



Energy Transition Consulting

Ramboll Management Consulting

RAMBOLL

Bright ideas.
Sustainable change.

Who we are

About Ramboll

We are an independent engineering, architecture, and consultancy company founded in Denmark in 1945.

Across the world, Ramboll combines local experience with global knowledgebase to create sustainable businesses and societies.

We combine insights with the power to drive positive change to our clients, in the form of ideas that can be realized and implemented.

We call it: [Bright ideas](#). [Sustainable change](#).



Global offices in
35 countries



Employees



Global revenue, in 2020
across all markets

We work in multidisciplinary teams
across seven markets:



Buildings



Water



Energy



Architecture
& Landscape



Environment
& Health



Management
Consulting



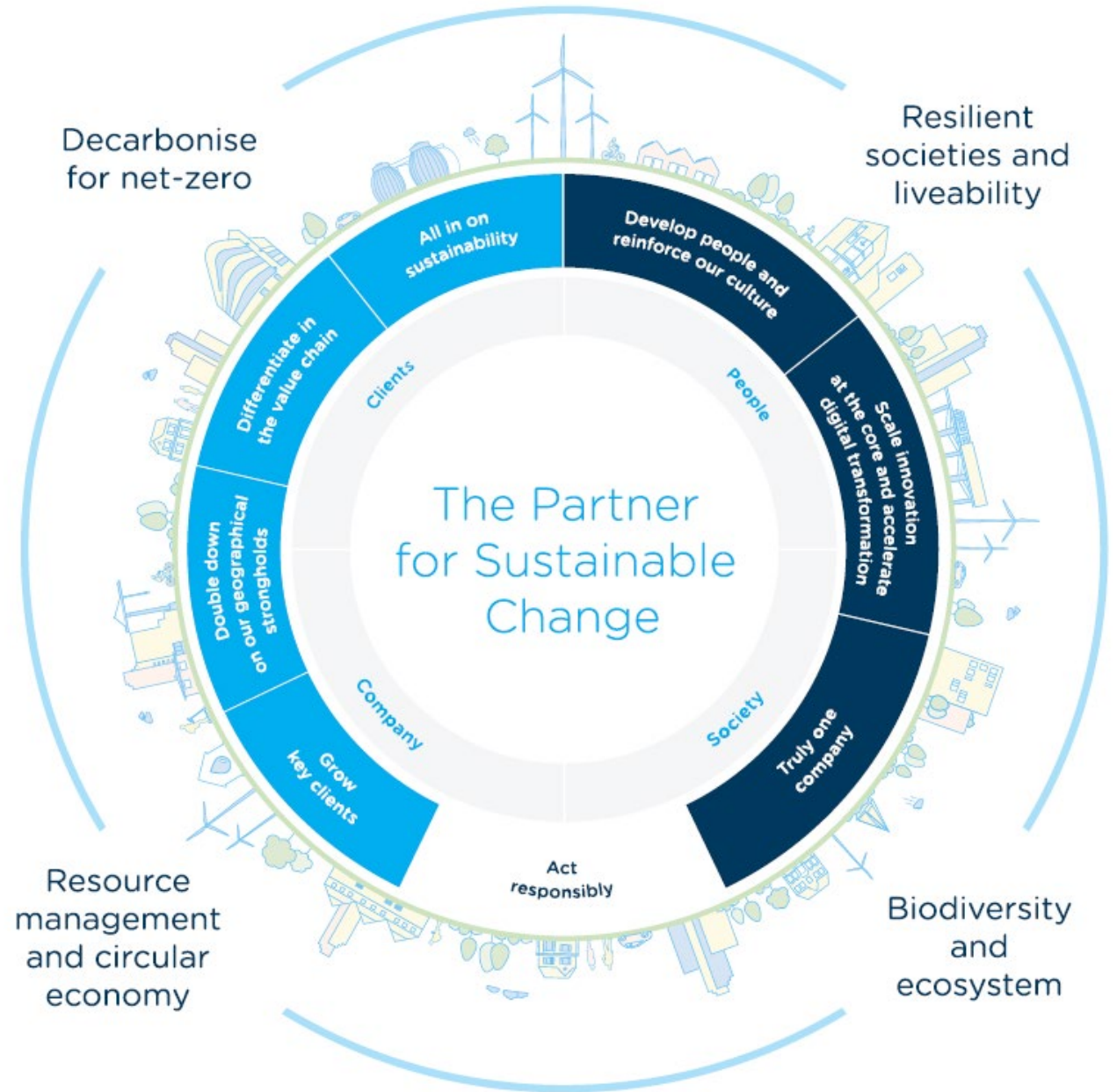
Transport

The Partner for Sustainable Change

Ramboll is the trusted partner for our clients, creating value by guiding them successfully through sustainable change, while understanding specific challenges and opportunities.

Our strategy for 2022-25 - Partner for Sustainable Change - supports this ambition and focuses on four sustainability themes where the needs of clients, stakeholders and society intersect with our expertise.

To back up that strategy, Ramboll is an active member in the global corporate sustainability community, participating in key frameworks such as the Science Based Targets Initiative to implement its own corporate sustainability ambitions.



Our experience spans across value chains, comprising commercial, sustainability, and technology aspects



Commercial & ESG aspects

We possess a comprehensive commercial understanding of energy markets, including trends, drivers, challenges, business models, and operational excellence requirements.

Our team of commercial and ESG experts helps clients navigate this complexity, providing insights into the global and local regulatory environment and its commercial project impact.



Across the value chain

We engage comprehensively across the entire value chain of diverse energy sectors, spanning the upstream phases, processing, transport solutions, and extending into the offtake markets.

Our in-depth understanding of key stakeholders equips us with the expertise to expertly plan, procure, and efficiently manage the implementation and operations.



In-depth technology insight

Our consultants combine deep the commercial and sustainability aspects with a profound understanding of technology in the evolving green transition landscape.

