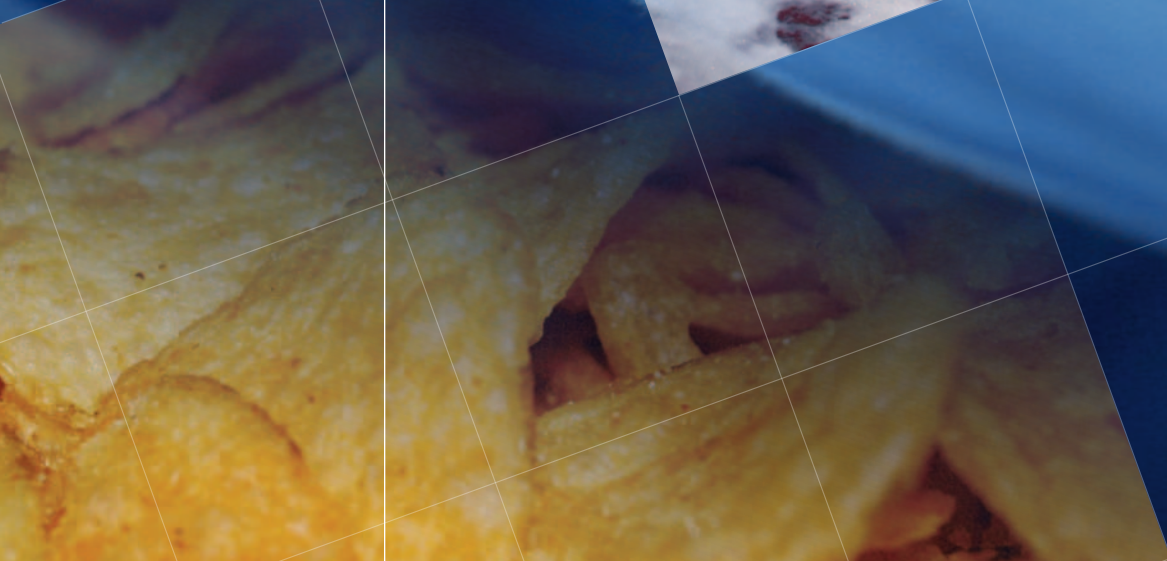




Delivering Integrated Services to the Food & Beverage Industry

**CDM
Smith**

- Water / Wastewater
- Compliance
- Energy Consulting
- Waste Management
- Air Quality
- Design-Build
- Architectural /
Engineering
Design Services





CDM Smith provides lasting and integrated solutions in water, environment, transportation, energy and facilities to public and private clients worldwide. As a full-service consulting, engineering, construction and operations firm, we deliver exceptional client service, quality results and enduring value across the entire project life cycle. With nearly 6,000 employees working from 120+ offices worldwide, we have the size and stability needed to succeed on the most complex projects. Our philosophy for success is simple: listen carefully, think about the best approach from the big picture to the smallest detail, and deliver a complete sustainable solution to meet each client's unique needs.



To help our clients address water quality challenges, we apply our experience developing sustainable water and wastewater management strategies to minimize consumption, reduce or eliminate discharges, optimize reuse / recycle, reduce operating costs and meet regulatory requirements.

Integrated Solutions for the Food & Beverage Industry

We understand the challenges faced by the food and beverage industry including unrelenting competition, leaner budgets, growing production demands, aging facilities, stronger environmental commitments, heightened public scrutiny and more sophisticated consumers, workforce and operations efficiency and complex program management needs.

CDM Smith provides a full range of construction services. Working under a variety of mechanisms from traditional design-bid-build and program management, to construction management (CM) and CM-at-risk, design-build, design-build-operate and design-contract-build, we involve our construction professionals early in project planning and design to help our clients choose the right delivery method, while verifying cost management and effective quality control. Backed by over 60 years of experience and building know-how, CDM Smith offers extensive in-house construction capabilities and an award-winning safety record—meeting our clients' needs for cost savings, quality and reliability, expedited schedules and smooth operations.

CDM Smith helps our clients meet a variety of ongoing compliance needs such as permitting, regulatory negotiating, emission / discharge monitoring and reporting, long-term planning and facility auditing.



CDM Smith provides integrated energy solutions to our clients that consider both demand-side management / energy conservation and supply-side management / energy production.



