



RSK FOOD AND DRINK INDUSTRY SERVICES: AT A GLANCE

We are what we eat. This is why, at RSK, our mission is to provide full-value-chain services to the global food and drink industry that comply with the highest environmental and social standards.

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WHY RSK?

The global food and drink industry is facing an evolving set of challenges: consumers, investors and regulators are demanding products that are both ethical in origin and produced in an environmentally friendly and sustainable way.

For food and drink businesses, this means having more sustainable and ethical raw-material supply chains, and a greater focus on energy efficiency, water consumption, waste management and greenhouse gas emissions across production facilities.

At RSK, we understand these challenges. With over 75 years of experience supporting the food and drink sector, we combine the knowledge and expertise of more than 80 complementary environmental, geotechnical and engineering companies to support businesses across the full value chain in developing solutions that are cost-effective, ethical, sustainable and environmentally friendly.

Collaborations on hundreds of projects across the UK, Europe and around the world have taught us a great deal about the need for innovative and bespoke solutions. From helping you understand your supply chain better and reducing its carbon footprint and impact on the environment, to identifying, selecting and developing new facilities, through to reducing the greenhouse gas emissions of your distribution networks, our international team of technical and policy experts will ensure you receive industry-leading support.

We are committed to helping our clients make the transition to a sustainable and low-carbon economy. If you want to know how we can help your business meet these challenges, please get in touch.



To learn more, visit us at:

www.rskgroup.com

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SUPPLY CHAIN AND RESPONSIBLE SOURCING

Start as you mean to go on

At RSK, we care as much about where our food comes from as you do. Whether you are sourcing cane sugar from the Caribbean or beet sugar from Europe, making sure that your raw materials are procured from ethical and sustainable sources is the first important step to ensuring that your product value chain minimises environmental and socioeconomic impacts.

Our supply-chain specialists have extensive knowledge of global supply chains. They will work with you to ensure that your raw material suppliers are adopting the best ethical and environmental practices so that your supply chain is socially responsible, environmentally friendly and sustainable.

Our supply chain services

- Responsible sourcing
- Crop and livestock science research
- Sustainable agriculture supply chains
- Regenerative agriculture
- Supply chain environmental and sustainability reporting

EXAMPLES OF OUR WORK

Sustainable supply chain

RSK ADAS was commissioned by SABMiller to research and identify farm-level drivers and barriers that influence the sustainable production of barley in the southern hemisphere. The results enabled SABMiller to develop more sustainable barley supply chains.

Crop-resilience research

RSK ADAS leads an applied-research consortium tasked with identifying and developing disease, pest and weed management solutions for the fruit and vegetable farming sector. This has led to the identification and approval of 70 new plant-protection products that increase crop resilience and yields.

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ENVIRONMENT AND SUSTAINABILITY

Business risk management

Like you, we care deeply about the environment, and we understand the risks that poor environmental and sustainability practices pose for businesses. We know how to mitigate these risks to help you build long-term business resilience.

Our specialists are experienced in, and passionate about, advising and guiding businesses in complying with strict environmental and sustainability regulations while remaining competitive.

Environment and sustainability services

- Natural resource modelling and optimisation
- Waste management
- Wastewater management
- Biodiversity studies and assessments
- Molecular diagnostics
- Climate-change business risk
- Land-use change assessments
- Chemical environmental fate (eFate) studies
- Food production practices and their impact on the climate
- Coastal engineering and management



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EXAMPLES OF OUR WORK

Environmental due diligence

A private equity firm needed to identify potential environmental and climate liabilities and risks before the planned divestment of a global bakery business. Our environmental experts conducted detailed environmental due diligence, which included visiting 20 production sites across Europe and China.