We integrate our technological expertise with our green transition insights to deliver future-ready and precise recommendations. Ensuring comprehensive support for our clients at every stage.



Global & local expertise

Ramboll combines top-tier global expertise with a robust network of local subject matter experts, enhancing our ability to deliver unparalleled insights and solutions.

This unique blend of global and local expertise empowers us to offer comprehensive, industry-specific recommendations, based on international best practices and finely tuned to our clients' objectives.

We pride ourselves in being a leading energy transition consultant enabled by Ramboll's world class engineering expertise

Our approach provides clients access to the Ramboll engineering platform which consists of **+1500 energy experts** within:



Energy efficiency & optimisation

Energy efficiency benefits the green transition economically and environmentally. To support this, we have built strong capabilities in building, processes, and new technologies, as well as an increased focus on carbon footprint optimization.



Renewable Energy

We have an in-depth understanding of technologies like wind, solar, heat pumps, and geothermal energy, along with strategic and commercial insight into the energy sector and related instruments such as PPAs, RECs, and GOs.



Green Fuels

Achieving net-zero targets in-depth insight and know-how of strategic and commercial possibilities, as well as market and technology knowledge of P2X, CCUS, Hydrogen, Ammonia, Methanol, LNG, Biogas, and Waste2X.



Infrastructure & Systems Integration

Green infrastructure for renewable energy and green fuels is essential. Therefore, we provide sector knowledge of technology, regulation, and off-taker landscape, and have a holistic understanding of the business model of the producer, infrastructure owner, and off-taker.



Carbon capture, storage & utilisation

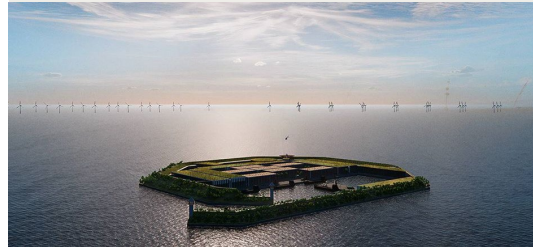
Decarbonisation is all about carbon. Ramboll is at the forefront of the adoption of CCUS infrastructure, working across the value chain of capture, transport, utilization and storage. We pay special attention to local sector-specific conditions and regulation.

We deliver transformational results to clients across the sector

In addition to our core management consulting capabilities, our consultants bring extensive expertise across multiple areas of the value chain, helping our clients navigate the increasing complexity of policy, regulation, and technology development within the energy space.