Services we offer to our Food & Beverage Clients

Environmental and energy impacts on facility operations have created challenges for food and beverage manufacturers. Many in the industry are taking the initiative to develop sustainable solutions for energy, water conservation, wastewater treatment and waste reduction. CDM Smith can support these efforts with conceptual planning, technical engineering, environmental permit and compliance assistance, construction management services and operations and maintenance (O&M) support. CDM Smith has extensive experience and expertise in the services necessary to develop and implement environmental and energy strategies. We can help you design, permit, build, operate and maintain environmental and infrastructure facilities. Our relevant services include:

Environmental Services

- Water and wastewater treatment
- Reuse / recycle optimizations
- Treatability and pilot studies
- Air quality services and greenhouse gas management
- Permitting and compliance services

Energy & Utilities Optimizing

- Energy audits / assessments
- Energy procurement and demand management
- Renewable energy evaluations
- Waste-to-energy solutions

Engineering / Construction

- Sustainable master planning
- Utility and infrastructure evaluations
- Facilities design and expansion
- Full-service design
- Design-build and construction management

CDM Smith is one of the pioneers of the “appropriate technology” approach to water and wastewater management necessary to develop the most efficient and cost-effective plans.



With CDM Smith, you can choose design-build, rather than the traditional design-bid-construct. This approach offers several key advantages such as faster delivery, a collaborative team approach and single point of responsibility.

Wastewater Treatment System and O&M Improvements - As part of a corporate environmental initiative to review wastewater management practices, CDM Smith reviewed wastewater management practices for a confidential manufacturer at six North American prepared foods factories. CDM Smith identified current wastewater sources and characteristics and reviewed existing water use and waste segregation practices, current wastewater and segregated waste disposal costs and water use and waste handling practices. Based on these evaluations, CDM Smith recommended capital improvements and operational considerations to reduce water use, improve overall performance and minimize O&M costs.



Global Operations Risk Analysis -

To help a multi-national beverage manufacturer understand and evaluate risks related to operating and expanding their global operations and address global trends such as climate change, CDM Smith designed and developed a decision support system similar to a risk assessment process. This risk analysis framework and decision support tool provided the critical information necessary to assess, communicate and manage risks at all levels of the organization. This information facilitates decision making, identifies necessary and critical assessments, supports strategy development, prioritizes mitigation actions and provides a roadmap to reduce risks to an acceptable level. This tool serves as an invaluable component of their strategy for success as a sustainable growth company.



Air Quality Facility Evaluation and Design -

For over five years, CDM Smith has provided architectural and engineering services to a confidential soup and baby food client. Services included the design and construction of new Air Pollution Control (APC) equipment for the factory's four coal fired boilers and the preparation of a 3D sketch-up rendering of the 20-acre site. CDM Smith prepared the related environmental and building permit applications for the APC equipment as well as the factory's water supply permit renewal application that consolidated all the factory's previous permits over a 60-year period. CDM Smith also prepared design packages for a new security building and entrance gate, relocation of the plants Research and Development Kitchen and new 4160V substation.





Wastewater Treatment Assessment and Design - In response to growing product demand and increased wastewater production, CDM Smith conducted a comprehensive review of the current wastewater loadings and activated sludge treatment system at a confidential client's butter and milk solids plant. The plant processes up to six million pounds per day of milk into butter and non-fat dried milk products. CDM Smith conducted an operations assessment of the current system and made recommendations for short-term operational improvements that were then implemented. CDM Smith also assisted with water quality management permit applications and provided engineering support during construction.

CDM Smith's Experience Working with the Food & Beverage Industry

CDM Smith has provided services to food and beverage manufacturers and producers of dairy products, snack foods, soft drinks, juices and bottled water, distilled and brewed beverages, frozen foods, bakery products, egg processing, fresh produce and meat / poultry. Some of our clients include:

- Bay Valley Foods
- Boston Beer Company
- Campbell Soup Company
- Cargill, Inc.
- Contessa Premium Foods, Inc.
- Coors Brewing Company
- Del Monte Foods, Inc.
- E. & J. Gallo Winery
- F.B. Purnell Sausage Co., Inc.
- Food Services of America
- FrieslandCampina
- Frito-Lay North America, Inc.
- General Foods Corporation
- General Mills, Inc.
- Green Giant, Inc.
- Häagen-Dazs, Inc.
- Holland Dairy, Inc.
- J.R. Simplot Company
- Kraft Foods, Inc.
- Ken's Foods, Inc.
- Knouse Foods, Inc.
- The Kroger Company
- Land O'Lakes, Inc.
- Maple Leaf Bakery, Inc.
- Maximus Coffee Group, LP
- Miller Brewing Company
- Nestlé USA
- Nestlé Waters North America
- Ocean Spray Cranberries, Inc.
- Pillsbury Company
- Sara Lee Corporation
- Snyder's of Hanover
- Southwest Cheese Co. L.L.C.
- Stockpot, Inc.
- The Wine Institute
- Tropicana Products, Inc.
- Unilever Company
- Welch's Foods

Innovative Process Water Recovery Design-Build - CDM Smith designed and constructed a water reuse system at Frito-Lay's Casa Grande, AZ manufacturing facility that enables between 50 and 75 percent of the facility's process water to be cleaned and reused within the plant. This one-of-a-kind facility dramatically reduces the amount of water discharged from the plant, which had been historically used for the land application of wastewater. The space from the reclaimed land is being used for solar and biomass boiler systems that produce almost all of the steam and electricity needed to operate the plant. This project received the 2009 BE Inspired Award in the "Innovation in Water and Wastewater Treatment Plants" category.

