

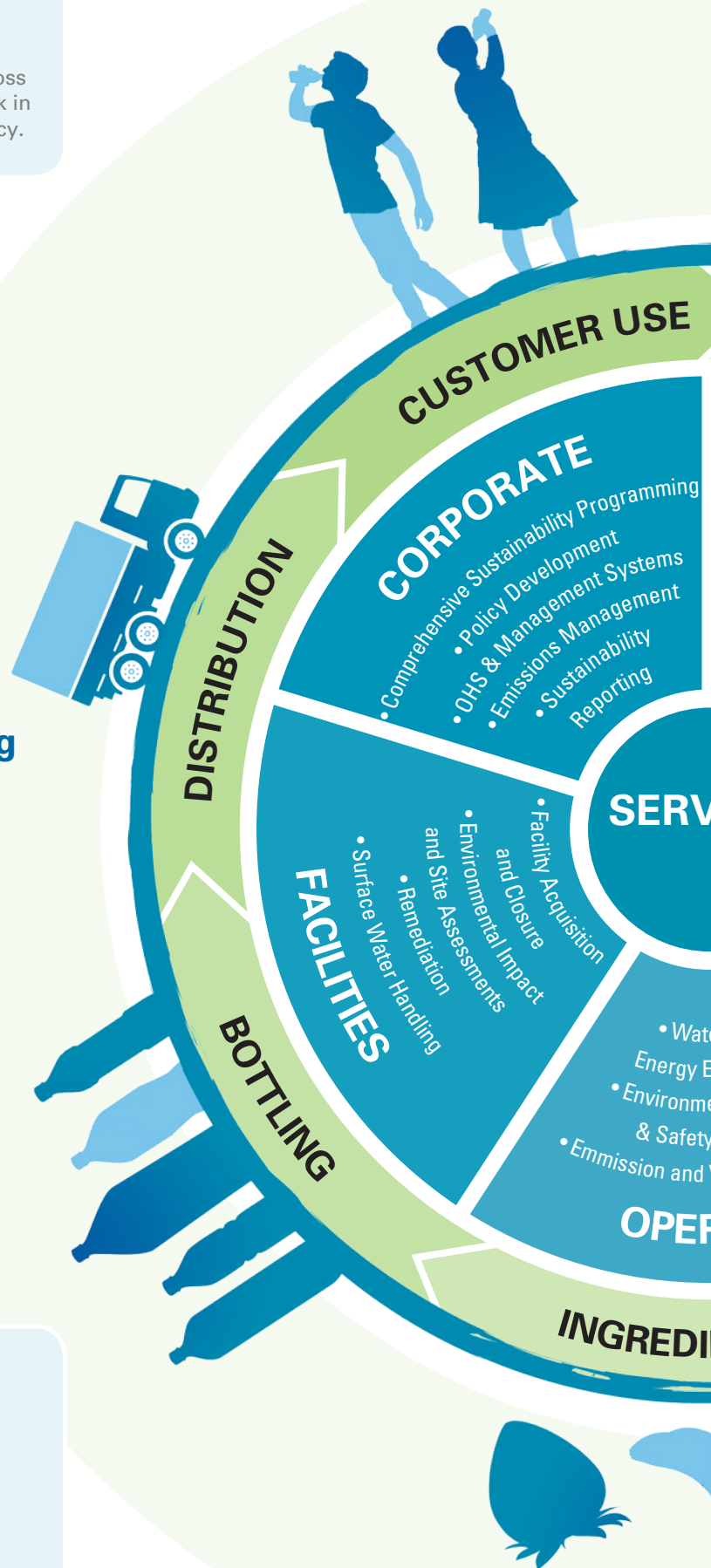
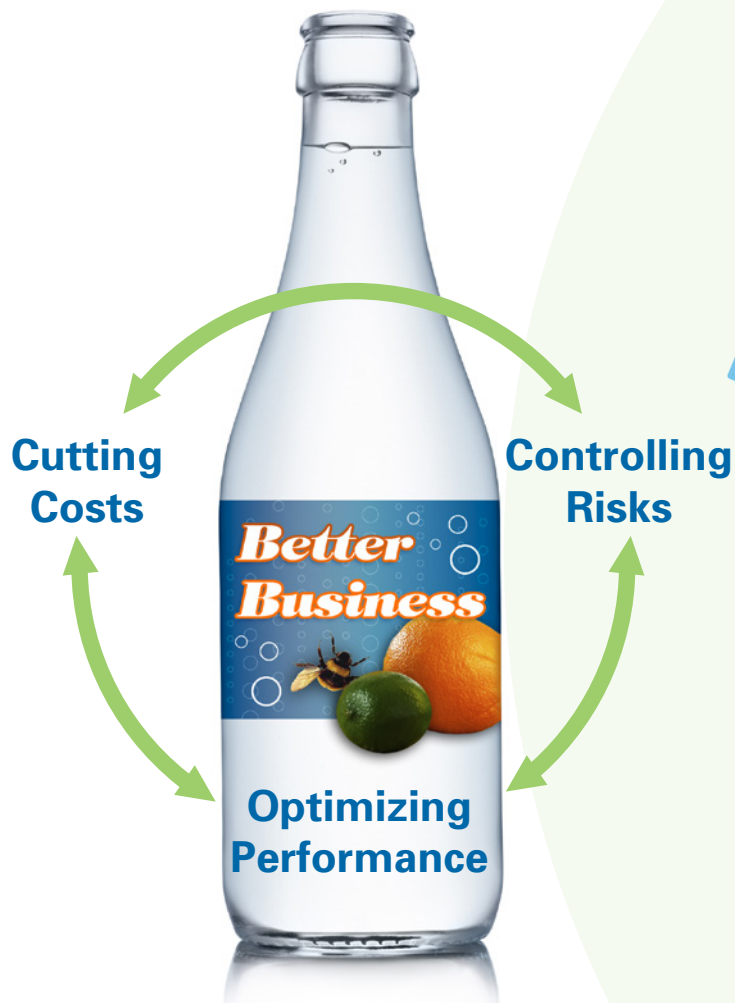
Food & Beverage Services