We provide actionable insights bolstered by deep knowledge of developing energy transition domains such as renewable energy, infrastructure, green fuels, carbon capture, utilization and storage, etc.

Infrastructure & Utilities



Energinet

EU taxonomy and sustainability in large energy infrastructure projects

Industry & Manufacturing



Confidential

Decarbonisation strategy technology screening for pulp and paper

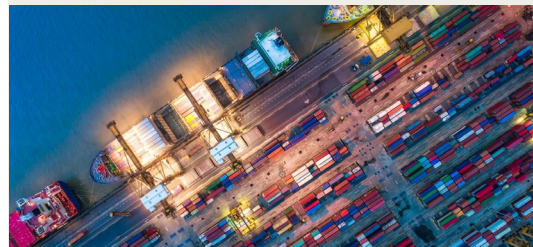
Policy Makers & Regulators



Nordic Council of Ministers

Development of 17 policy recommendations for balancing the Energy Trilemma

Transport & Logistics



Port of Ronne

Bunker hub development, P2X production for shipping

Property & Buildings



C40

24/7 Carbon free Energy and PPA structure

Investors



AIP Management

Market Assessment and Investment strategy

Strategic focus for delivering on the green energy transition

Key domains in the energy sector

Energy Efficiency & Optimisation



Renewable Energy



Green Fuels



Infrastructure & System Integration



Carbon Capture, Utilization and Storage



Management Consulting Services

- 1 Policy, Regulation
- 2 Sustainability & circularity & ESG frameworks
- 3 Strategy & Market Assessment
- 4 Financial performance, business cases, & social economics
- 5 Procurement & Contract Management
- 6 Digitalisation & Data
- 7 Transformation & Strategy Implementation
- 8 Transaction Merger & Acquisition



Management Consulting Services

Driving the energy transition from strategy
through implementation

Policy and Regulatory Analysis

The strong focus on climate and the ambition for achieving net-zero entails increasing complexity in the energy space from policy and regulation development to new and innovative technologies. Where the ability to successfully navigate the complexity of the energy transition is key.

Regulatory Assessment

- **Regulatory analyses:** Analysis and review of the current and future political landscape. Identifying relevant regulations and forecasting the future changes.
- **Regulatory gap assessment:** comparing regulations to best practices or across geographies to identify.

Policy Development

- **Policy Development and implementation:** Scenario analysis, Risk & sensitivity analysis, Policy design, pre- & full-service implementation support, & policy impact evaluation.
- **Policy Impact Assessment:** determine the potential environmental and social impacts of projects or policies, ensuring that impacts are distributed fairly.
- **Stakeholder Mapping & Engagement:** Identifying key stakeholders, creating engagement strategies, etc.

Energy Trilemma

- **Strategic energy initiatives:** devising long-term strategies that align with energy security goals while balancing the trilemma of security, affordability & sustainability ensuring minimal disruption to communities and workers.
- **Environmental Justice/Just Transition Assessment:** Analysing the impact on communities, workers, and marginalized groups affected by transitions in industries, ensuring fairness and equity in the process.



Nordic Security of Supply, Energy Prices and the Just Transition

The project focused on a just transition of the energy supply, and developing recommendations to enable stronger collaboration, thus ensuring security and a sustainable energy system.

ESG and Sustainability Strategy

It is key to integrate sustainability into the way that new technologies are designed, financed, procured, manufactured, installed, and operated across the value chain. This is largely driven by new and ambitious sustainability regulation and policies.

Climate Finance & ESG Frameworks

- **Decarbonization frameworks** (SBTI, net-zero goals): framework selection and readiness assessment.
- **SFDR:** including gap assessment, compliance document production, handbooks, and training.
- **EU taxonomy:** Eligibility to alignment and improvement, from strategic support to full taxonomy integration.
- **CSRD:** Double materiality assessments. preparation for reporting, gap assessments and stakeholder dialog support.
- **TCFD/TNFD:** Supporting companies developing approaches and reports for climate and nature business risk.