Solar Power System Design-Build - As part of Frito-Lay's "Near Net Zero" Program, CDM Smith worked under a Power Purchase Agreement for partial design and complete construction of a 3.247 megawatt-DC (MW) photovoltaic solar power system. The new solar system produces almost all of the electricity needed to operate the plant during daylight hours. Once this solar powered system is combined with a separate 1.47 MW system that CDM Smith is constructing onsite, it will be one of the largest food industry photovoltaic solar systems in the United States.





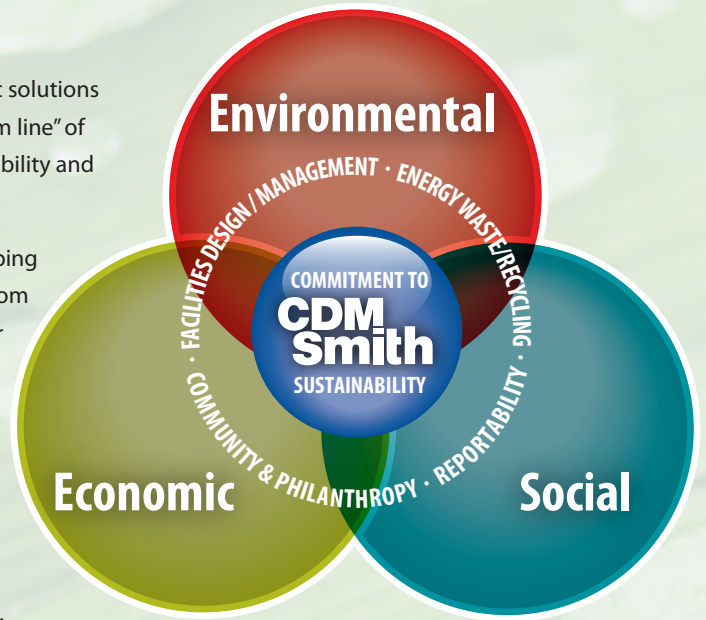
CDM Smith has in-house expertise necessary to design photo voltaic systems of any size. Our experts work with public and private clients to design and implement systems that meet individual power needs and standards.

Committed to Sustainability

Today's food and beverage industry needs cost-effective, pragmatic solutions to improve environmental performance. We apply the "triple bottom line" of sustainability to help you achieve economic growth, social responsibility and environmental stewardship.

CDM Smith is a leader in this field and we are committed to developing holistic solutions to sustain your environmental programs and bottom line. We not only deliver innovative and sustainable solutions to our clients, but are more committed than ever to sustainable business practices in our own operations.

Increasing corporate emphasis on sustainability through the "triple bottom line" provides a lower-cost, higher-value solution. CDM Smith works with our clients to create holistic strategies and systems that improve our clients' business performance by using tools and designs that are sustainable and environmentally friendly.



CDM Smith is committed to continually improving environmental value, quality of life and economic prosperity—for the firm, our clients and the communities in which we live and work.



CDM Smith provides leadership and excellence through environmental stewardship, social responsibility and economic growth by integrating sustainability into project planning, design, execution and delivery.





CDM Smith maintains a health and safety program that minimizes the number of injuries and illnesses, with the ultimate goal of zero.

Committed to Health and Safety

CDM Smith partners with all of our clients to meet or exceed health and safety (H&S) requirements. This close coordination and communication promotes the safest possible work environment for all personnel involved. Our H&S program is guided by the belief that our people are our greatest asset and that their H&S must receive top priority and support from each and every employee. CDM Smith's comprehensive corporate H&S monitoring program provides a consistent and structured approach to reduce and/or eliminate incidents. We utilize behavior-based programs and maintain systems to track performance and implement corrective actions. Our commitment to H&S safety is demonstrated by our safety ratings: our current experience modification rate (EMR), total recordable incidence rate (TRIR), and lost time injury and illness rate (LTIR) are well below industry averages.

The effectiveness of CDM Smith's comprehensive health and safety program is demonstrated by several national safety awards we have won and impressive health and safety ratings that are below industry averages.



The "Good Catch" program celebrates and shares near misses, near losses, or good catches across CDM Smith by using experiences as a learning mechanism and celebration of process improvement. This proactive behavior improvement program recognizes the importance of reporting and sharing information about H&S activities to drive continual improvement.



Delivering Services Safely Through Our Worldwide Presence

**CDM
Smith**
cdmsmith.com

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Islamabad, Pakistan

Shanghai, China

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