RAMBOLL IN SINGAPORE

LOCAL PARTNER, GLOBAL EXPERTISE

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GLOBAL CHALLENGES REQUIRE HOLISTIC SOLUTIONS

The world today faces far-reaching challenges that affect us all. Complex megatrends such as urbanisation, climate change, and resource scarcity require holistic solutions. As a global engineering, design and consultancy provider, Ramboll is dedicated to working with clients to meet these challenges by combining local insights with the multidisciplinary expertise of 16,000 professionals over six continents. We continually strive to be at the forefront of delivering innovative, inspiring and sustainable solutions that set new standards and maximise value for our clients and society as a whole.

Ramboll today holds a leading position in the Nordic market and serves clients globally through a network of 300 offices across 35 countries.
Ramboll’s ambition is to be the preferred go-to Sustainable Society Consultant. In Singapore, we are committed to driving sustainable, greener and smarter growth in Southeast Asia. Ramboll’s holistic approach to addressing global challenges is rooted in our integrated multidisciplinary base. Our team is ready to provide cutting-edge solutions to solve our clients’ and society’s greatest challenges.

Ramboll in Singapore has grown out of two strategic acquisitions. The creative design unit Ramboll Studio Dreiseitl offers unparalleled blue-green solutions, helping transform Singapore into a resilient home for its people. Secondly, the acquisition of ENVIRON in 2015 added a strong base of environmental and health expertise in Southeast Asia, where we have been working for the past 20 years.

Over the years, we have grown our services, and today Ramboll also offers cutting-edge expertise within buildings and energy from our Singapore base.

Our unique legacy and a combined pool of expertise, together with Ramboll’s 70 years of experience in fostering sustainable development is unprecedented. We hold a world-class position within wind and waste-to-energy, high-rise buildings, smart buildings, smart mobility, landscape architecture, master planning, water engineering, environmental, safety and health science services.

We deliver holistic solutions surpassing clients’ expectations and find value in working through partnerships.
ENABLING SUSTAINABLE SOCIETIES

Ramboll is committed to meeting today’s demands without jeopardising the needs of future generations. We achieve this through a holistic and balanced approach that combines specialist knowledge of management and strategy with world-class technical and scientific competences. This enables us to set the public agenda on issues affecting societal development and provide expert consultancy services to ensure long term value to both our clients and society as a whole.

OUR COMMITMENT TO SDGS

The 17 Sustainable Development Goals is Ramboll’s yardstick for its sustainability strategy. While we have strong multi-disciplinary and cross-market synergies, we act on four SDGs (SDG 9, 11, 12 and 13) in almost everything we do. Our commitment to the SDGs is part of our Corporate Responsibility as well as key to our approach in doing business.

70 YEARS OF SUSTAINABLE DEVELOPMENT

Passion for engineering and contributing to society guided Ramboll’s founders B.J. Ramboll and J.G. Hanemann, when they established the company in 1945. While Ramboll has evolved into a global multidisciplinary consultancy, these values and our Nordic roots remain cornerstones of the company today.

Our mission is to create sustainable societies where people and nature flourish.

“Being decent and proper does not only concern whether your tie is in place when doing business. It is about treating other people and society well in long-term perspective”

B.J. Ramboll
CLIMATE CHANGE AND SUSTAINABLE INVESTMENTS

Inspired by the scale of Copenhagen’s blue-green infrastructure, The New York City Department of Environmental Protection (NYCDEP) selected Ramboll to conduct a comprehensive study of how investments in climate adaptation and cloudburst management can pay off. New York City’s main objective is to prevent pollution in the canals and waterways where several marinas and other recreational areas are located.

In Asia, Ramboll has conducted a study for the Asian Development Bank to enable efficient investments in climate adaptation and resilience. The study gives an overview of investment options for increasing resilience and reducing carbon emissions in large cities in the Asia Pacific region focusing on people and health. The project draws on Ramboll experts within water, environment & health, energy, transport and management consulting.

PROMOTING URBAN GREEN GROWTH – FROM NORDIC TO GLOBAL

According to the World Bank, two thirds of the world’s population will be city dwellers by 2050 and the global middle class is expected to grow by three billion people over the next two decades. This has led to a focus on creating liveable cityscapes in which people and businesses can thrive, communities can grow, and the environment can flourish. Ramboll has played a central role in providing strategic guidance and developing the building, transport, energy and water infrastructure for the Nordic capitals, which are internationally recognised for sustainable development. Today we work with cities worldwide to create attractive and well-connected urban environments that enable green growth and improved quality of life.
By providing an integrated multidisciplinary service across our markets, Ramboll offers world class technical and scientific capabilities, creative thinking, and service excellence. This ensures that clients receive fully optimised solutions and maximum value on investments.
WORLD CLASS TUNNEL SOLUTIONS
WATER

WATERING DOWN SILO APPROACHES

Ramboll considers water as one of the greatest engineering challenges of the 21st century. Ramboll’s experts address global water and climate challenges by working across the entire water cycle from water resources and supply, processing and treatment, to sewerage and discharge.

