INTEGRATED ENVIRONMENTAL SERVICES

WWW.RAMBOLL.COM/ENVIRONMENT
Ramboll is a leading engineering, design and consultancy company founded in Denmark in 1945. We employ close to 10,000 experts and have a significant presence in Northern Europe, India and the Middle East. With close to 200 offices in 21 countries, we emphasise local experience combined with a global knowledge-base. We constantly strive to achieve inspiring and exacting solutions that make a genuine difference to our customers, end-users and society as a whole. Ramboll works across the markets: Buildings, Transport, Environment, Energy, Oil & Gas and Management Consulting.

www.ramboll.com

Ramboll: 10,000 EXPERTS
200 OFFICES
21 COUNTRIES

BUILDINGS
Buildings form a fundamental part of our lives by shaping our communities and daily activities.

For these reasons, Ramboll’s design philosophy is to always make room for the human experience. As one of Europe’s top 3 buildings designers with decades’ of experience in the global market, we create visionary, sustainable, and award-winning buildings that improve life for users and enhance the surrounding landscape.

Read more at: www.ramboll.com/buildings

TRANSPORT
Mobility fuels economic and social development and with 50% of the world’s population now living in urban areas, efficient and reliable transport systems are essential.

To meet this need, Ramboll has been working on some of the world’s largest, most innovative infrastructure projects and is the leading consultancy in the Nordic market. We create value for transport authorities, contractors and local authorities by providing multidisciplinary technical excellence and minimising resource usage. Read more at: www.ramboll.com/transport
ENVIRONMENT

Industrial development, urbanisation, the extraction of natural resources and extreme weather events all call for sustainable and responsible environmental solutions. As the leading environmental consultancy in Northern Europe and one of the top-20 globally, Ramboll’s environment experts help customers across the water, buildings, transport, energy, oil & gas and mining markets to address these issues. We take a comprehensive view of each project to optimise every step of the process and deliver solutions that are technically resilient, environmentally sustainable, and valuable to society. Read more at: www.ramboll.com/environment

ENERGY

Security of power supplies, climate change, energy efficiency and resource scarcity are top priorities on the global agenda.

Ramboll is at the forefront of addressing these issues as the global market leader in offshore wind, waste-to-energy and district heating consulting and the leader in Scandinavia for large-scale thermal power consulting. We also have a specialist competence in designing power transmission masts and offshore wind met masts. Read more at: www.ramboll.com/energy

OIL & GAS

To make it in today’s fast paced and competitive oil and gas market, companies depend on advanced technical solutions that combine economic efficiency with stringent health, safety and environmental (HSE) safeguards during the production and distribution processes.

These elements form an integral part of Ramboll’s independent and multidisciplinary consultancy service, which covers the entire project cycle. We excel in onshore consultancy and have designed offshore structures for industry giants such as Maersk Oil, DONG Energy and Statoil since the 1970s. Read more at: www.ramboll.com/oil-gas

MANAGEMENT CONSULTING

National, regional and local authorities are responsible for issues that affect us all; from health care, education and day care to strategic planning of infrastructure and climate initiatives. Drawing on 500 management experts, Ramboll acts as a trusted partner to public administrations, creating the insights needed to make informed strategic decisions that promote stronger societies.

With unprecedented levels of competition in the global economy, Ramboll focuses on empowering private sector customers with expertise and powerful management tools. Read more at: www.ramboll.com/management-consulting
Ramboll is the leading environmental consultancy in Northern Europe and among the top-20 globally (by revenue).

We offer the full scope of the value chain: from the idea phase and strategy development to execution within water and environment projects. We provide an integrated solution with Ramboll’s other Markets to ensure the most sustainable approach and minimise environmental impact from construction projects.

We bridge the gap between the private and the public sector, and we pride ourselves on providing unbiased, independent expertise.

With a diverse customer base and a dynamic range of services, we actively contribute to setting the environmental agenda in Europe.

We enabled the building of the world’s largest gas pipeline, Nord Stream, without significant environmental impact. We are the environmental advisor to the largest ongoing infrastructure projects in the UK, including Mersey Gateway and Forth Replacement Crossing.
OUR APPROACH

WE CREATE TRULY INTEGRATED SOLUTIONS TO BENEFIT BOTH CUSTOMERS AND SOCIETY

BISHAN PARK
In Bishan-Ang Mo Kio Park (Singapore), a 2.7 km long straight concrete drainage channel has been restored into a sinuous, natural river 3.2 km long that meanders through the park. Sixty-two hectares of park space has been redesigned to accommodate the dynamic process of a river system that includes fluctuating water levels while providing maximum benefit for park users.

Creating value through integrated services
Environment’s unique value proposition is that our services are fully integrated into every Market that we work within (Buildings, Transport, Oil & Gas, Energy, and Management Consulting). We typically get involved in the early phases of a project and identify stakeholder issues and potential constraints that have to be addressed in the project development and design phases.

By covering the entire project value chain, we can take a comprehensive view of the project and thereby optimise every step of it. The knowledge and experience gained in the first phase is applied throughout the project, and we ensure proper follow-through with every project we undertake.

