LEED Green Building Rating System, GBI Green Globes Assessment & Rating System and BRE Environmental Assessment Method)
- Green Building Operations and Maintenance Programs
- Facility & Manufacturing Process Optimization and Engineering

## Auxiliary Services

AECOM also offers a wide range of Environmental, Health and Safety (EHS) compliance assurance and third-party auditing services to assist you with the day-to-day management of regulatory obligations and reporting requirements. Our industry-leading International Audit Protocol Consortium (IAPC) supports cost-shared development of EHS audit protocols that meet regional

and national requirements around the world. Each protocol features in-depth examination of a country's current regulatory requirements, including guidance documents and codes of practice. IAPC protocols are written in clear English and are available for over 30 countries including Australia, China, India, Japan, Thailand, Philippines, Indonesia, Malaysia, Singapore and South Korea.

### **About AECOM**

AECOM is built to deliver a better world. We design, build, finance and operate infrastructure assets for governments, businesses and organizations in more than 150 countries. As a fully integrated firm, we connect knowledge and experience across our global network of experts to help clients solve their most complex challenges. From high-performance buildings and infrastructure, to resilient communities and environments, to stable and secure nations, our work is transformative, differentiated and vital. A *Fortune 500* firm, AECOM companies have annual revenue of approximately US\$18 billion.

See how we deliver what others can only imagine at [aecom.com](http://aecom.com) and [@AECOM](https://twitter.com/AECOM).

### **Our Sustainability Partners**

World Business Council for Sustainable Development [www.wbcsd.org](http://www.wbcsd.org)

United States Council for Sustainable Development [www.usbcsd.org](http://www.usbcsd.org)

United States Green Building Council  
[usgbc.org](http://usgbc.org)

California Climate Action Registry  
[climateregistry.org](http://climateregistry.org)

Corporate Wetlands Restoration Partnership  
[cwrp.org](http://cwrp.org)

EPA Green Power Partner  
[epa.gov/greenpower/partners/partners/ensrcorporation.htm](http://epa.gov/greenpower/partners/partners/ensrcorporation.htm)

World Environment Center  
[wec.org](http://wec.org)

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