To date, we have completed over nine ABC (Active, Beautiful and Clean) Waters certified sites in Singapore and appointed as the chief planner for the fourth and latest phase of ABC Waters projects.

Our water expertise gives a perfect platform for combining landscape architecture, urban design, urban hydrology, civil engineering and ecology in Southeast Asia as well as globally.

“We take pride in designing and delivering innovative award winning projects that integrates blue and green infrastructure seamlessly into the urban fabric for the benefit of people and nature.”

Country Market Director
– Leonard Ng

WHAT WE DO

Four main areas of services:
• Climate adaptation & landscape architecture
• Water & wastewater treatment
• Water resource management
• Water & wastewater networks

Our capabilities include:
• Urban river restoration
• Flood management
• Watershed master plan
• Water recycling infrastructures
• Water playgrounds
• Bioengineering
• Biophilic design

42

Number of water-related awards won by Ramboll in the last 5 years
Ramboll consider water as one of the greatest engineering challenges of the 21st century. Ramboll experts address global water and climate challenges by working across the entire water cycle from water resources and supply, processing and treatment, to sewerage and discharge. To date, we have completed over 9 ABC (Active, Beautiful and Clean) Waters certified sites in Singapore and were appointed as the chief planner for the fourth and latest phase of ABC Waters projects.

Our water expertise gives a perfect platform for combining Landscape Architecture, Urban Design, Urban Hydrology, Civil Engineering and Ecology in Southeast Asia as well as globally.

01 Bishan-Ang Mo Kio Park, Singapore
As part of a much-needed park upgrade and plans to improve the capacity of the Kallang channel along the edge of the park, a 2.7 km long concrete channel was restored into a sinuous, natural river. It runs through 62 hectares of park space, which has been tastefully redesigned to accommodate the dynamic process of a river system while creating new spaces for the community to enjoy.

02 Waterway Ridges at Punggol, Singapore
This was the first large-scale integration of ABC Waters design features in a residential development in Singapore. The features convey, detain and cleanse rainwater runoff to mitigate the hydrological and water quality impacts of urbanisation, enhance aesthetic and biodiversity, and serve as community nodes or double up as other functional space.

03 Effective water management at production facilities worldwide
We provide reliable, cost-effective industrial wastewater operations support to various facilities around the world. Our experts offer on-site assessment of effluent treatment plant (ETP) operations permitting to meet salt and toxicity limits, on-site troubleshooting of ETP operations for organics and nitrate removal, and on-site support for ETP biological treatment operations. We also conduct site visits, data review, inception and feasibility studies to comply with new ocean discharge limits.
ENVIRONMENT & HEALTH

PROTECTING OUR WELL-BEING

A leading global environmental and health consultancy, we maintain a science-first approach to helping clients resolve their most challenging environmental, health and social issues. Our culture of excellence, innovation and client service has earned us the respect and loyalty of private and public clients around the world.

Throughout South East Asia, we are highly recognised for tailoring solutions to our client’s specific needs ensuring that our strategic advice is objective and defensible. We are committed to bringing to each assignment the right mix of sound science, strategic thinking, good judgement, and clear communication to help our clients achieve the most efficient and cost-effective solutions to their problems. Our clients include industrial companies, government agencies, legal firms, private equity firms, investment banks and real estate companies.

“We have been a trusted partner and advisor to our clients for 20 years in South East Asia. We intend to remain at the forefront in assisting our clients in their most challenging environmental, safety and health challenges and to help them navigate the increasing complex regulatory requirements across the region.”

Environment & Health Regional Director
– Juliana Ding

WHAT WE DO

- Air quality
- Compliance assurance and performance
- Ecological services
- Environmental and community risk
- Impact assessment
- Occupational health & safety
- Process safety
- Product safety and stewardship
- Resource and waste management
- Site solutions
- Sustainability
- Transactional due diligence

Ramboll is ranked in the Top 10 environmental consultancies globally
04 Addressing Air Quality, Hong Kong
Rapid urbanisation and explosive economic growth in the Pearl River Delta region required an upgrade of the air modelling system that allows the Hong Kong Environmental Protection Department (EPD) to study the complex relationships among factors that influence atmospheric air quality. We developed a comprehensive atmospheric modelling system for the EPD to analyse emissions, meteorological and air quality data and to forecast regional air quality.

05 Independent assurance statements, Singapore
A power company based in Singapore engaged Ramboll to review sustainability performance information covering environmental, social and governance aspects in its Corporate Accountability Report. The purpose being to provide an independent 3rd party assurance on such information, and transparently include findings and observations in its report.