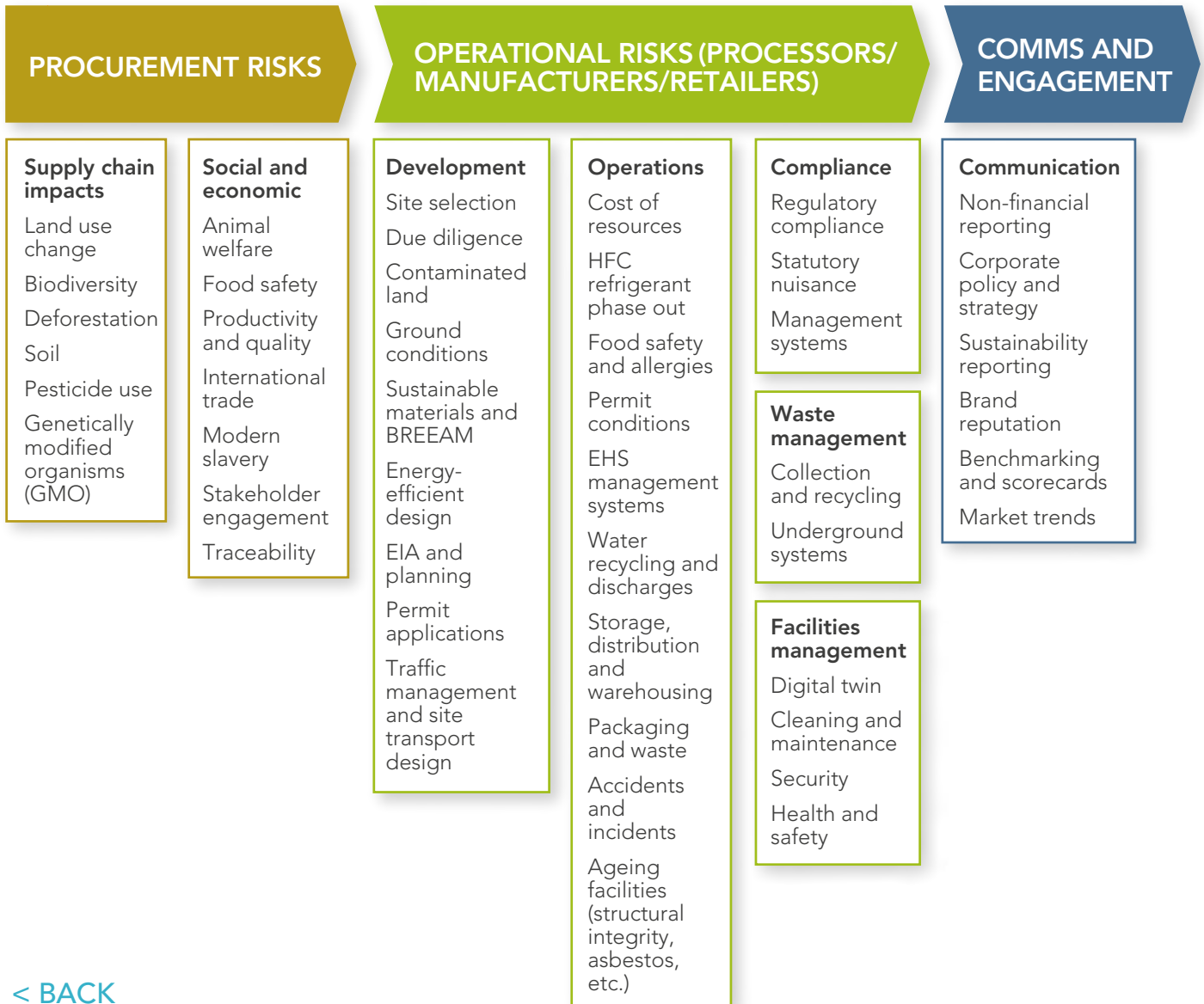
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SUSTAINABILITY ISSUES IN THE FOOD AND DRINK VALUE CHAIN

Our partnership can identify and provide solutions to each of these traditional and emerging issues.

TRANSPORT AND LOGISTICS • WATER – AVAILABILITY/USE/QUALITY
 SOCIAL/GOVERNANCE • WASTE • CLIMATE CHANGE – RESILIENCE/MITIGATION
 ENERGY • AIR QUALITY/ODOUR • HEALTH AND SAFETY



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CARBON MANAGEMENT AND EMISSIONS REPORTING

The demand for disclosure on climate-related business risk is increasing the need for companies to account for, and report on, their greenhouse gas emissions. However, this process can be complex and time-consuming.

At RSK, we will guide you every step of the way and make sure that your disclosures are complete and on time. We can also develop science-based strategies to help you better manage your emissions and use of natural resources.

Carbon management and emissions reporting services

- Operations carbon reporting (scopes 1, 2 and 3)
- Product life cycle assessments
- Science-based net zero strategy and carbon management planning
- Greenhouse gas verification and assurance
- Energy and resource efficiency auditing
- Streamlined energy carbon reporting
- Energy Savings Opportunity Scheme



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EXAMPLES OF OUR WORK

Carbon reduction and management

RSK worked with PepsiCo to support crisp manufacturer Walkers to reduce greenhouse gas emissions from its UK potato growers by 50% over five years. We introduced the Cool Farm Tool and trained growers in using it to measure emissions and the progress of carbon-management plans. Across the five years, the potato growers delivered an average greenhouse gas reduction of 50%.



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SITE SELECTION AND INVESTIGATION

Find a site that is right

Finding and selecting the right site for your production, storage or retail facilities can be a complex process. There are many factors to consider, including environmental hazards, such as flooding and ground movement, and potential social impacts, for example, traffic and noise.

Our specialists are experts in identifying and investigating the ideal site for your facilities, and, when you have made your decision, our team will ensure that you have all the correct permits and paperwork in place when you need them.