Sustainability Strategies

- **Decarbonization:** Developing action plans and roadmaps for net-zero goals, determining improvement areas, developing tailored strategies & targets.
- **Circularity:** integrating circular models into projects from the design phase through end of life.
- **Adaptation and resilience:** With long asset lifetimes, technology owners need to understand climate risks and take measures increasing adaptivity and resilience to climate change.
- **Biodiversity/Nature impact and strategy assessment:** advising companies on nature impact assessment across the value chain and strategy development.

Responsible Business Conduct

- **Minimum social safeguards:** Ensuring projects are designed and operated in line with international standards, reducing impact to people and communities throughout the value chain.
- **Human rights due diligence:** companies throughout the sector must engage and ensure that their supply chain engages in responsible business conduct and attention to human rights.



Circularity & RBC bid strategy, offshore wind developer

Supporting the bidding strategy of an offshore wind developer, where circularity and responsible business conduct were competitive tender criteria deciding the outcome of an offshore site developer competition.

Strategy & Market Assessment

We offer a strong foundation for successful decision-making, assisting clients in developing energy transition strategies, roadmaps, implementation, and standalone market assessments. Our goal is to equip clients to navigate today's complex, evolving markets effectively.

Market Assessment

- **Market analysis:** Identification and assessing the most suitable market segments, by estimating industry size and growth trends.
- **Technology assessment:** Identifying and evaluation suitability of new and existing technologies, assessing the maturity level, CAPEX & OPEX.
- **Competitive benchmarking:** Identification, assessment and evaluation of key market players and of the regional or global competitive landscape.
- **Market sizing:** Assessment and quantification of projected market share, analyses of consumer preferences and changing market behaviour.

Investment Strategy

- **Target selection:** Navigate the intricate world of sustainable investing: With a highly personalized approach, tailoring investment strategies to align seamlessly with goals, values, and stakeholder pressures, all while staying compliant with evolving regulations.
- **Financial feasibility studies:** The comprehensive assessment encompasses a thorough review of capital structure, funding sources, and investment returns to gauge the overall financial feasibility of the business.
- **Opportunity and risk analysis:** Guiding investors on trends, financing gaps, and coming opportunities across the sector.

Energy Strategy Development

- **Purpose Formulation:** Crafting a clear mission, vision, and values aligned with the Client's goals collaboratively.
- **Baseline Assessment & Measurement:** Understanding the current state and tracking progress of strategies.
- **Economic & Financial Appraisal:** In-depth economic and financial analysis incl. cost and resource allocation, financial forecast assessments etc.
- **Materiality Assessment:** Identifying and prioritizing significant sustainability issues, guiding strategic decisions.



Commercial Assessment of Investment Opportunities in Sustainable Fuels

Identifying the most attractive investment opportunities within the sustainable fuel sphere, including hydrogen, biogas, ammonia, alcohols and raw materials. Developing clear recommending how to address them.

Financial Performance & Social Economics

Traditional financial metrics may not capture the long-term and diverse societal impacts of energy transition projects and initiatives. Balancing profitability with the broader policy goals requires developing novel evaluation frameworks that incorporate both economic and social indicators.

Business Case Development

- **Financial modelling:** development of a business case that is robust, transparent, and based on sound financial and economic principles.
- **Triple bottom line analysis:** evaluation of financial, social, and environmental impacts in tandem to ensure sustainable and impactful clean energy investments that consider different stakeholder perspectives, regulatory requirements, and market trends.

Forecasting & Scenario Analysis

- **Economic Forecasting:** aggregation of industry energy data across sectors to develop tailored forecasts and reduce decision-making uncertainty for confident investment strategy.
- **Scenario analysis:** analysis of the probability of various future developments, outlining the underlying assumptions and implications. This approach offers strategic insights to guide decision-making amid uncertainties in clean energy markets.

Social & Economic Impacts

- **Social value & impact assessment:** analysis of community issues, mapping of stakeholders, and development of recommendations on intervention points and policies for positive community impact.
- **Natural capital accounting & ecosystems valuation:** integration of the value of ecosystem services into accounting and reporting, offering a comprehensive approach to measure environmental impacts and guide sustainable business practices.



Business case development for the full CCUS value chain

Developing a detailed business case to assist in the prioritization of strategic and commercial elements of project execution and risk management.