EIS for Rail Project, Singapore
To facilitate the development of a rail modification project, Ramboll conducted a comprehensive Environmental Impact Study including detailed noise impact assessment and stakeholder engagement. The project was located adjacent to a popular recreational area with significant biodiversity value.
We have designed inspiring, efficient, and award-winning buildings for several decades. Our design philosophy is to always consider the human experience and we challenge assumptions to create the most practical and economic designs. We are leaders in Building Information Modelling (BIM), and combine this expertise with advanced analytical techniques to optimise building designs before construction starts.

In our Singapore office, we have made several significant wins in the field of SMART Buildings – ready to advise on the integration of new technology with the architecture and traditional building disciplines.

“At Ramboll, we have developed a specialist team to explore ways that can lead to new design directions and value for our projects.”

Buildings Director
– Andre Soh

Ramboll is ranked 9th in top 10 global buildings designers (ENR 2017)
06 SMART Buildings, Singapore
The Internet of Things (IoT) and SMART technologies are changing the way we work and live at an incredible rate, in what is now dubbed as “The Fourth Industrial Revolution”. With built asset design life between 50-100 years, it is crucial that developments are designed with the ability to evolve over time, to retain their competitiveness and relevance. In response to this challenge, Ramboll has developed the “Buildings as a Platform” approach. We help clients create a base operating platform, consisting of sensor networks, SMART building systems and technologies, which are underpinned by a robust backbone. These are then integrated through the Building Platform where they are analysed and optimised to enhance user experience, and maximise operational efficiency, in both a predictive, and reactive manner.

Integrating these novel digital solutions with architecture can also provide improved comfort and productivity for the building users and create new experiences and opportunities for collaboration.

07 Four Seasons, Jakarta, Indonesia
Jakarta’s luxury Four Seasons hotel has undergone major redevelopment with the integration of two new towers: a 55 storey, 244m high hotel, and a 30 storey, 132m high office tower. Ramboll’s engineering solution for the hotel aimed to minimise costly retrofits whilst the design of the office tower focused on achieving a GREENMARK ‘Gold+’ Award by incorporating low energy technologies. Jakarta’s vulnerability to seismic activity and flooding were considered through a comprehensive geotechnical investigation of the site.

08 Tate Modern, United Kingdom
This landmark extension will increase Tate Modern’s display area by 60% to cater for the increasing number of visitors. Ramboll developed the engineering design to accommodate the building’s structural specifications and realise the architect’s visions.
PLANNING & URBAN DESIGN

CREATING CLIMATE ADAPTIVE AND RESILIENT CITIES

There are no ‘one size fits all’ solutions to creating liveability since differences in physical conditions, culture, and priorities necessitate an approach that is tailored to the local context. The networking of a city public space in Singapore as interactive, ecological infrastructure – publicly visible, technically simple and beautiful – has been Ramboll’s basis for a future-oriented approach here.

In Singapore, we have a creative team of landscape architects that have earned our status of dominating the blue-green footprint on the public space to the benefit of citizens’ improved quality of life.

WHAT WE DO

- Parks
- Streetscapes and plazas
- Master planning
- Urban regeneration
- Placemaking
- Blue-green infrastructures
- Feasibility studies
- Climate adaptation plan

50+

President’s Design Award
American Society of Landscape Architects Award
Singapore Institute of Landscape Architects Award
International Federation of Landscape Architecture Award
World Architecture Festival Award
Skyrise Greenery Award
09 Mandai Nature Safari Park, Singapore
Situated north of the heart of Singapore, the Mandai Nature Safari development is a rejuvenated wildlife and nature attraction with a critical strategy that involves a seamless integration of the surrounding nature reserve through the creation of eco-corridors, wildlife bridges and habitat enhancement.

10 Kampung Admiralty, Singapore
Singapore’s first retirement village which has transformed a compact 2.2 acre site into a dynamic community where integrated social and ecological spaces enable an aging population to live actively.

The landscape is designed as layers of green and blue infrastructure woven into the building to connect residents and the greater Admiralty neighbourhood to the historical “Kampung” village spirit within today’s highly densified urban context.

11 Jurong Lake Garden West, Singapore
Slated for completion in 2019, the public will be able to see a restored swamp forest and wetlands, a nature-themed play area, allotment gardens, lifestyle and sports facilities, and F&B options at Jurong Lake Garden West. Within the design, careful composition of plant groupings with consideration of views to the surroundings, along with targeted visual relationships between birdlife zone and the spatial experience of park visitors.
ENERGY

POWERING GREENER AND CLEANER SOLUTIONS

Ramboll is at the forefront of addressing the ongoing green transition and offers a holistic approach to energy that supports the sector on the journey towards more sustainable solutions. We work on energy solutions that are future proof, cost conscious and practical.