Our site selection services

- Environmental permitting
- Site condition assessment
- Ground investigation
- Archaeological evaluation
- Ecological assessment

EXAMPLES OF OUR WORK

Sustainable supply chain

As part of the development of its Buntingford distribution depot, Sainsbury's needed to test the suitability of the ground for heavy warehouse floors. RSK undertook detailed ground investigation work, including plate-loading tests, to assure the client that the site was suitable for the development.



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BUILDINGS AND STRUCTURES

Delivering a controlled environment

Buildings and structures are integral parts of any food or drink production facility. They need to provide regulation-compliant operating spaces that are safe and minimise physical, chemical and biological hazards.

Our team of building and structure specialists understands these challenges. Whether you are planning a new facility or the expansion of your current operating space, our project managers and engineers will guarantee you bespoke solutions to ensure that you have the optimal operating environment you need.

Our buildings and structures services

- Structural surveying, inspection and investigation
- Structural maintenance and cleaning
- Acoustic, noise and vibration assessments
- Special access assessment
- Due diligence and risk mitigation
- Health, safety and fire assessment
- Structure end-of-life surveys
- Building change of use
- In-house laboratory and integrated reporting



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EXAMPLES OF OUR WORK

New Haribo production facility

RSK provided full mechanical and electrical design for Haribo's new, UK-based production facility; this included 3D coordination of all integrated services. We also advised Haribo on energy management and renewable technologies and provided BREEAM-specialist input.

Glenfiddich distillery expansion

Glenfiddich needed to expand its distillery production facilities at the company's Dufftown site in Scotland. Proximity to vibration-sensitive processing equipment meant that RSK engineers had to develop a tailor-made solution to minimise impact on the existing production facilities. The restricted location also required specialist planning for materials storage, site access and construction waste management.



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FACILITY DESIGN AND ENGINEERING

Every detail counts

At RSK, we understand that every detail counts. From the design and layout of your operating space down to the choice of equipment and individual fixtures and fittings, we know what it takes to plan and deliver optimised operating spaces that are safe and hygienic.

Our design and engineering specialists have extensive experience of developing tailor-made solutions that comply with rigorous health and safety regulations and procedures in the UK and Europe and around the world. This means that your facilities can concentrate on what they do best: producing great products.

Facility design and engineering services

- Architectural design and planning
- Renewable energy feasibility studies
- Renewable energy installation and maintenance

EXAMPLES OF OUR WORK

New Nestlé production facility

Nestlé was developing a new, UK-based production facility, including packing facilities, central plant and associated services. Working with the Nestlé team, RSK design engineers assessed the best-value internal and external lighting solutions while agreeing standards and the mechanical and electrical design scope to RIBA Stage F.

New Pepsi factory

As part of Saudi Industrial Beverage Company's (SIBCO) new Pepsi factory development in Jeddah, Saudi Arabia, RSK provided design advice and guidance on international food hygiene compliance and specialist food-safe lighting design in process areas.

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WATER

From source to sea

Water is a precious resource that is essential for life but is under severe pressure from climate change and population growth. RSK delivers sustainable solutions across the whole water life cycle, securing and managing water supply using methods such as boreholes and river abstractions and treating wastewater as a valuable resource for reuse and recirculation. We are at the forefront of the development of innovative and sustainable water infrastructure around the world. We collaborate to provide the right solutions for agricultural and production needs, ensuring a reliable and sustainable water supply. We have the capability to provide a wide range of services across the entire water cycle, from sourcing raw water and constructing and maintaining reservoirs and dams to facilitating potable water treatment, water transmission and water reuse.

We work on some of the most complex wastewater projects in some of the highest regulated environments in the world. We recognise that wastewater is a valuable resource for water reuse and recirculation, as well as energy or nutrient recovery. A key component of our approach is optimising not only the asset but also the operational cost while minimising the impact on communities and the environment.



To learn more, visit us at:

www.binnies.com

and at:

www.envireauwater.co.uk

CONSULT, DELIVER, MANAGE

Our services cover the full project cycle:

- planning and feasibility studies
- sustainable procurement
- full-scale engineering and construction ('design and build') delivery
- operational efficiency.

CASE STUDIES

Grant's Distillery

Engineers from RSK companies Envireau Water and Binnies provided technical support and advice to William Grant & Sons Distillers on river water abstraction options at their Glenfiddich distillery facility in Scotland. The existing river abstraction was subject to build-up of sediment and blinding. Our engineers carried out a technical review and hydraulic analysis of the existing abstraction configuration and provided recommendations for potential solutions that would enable the abstraction point to remain operational at all times.





RSK works with a range of clients across the UK and internationally.

UK CLIENTS



INTERNATIONAL CLIENTS



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