MWH®

About MWH

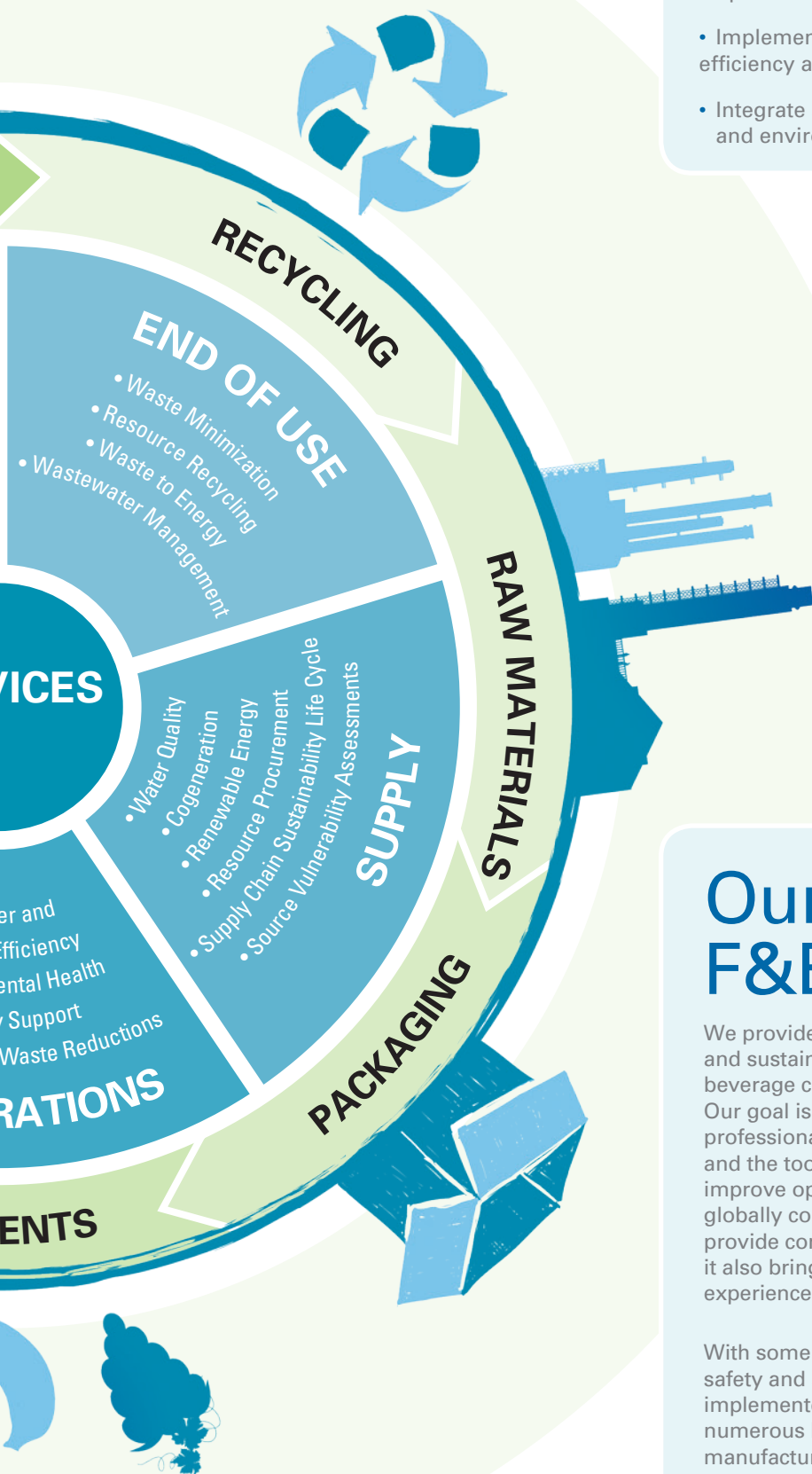
MWH is a full-service global consulting, engineering and construction company providing world class expertise across water, energy, waste and infrastructure. Wherever we work in the world we aim to improve lives and leave a lasting legacy.