We thus know how to apply global concepts in a local context as well as customise and tailor technical solutions exactly to our clients’ needs. While the full array of energy services is available from our Singapore operations, clients in this region are principally interested in our services within waste-to-energy, offshore wind and biomass power plants.

“We put our clients first – in the way we think and the way we work, always focusing on how we can support our clients in achieving their goals in the best way possible. Our unique mix of local and global experts enables us to solve all challenges relating to our clients’ projects.”

Energy Head of Business Development
- Carsten Schneider

115

New units and retrofits in 45 countries. Ramboll is known as one of the world’s leading waste-to-energy consultants.
More than 60% of the world’s offshore wind turbine foundations are engineered by Ramboll

Number of major power plants designed by Ramboll

12 Integrated Waste Management Facility, Singapore
Ramboll is part of a multi-disciplinary consultancy technical team for the planning, design and construction management of one of the world’s largest waste-to-energy facilities, which will enable Singapore reap the benefits of energy and resource recovery maximisation for years to come.

13 SPIC Binhai North H2 Offshore Wind Farm, China
Wind and solar power is increasingly becoming a part of China’s future energy supply, and the construction of offshore wind is on the rise. Ramboll will, as the first non-Chinese company, be designing one of the country’s largest wind farms, including the 100 steel turbine foundations and the 400 MW substation. The project is a continuation of phase 1, where Ramboll was the lead designer of the turbine foundations.

14 High-efficiency Power Plant, Bangladesh
Large increases in power demand in Bangladesh result in the need for reliable high-efficiency solutions to permit development whilst limiting impacts. Ramboll is the Owner’s Engineer to Orion, ensuring technical coherence and an optimised plant design comprising the highest possible overall efficiency of two power plants in Dhaka and Khulna.
TRANSPORT

CONNECTING COMMUNITIES AND ECONOMIES

Mobility fuels economic and social development and with two thirds of the world’s population predicted to live in cities by 2050, efficient transport systems are an essential component of urban liveability. We work on some of the world’s biggest and most cutting-edge infrastructure projects. We combine advanced technical competences with resource-minimising design to identify the best possible solution at the lowest cost.

Ramboll’s development of a large-scale transport plan, Gateway Asia 2030, is a thriving example of a multidisciplinary gateway project that will help unlock Manila’s and the Philippines’ strong economic potential while also contributing to new, sustainable developments in the densely populated city.

2,810

Number of Ramboll transport specialists worldwide

WHAT WE DO

- Aviation
- Major crossings
- Rail engineering
- Smart mobility
- Master planning and urban development
- Transport planning
- Traffic engineering and traffic safety
- Urban civil works
15 Gateway Asia 2030, Philippines
Ramboll is developing a large-scale transport plan for Manila Bay that is focused on promoting growth and solving congestion issues in the world's most densely populated city. The plan, which has been initiated by private developer, All-Asia Resources and Reclamation Corporation, will see the creation of interconnected air and seaport facilities with a rapid metro link to central Manila.

16 Doha Metro, Qatar
The Green Line forms part of Doha’s new metro system, which is a key delivery for the 2022 FIFA World Cup. Ramboll is the Design Verification Engineer for the project, which brings together experts from the Middle East, the UK and Denmark, and draws on our competences in geotechnics, shoring/temporary structures, tunnels, mechanical, electrical and plumbing (MEP), and structures. Image: Qatar Railways Company.

17 Fehmarn Belt Tunnel Link, Denmark/Germany
The world’s longest road and rail tunnel beneath the Fehmarn Strait will realise the vision of a permanent, close and direct link between Scandinavia and Central Europe. Ramboll’s design solution challenges existing tunnel building standards and will significantly reduce travel times whilst creating new opportunities for freight transport. Image: Femern A/S
Ramboll is committed to continually develop and combine knowledge and technology in new and different ways. As an internationally recognised thought leader and expert practitioner in each of the markets in which we operate, we provide cutting edge solutions to solve our clients’ and society’s largest challenges.

CHICAGO LAKESIDE, USA

Ramboll has produced the design concept for sustainable energy, water management and waste management to transform the 600-acre Chicago Lakeside city district into a model community based on 21st century infrastructure and technologies. The concept will reduce the use of fossil energy by 90%, potable water by 60% and landfill to 1% with 90% of stormwater infiltrated and directed to Lake Michigan.
LOCAL PARTNER, GLOBAL EXPERTISE

16,000 experts
300 offices
35 countries

Ramboll provides engineering and design consultancy services across seven markets:

Buildings
Transport
Planning & Urban Design
Water
Environment & Health
Energy
Management Consulting