Procurement & Contract Management

The balancing act of clean, affordable, and reliable energy is achieved through infrastructure & system integration. Build-out of next generation energy infrastructure requires holistic planning and consideration of project- and system-level influences and impacts

Procurement Strategy

- **Energy Project/Attribute Tendering:** Finding the right contractor or supplier will usually rely on healthy competition. We support this through, e.g., establishing the right long list, running RFP's and evaluating bids.
- **Contracting:** Once the right contractor or supplier is selected, it is important to have right contract in place to support the collaboration. We support in the contract drafting and contract negotiation to ensure an optimal contract for the purpose.

Contract Management

- **Delivery and obligation management:** Management of the D&O process within the project by ensuring all parties D&O compliance as specified in the contract.
- **Variation order and claims management:** Managing variation orders and claims efficiently and in compliance with the contract to protect the contract value.
- **General contract advise:** Operational and tactical advisory on contractual and legal matters to project management, ensuring that contractual and legal advice is easily available at project management level.

Legal Services

- **EU Procurement Law:** We assist on the buy-side with running EU Procurement Law based tender processes, sell-side in giving bids based and assist afterwards in cases of complaints.
- **Contract drafting:** We assist with a wide range of contracts, e.g., construction contracts based on international standard such as FIDIC in the CAPEX phase or power purchase agreement in the OPEX phase.
- **Dispute resolution:** Our legal experts guide clients through complex dispute resolution processes.



Sourcing and Contracting Analysis for Hydrogen Infrastructure

In preparation for the transmission of future hydrogen in Denmark, this project focused on gathering market input and general advisory to the Danish TSO for the establishment of the hydrogen infra-structure, including the planned link to Germany.

Digitalisation & Data

Sustaining competitive advantage through digitalisation and data driven organizational transformation. Digitalisation could reduce emissions by up to 20% by 2050 in high-emitting sectors. The biggest potential across all sectors lie in the Energy Sector.

Digitalisation

- **Digital Strategy** to help our clients develop strategies to realise the potential offered by the digital world.
- **Digital Operating Model** to ensure the right digital capabilities and balance interfaces between internal and external partners and processes.
- **Digital Sustainability** to help our clients develop the initiatives that utilises digitalisation as a lever for sustainability; to use technology for being more sustainable; and to use technology more sustainably.

Data

- **Architecture & Platforms** to help our clients develop their business and IT architecture and thus improve their performance and sharpen their competitive edge.
- **Digital & Data Architecture** for ESG reporting to support alignment to EU Taxonomy and CSRD/ESRS requirements.
- **Cyber & Information Security Assessment and Transformation** to design processes and organisation to protect critical infrastructure and comply to the NIS2 directive.

Execution & Implementation

- **Program & Project Management** to realize business benefits of changes to processes, digital services and products.
- **Sustainable IT Procurement & Contracts** to help our clients use IT procurement as a catalyst to drive sustainable change from the first preliminary analysis through tendering processes to effective vendor collaboration.
- **Strategic Assessment, Sourcing & Implementation of Systems and Technologies** to support the client goals and processes, e.g. ESG systems, smart metering, charging infrastructure and EV.



BIM maturation program in Orsted focusing on offshore wind

Digital transformation program with purpose of utilizing digitalization across the value chain in offshore wind. Ramboll assisted with business case, analysis, program management, digital & data architecture and BIM.

Transformation & Strategy Implementation

Holistic approaches for organizational, digital and sustainable transformation to ensure future viability and effective resource management across and after strategy implementation. Well-versed in classical and agile transformation from working methods to organizational structures and cultural implementation.

Transformations

- **Organizational Transformation:** Creating a new cultural identity, managing the transition of employees and retaining talent. Aligning future organization with strategic corporate & functional goals.
- **Sustainability Transformation:** Defining sustainable future target operating models and implementing seamless structures, processes, and systems.
- **Digital Transformation:** Develop digital strategies and operating models to facilitate change to a new status quo of processes, digital services and products.

Value Enhancement

- **Structure and process performance:** reorganization of units, management structures to focus on efficiency and effectiveness.
- **Market and customer performance:** realigning portfolios within business areas, customers, markets, and pricing.
- **Asset performance:** investment programs, working within and across the value chain to optimize processes, improve liquidity, minimize risks.
- **Employee performance:** personnel structure, recruiting, performance management, training.