We know and understand regulatory frameworks both locally and globally. Because of our reputation and track record, we are able to represent the project’s interests in the planning and permitting phase without compromising environmental and social concerns. We consider stakeholder dialogue to be an important part of this process.

Customer focus
Ramboll enjoys strong customer relationships, and our biggest priority at all times is to strengthen those customer relations. We strive to understand our customers’ needs and to meet changing local and global market demands.

Our Environment customers include small and large private corporations, as well as the public sector and international finance institutions (IFS). Our largest private customers include Nord Stream and Statoil, and our public sector customers include the Nordic capital cities (Copenhagen, Stockholm, Helsinki and Oslo).
The Arctic is experiencing unprecedented interest from international companies looking to extract minerals and oil, which is fuelling the economic and social development of countries straddling the region. Ramboll is the leading consultancy in the Arctic with over 30 years’ experience designing and implementing projects, as well as 400 experts located across 21 offices in the region. Working with customers on mining, oil & gas, transport, buildings, energy, water, waste, and society-building initiatives, Ramboll combines multi-disciplinary engineering and management services with a strong commitment to delivering environmentally and socially responsible outcomes.

www.ramboll.com/resource-scarcity
WE WORK WITHIN THESE SECTORS

- CLIMATE CHANGE AND URBAN WATER SOLUTIONS
- ESIA AND SUSTAINABLE DEVELOPMENT
- ENVIRONMENTAL MANAGEMENT AND COMPLIANCE
- PLANNING AND DESIGN OF WATER AND WASTE WATER INFRASTRUCTURE
- RESOURCE SCARCITY AND WASTE MANAGEMENT SOLUTIONS

For more information on our services, please visit ramboll.com/sectors/environment
HOW WE WORK

WE COMBINE LOCAL EXPERIENCE WITH GLOBAL KNOWLEDGE AND EXPERTISE

BISHAN PARK
Making room for nature and recreation in 62 hectares of parkland, Bishan-Ang Mo Kio Park, Singapore. (Image top)

RUBY MINE, GREENLAND
Environmental study and impact assessment as part of the permitting process for a proposed ruby mine in western Greenland. (Image bottom)

Water sector
In the water sector, we have our own technical design teams that are responsible for the entire project lifecycle.

Environmentally sustainable and technically resilient solutions
Ramboll acts as environmental expert advisers on large construction and infrastructure projects.

As an equal partner on the technical development of any project, we work closely with the civil engineers to develop projects that are technically resilient, environmentally sustainable, and valuable to society.

The combination of heavy rainfalls, flooding, and rapid urbanisation puts a big strain on cities’ infrastructure and water resources.

To safeguard clean drinking water and create attractive living areas, we carry out climate adaptation plans, modernisation of water infrastructures, and diversion of water to the right places, simultaneously making cities more blue and green.
WORLD CLASS PROJECTS

HANNUKAINEN MINE, FINLAND
To facilitate production of iron concentrate, gold and copper, Ramboll is conducting environmental impact assessment reporting, and land use planning for the whole life cycle of the mine. By employing Multi-Criteria Decision Analysis, Ramboll has been able to undertake an integrated assessment on a complex range of data, which revealed the need to identify an alternative location for operations.

JEDDAH MASTER PLAN, SAUDI ARABIA
Ramboll is developing an Environment and Social Master Plan to accommodate rapid urbanisation in Saudi Arabia’s second largest city. The goal is for Jeddah to become a model city of environmental and social improvement by 2030, and thus significantly improve the inhabitants living conditions. Ramboll’s report provides a baseline of the current conditions, but also includes information on corrective actions and future initiatives to achieve sustainable development - including cost/benefit analyses of various alternatives.
WORLD CLASS PROJECTS

NORD STREAM PIPELINE, BALTIC SEA
The Nord Stream pipeline is the world’s largest gas pipeline and was built to supply natural gas to Europe from Russia. It transports up to 55 billion m³ of gas per year, which is sufficient to supply more than 26 million households. Due to Ramboll’s early-stage environmental planning and input into the construction design, the pipeline was built without significant environmental impact. Furthermore, Ramboll is preparing quarterly and annual monitoring reports to the authorities in Denmark, Sweden and Finland concerning eventual environmental impacts in the operations phase. (Image top)

COPENHAGEN CLOUDBURST MITIGATION PLAN, DENMARK
Ramboll is working with local authorities to establish waterways that can transport storm water into ports or lakes while creating an attractive living environment. Ramboll provided the technical expertise, socio-economic calculations, architectural and engineering design, traffic solutions, and stakeholder engagement for this multidisciplinary project. The recreational solutions above ground will save approximately 134 million EUR compared to the construction of an underground storm water pipe. (Image bottom)

MERSEY GATEWAY, UK
Six-lane cable-stayed tolled bridge between Runcorn and Widnes, UK: As lead technical consultant, Ramboll has carried out the engineering design, construction methods investigation, and environmental and transport assessments and contaminated land clean up. In particular, Ramboll carried out a number of value engineering exercises over the life of the project including an exercise to reduce the scheme costs by £30m. (Image right)