MWH Offers 150 Years of Experience

focused on water, energy and the environment

- Local resources connected to a global network of technical experts
- Ideas, expertise and technology that improve operational performance
- Consistent, seamless delivery across geographies
- World-class health and safety performance
- A world leader in water consulting



MWH Helps Food & Beverage Companies achieve sustainability throughout their product lifecycle:

- Identify liabilities associated with Environment, Health and Safety (EHS)
- Effectively manage risk and liabilities to improve operational performance
- Implement operational improvements to increase efficiency and decrease impact
- Integrate sustainability policies with social, economic and environmental dimensions

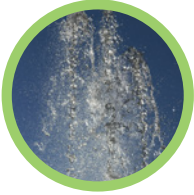
“We provide comprehensive environmental health, safety and sustainability management services.”

Our services to F&B companies

We provide comprehensive environmental health, safety and sustainability management services to assist our beverage clients through each stage of their operations. Our goal is to ensure that you meet your goals. MWH professionals provide leadership, knowledge, experience and the tools necessary to solve industrial challenges and improve operational performance. Having our employees globally connected and engaged not only allows us to provide consistent, seamless delivery around the world, it also brings global insight, skills and technological experience to bear for our local clients.

With some of the best talent in environmental, health, safety and sustainability, our professionals have developed, implemented and supported industrial programs for numerous Fortune 100 companies and diversified manufacturers across 6 continents. We routinely support our clients in issues related to environmental health and safety due diligence, compliance assurance, water conservation, water treatment, climate change, energy efficiency, and renewable energy. Throughout the entire operations process, whether industrial or financial, assembly line or

Projects



Improving Effluent Water Quality

For a beverage plant facing pH issues in water, MWH designed and installed a batch two-stage pH adjustment system for peak hydraulic loads of up to 100,000 gpd, capable of equalizing both high pH flows from sanitizing and low pH flows from filler lines, syrup rooms and can- and bottle-crushing.



Assessing the Energy Life Cycle

Comparing conventional systems to alternative technologies, MWH performed a Life Cycle Assessment of the refrigeration systems used to cool trucks transporting goods. The analysis included investment and operational costs, environmental impact and efficiencies and enabled the client to make an informed



Reducing Energy Use

For several years, MWH was responsible for the annual energy monitoring activities and providing advice on energy reduction research projects for companies in the meat processing industry in the Netherlands, as part of their energy efficiency agreement. As a result, the companies together managed to achieve a decrease in CO₂-emissions of 28 kt per year.



Achieving Sustainable Compliance

A global manufacturing company with more than 50 sites partnered with MWH to achieve sustained environmental, health and safety compliance. MWH worked side by side with the corporate and facility staff to identify issues and develop corrective measures that considered process, procedures, and resource changes.



Changing Waste into Energy

To help a brewery client find a sustainable solution for disposing spent grain, MWH designed an approach that mechanically dried the grains and then used them as fuel in a special biomass furnace. This system produced nearly 60% of the primary energy needs of the brewery, saving the equivalent of 25 GWh per year.



Saving Money through Water Efficiency

By developing a water balance and various water use reduction methods and treatment processes for

Contact

Offices in the Netherlands

Poortweg 4, 2612 PA Delft
T: +31 15 751 1600
E: MWHdelft@mwhglobal.com

Westervoortsedijk 50, 6827 AT Arnhem
T: +31 26 750 7500
E: MWHarnhem@mwhglobal.com

Jordy Hof
Business Developer

Jordy.Hof@mwhglobal.com

Offices in Southern Europe

via Salandra, 18 -00187 Rome - **Italy**
T: +39 06 42 272 262

Centro Direzionale Milano 2
Palazzo Canova 20090 Segrate (Milan) - **Italy**
T: +39 02 210 841, F: +39 02 269 242 75

Cevatpasa Sok n° 20 - Kosuyolu –
Kadikoy
34718 Istanbul - **Turkey**
T: +90 216 340 0020

www.mwhglobal.com