Execution & Implementation

- **Strategic planning:** Planning, detailing and actively driving forward concrete implementation measures.
- **Strategy execution support:** Translating complex strategies into operative implementation. Highly integrated ways of working with customer teams.
- **Project management office (PMO):** Comprehensive know-how in agile project management methods, implementing agile organizations and training agile skills.
- **Stakeholder engagement:** Involving all affected stakeholders and decision makers and interacting with all corporate levels.



Turning 17,000 employees towards sustainability

Drove organizational and behavioural change in sustainability and climate for a 17,000-person company. Based on a customer-centric strategy to become a “partner for sustainable change”, a holistic engagement and feedback process was developed to drive and measure the impact of a new strategy.

Transactions, Mergers & Acquisitions

A holistic approach, to navigate throughout the entire investment lifecycle, addressing elements such as investment decisions, post-merger integration, and divestments/carve-outs. “One-stop-shop” combining unmatched commercial, technical, and environmental expertise with specialized competencies within M&A.

Due Diligence

- **Integrated Offerings:** Our DD services can be provided as a standalone or seamlessly integrated into a comprehensive package, with a dedicated client-facing project manager.
- **Commercial DD:** Evaluating sell-side, buy-side and lender-side cases for the business plan, market outlook, and positioning, focusing on strategy, policy, supply chain and risk outlooks.
- **Technical DD:** Technical evaluation of assets, innovation, and advanced technology for improvement potential, cost gaps, and opportunities.
- **Environmental/ESG DD:** Assessment of compliance with the environmental and ESG regulations as well as potential future risks and liabilities.

Post-Merger-Integration

- **Integrating business models:** evaluating synergies, and developing necessary measures for a seamless transition.
- **Streamlining organizational models:** joining processes, and systems for optimal integration.
- **Cultural analysis:** defining a unified target culture, and implementing measures to ensure successful cultural integration.
- **Change management:** Implementing comprehensive project and change management strategies, guided by a master plan that encompasses all integration and change-related tasks.

Carve-Out

- **Business model separation:** In-depth analysis of the outgoing unit's business model, defining specific targets and clarifying roles and boundaries to ensure its organizational alignment.
- **Entity separation:** A meticulously planned separation process, addressing legal, financial, operational, and logistical aspects leading to the spin-off date, requiring careful management for success.
- **Transition planning:** Managing employee transition and fostering cultural change.
- **Master planning:** Development of a master plan for project and change management, encompassing spin-off and related tasks.



Vendor Due diligence in connection with Nature Energy divestment

Ramboll assisted Nature Energy in preparations for the sale process. This involved developing commercial, technical, environmental, and ESG due diligence reports, and participation in the Q&A sessions representing the seller.

Asset-based solutions

End-to-end services across key energy domains

Energy Efficiency & Optimisation

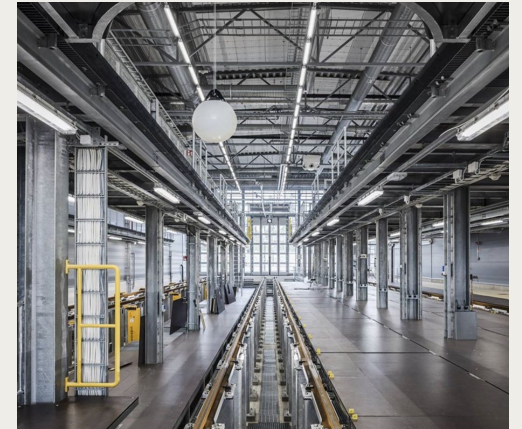
Energy Efficiency & optimisation is the first and most attractive option in the pathway for decarbonization to net zero. Monetization, however, of energy efficiency is growing in complexity.

The Challenge

- All of the new energy system and production buildout will drastically shift the equations of energy cost and carbon intensity. This transformation will make some forms of energy access more expensive. Europe's energy security situation will only exacerbate these challenges.
- Companies and countries, in meeting climate targets and reducing their exposure to volatile energy markets, will continue to find energy efficiency to be a beneficial investment and decarbonization strategy.
- At the same time, the monetization of energy efficiency investments will grow in complexity, as the primary carbon and electricity price drivers shift. Clients will need support evaluating options and implementing strategies that use efficiency as a pathway towards a cheaper, cleaner, and more resilient energy system.

Our approach

- We provide guidance in evaluating energy efficiency options across the entire portfolio and lifecycle of assets. We pair technology and engineering expertise with a business mindset to help clients assess options.
- Our approach draws upon broad team of specialist that serve our clients in projects ranging from setting corporate energy efficiency targets, down to proving business models for novel solutions, such as waste heat recovery investments into existing plants.
- Ramboll's experience in energy reduction and efficiency consulting comes from implementing a diverse range of technical solutions to heat, power, waste, and water systems. These solutions also benefit from Ramboll's capabilities in power and carbon markets, lifecycle assessments, and sustainability reporting frameworks, so that our clients can understand not just the outputs, but the impacts of their choices.



Development & Implementation of Decarbonization Strategy

Ramboll has successfully developed energy efficiency measures, and renewable energy solutions/technologies for four production sites, including technical descriptions, NPV calculations, risk identification, and CO2 reduction potential. The study builds upon the organisation's Group Net Zero strategy to achieve zero operational carbon emissions by 2030.

Renewable Energy

One of the world's single most pressing challenges today is the buildout of renewable energy. Underinvestment and lack of policy focus create supply chain bottlenecks within workforce requirements, port infrastructure, raw materials, and grid capacity

The Challenge

- The global ambitions for a green transition and the speed of the transition are largely dependent on a massive buildout of renewable power, from offshore wind and solar PV to hydro and geothermal power. Demand for electricity is increasing and expected to double by 2050, requiring a quadruple of PV and almost fifteen times the existing offshore wind capacity.
- Our clients are facing a massive challenge in balancing the high political ambitions with the regulatory framework in place, and at the same time facing global challenges on sustainability and circularity.
- The biggest challenges of the buildout are the regulatory framework, grid capacity, supply chain capacity, sourcing of raw materials, and workforce capacity and upscaling.

Our approach

- Our clients require help in navigating capacity and regulatory challenges in scaling both front-of-the-meter and behind-the-meter renewable power.
- We offer a unique mix of technological, commercial and strategic expertise in renewable energy generation to ensure a just energy transition. Our approach entails strategy and business case analysis services alongside full project development and implementation.
- We promote a strategic, data-driven, and balanced approach to a changing global energy landscape where affordability, security, and sustainability are intertwined. We have an in-depth understanding of technologies like wind, solar, heat pumps, and geothermal energy, along with strategic and commercial insight into the energy sector and related instruments such as PPAs, RECs, and GOs.



Project development of offshore wind farm

Ramboll supports the client with the project development of the 410 MW offshore wind farms located near Copenhagen which will be finalized in 2025. Services include acting as the Owner's advisor on strategic incorporation of sustainability requirements for the wind farm and the overall technical management.

Green Alternative Fuels

Succeeding in the energy transition requires commercial-scale development of **green alternative fuels**. Technical development and clear regulatory frameworks are needed to enable the transition and commercial scale production of green fuels.

The Challenge

- Political ambitions and changing regulatory requirements on decarbonization demand significant change in both organization, supply chain, and commercial approach for fuels.
- Our clients are facing a massive challenge in achieving net-zero targets in the transport, industry, and manufacturing sectors. Coupling these offtake markets with the power sector via alternate fuels (H₂, PtX, Biogas, Waste2X, etc.) will require new policy, regulatory, commercial, and technical standards.
- The biggest implementation challenges for green alternative fuels are developing a firm regulatory framework, supporting infrastructure, navigation of the different technology options, and aligning risk across the value chain.

Our approach

- We provide guidance in navigating investment decisions into green fuel production and entering the market as alternative fuel offtakers.
- For newcomers into the sector, we produce clear and simple technology and market assessments that inform business strategy. For more advanced players, we produce detailed asset-level business plans, just transition analysis, go-to-market strategy, feasibility estimates, and investment diligence.
- Our approach requires a far-reaching view of strategic and commercial possibilities founded in a deep understanding of the underlying technologies. We integrate technology awareness into studies that evaluate the future of the industry.



Commercial assessment of investment opportunities in various sustainable fuels

The client is a leading supplier of specialist storage, handling and transport for bulk liquids and gases. Ramboll identified and evaluated investment opportunities within the sustainable fuel sector, conducted detailed analyses of the top ten options, and recommended positioning and opportunities.

Infrastructure & System Integration

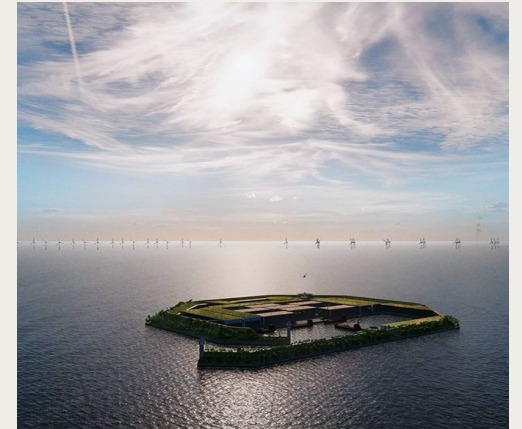
The balancing act of clean, affordable, and reliable energy is achieved through infrastructure & system integration. Build-out of next generation energy infrastructure requires holistic planning and consideration of project- and system-level influences and impacts

The Challenge

- The emerging interdependencies between power, fuels, carbon, and new commodity markets change the way we plan for the future. This has equally important implications in sustainability and security of the future energy system.
- Affordability, reliability, and sustainability are all becoming increasingly weather-dependent. Energy storage and transmission projects increase system resilience and have an increasingly complex role.
- The next generation of shared energy infrastructure is being planned today without the tools to properly and holistically evaluate the policy trade-offs and business opportunities that will become apparent as the transition changes the makeup and operations of the energy system.

Our approach

- Our specialists provide guidance with respect to exploring possible influences and outcomes of project- or system-level changes that drive the energy transition forward.
- We rely on systems thinking to drive our clients forward and produce comprehensive strategy, business case, and feasibility analysis to drive decisions. Ramboll moves beyond the scope of a single project to understand how broader transformations are shifting the commercial, policy, security, and technical drivers of the energy system.
- Energy systems integration analyses are often rooted in the technical and environmental details of projects, but expand to include broader-ranging topics including economic, sustainability, technology drivers.



Client consultant for developing the North Sea Energy Island

The energy island in the North Sea will be key to powering Europe with renewable energy. By 2033, the island will have a capacity of 3 GW zero-carbon electricity. Ramboll supports as client consultant in all elements of developing and realising the first Energy Island.

Carbon Capture, Utilisation & Storage (CCUS)

Providing clarity and overcoming challenges to scaling **Carbon Capture, Utilization and Storage (CCUS)**.
Navigation and risk mitigation across the value chain are crucial to enable and drive CCUS projects

The Challenge

- Based on the global energy transition trajectory and the challenges of replacing technologies in hard-to-abate sectors, the world will need carbon capture, utilization, and storage to meet decarbonization targets.
- CCUS introduces a new set of regulatory, technical, safety, and commercial frameworks for companies, investors, and governments to consider for a range of applications.
- The biggest challenges in this industry will be implementing the business models that take optimal advantage of incentives and partnership models to deliver projects that maximize economic and sustainability impact.

Our approach

- Our CCUS specialists provide guidance in assessing evolving opportunities in CCUS markets. We offer comprehensive CCUS expertise through policy and regulatory assessment, corporate strategy, investment advisory, and project impact analysis.
- We help clients structure and transact on first-of-their-kind models for biogenic CO₂, large industrial-scale CCUS projects, and assess impacts of horizontal carbon transportation and storage infrastructure.
- The solutions we develop with our clients integrate financial, technological, economical, and societal expertise to ensure a just energy transition. We promote a strategic, data-driven, and balanced approach where affordability, security, and sustainability are intertwined.



Carbon sourcing for e-methanol production

Ramboll is assisting with development of a carbon sourcing strategy, mapping the most attractive carbon point sources available, risks associated with each source type and their relative maturity.

Do you want to know more? Please reach out!



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