

Ramboll water solutions for data centers



RAMBOLL

Bright ideas.
Sustainable change.

How Ramboll supports data centers to achieve water ambitions

Ramboll sees every data center project as a chance to deepen our understanding of your business goals and enhance value creation. This partnership approach provides a dedicated and responsive service team, access to experienced data center staff, and our full range of professional and technical expertise.

Global expertise	Trusted partner	Sustainable solutions	Responsive
<ul style="list-style-type: none">• Our global Water practice leverages decades of experience to address water supply risk, resilient infrastructure, efficient use, wastewater treatment, stormwater management, and operational excellence.• We assemble local teams and experts to ensure thorough understanding of regional regulatory and policy issues and design codes.	<ul style="list-style-type: none">• We aim to have a partnering approach to projects since this has proven to deliver high quality services, with consistency at sites across the globe.• Ramboll targets select global sectors, such as data centers, and key clients, offering value through collaborative workshops and dedicated teams for aligned business goals and consistent delivery.	<ul style="list-style-type: none">• Sustainable solutions are a core focus for Ramboll Water; thus, we can tailor global engineering and policy know-how to match strategic objectives on water positivity and other corporate and business sustainability goals.• Our experts highlight local opportunities ranging from reclaim water reuse, rainwater harvesting, and nature-based solutions that can enhance site biodiversity and/or watershed replenishment.	<ul style="list-style-type: none">• Ramboll has the resources to rapidly address challenges in water supply availability and reliability, for data center siting, planning, and operations.• Ramboll has specialized experience in fast-track engineering design for cooling water infrastructure pipelines; treatment systems for potable, surface, groundwater, reclaimed water sources; and cooling blowdown and other wastewater.

Capturing the full value of water with Ramboll



Water stewardship

We provide technical and strategic support to develop water sustainability goals and implement water management programs to manage global and local water stewardship opportunities and risks.



Water resources management

We address issues related to water availability, water supply, water resource management for groundwater and surface water, water quality and water asset management.



Water and wastewater treatment

We create cost-effective and sustainable treatment through the design, commissioning and operations of advanced treatment technologies, reclaimed water / reuse, and industrial wastewater treatment.



Water infrastructure & climate adaptation

We support securing water as a critical utility through planning and design services related to infrastructure for water and wastewater, stormwater management, and climate adaptation and resilience.

Managing water across a data center project life cycle

Strategic & risk planning

- Water sustainability goals
- Water supply risk assessments
- Scarcity & flood response plans
- Source water protection plans
- New region regulatory reviews
- Water recycling and reuse
- Biodiversity
- Watershed replenishment

Site selection & permitting

- Site technical due diligence
- Water infrastructure resilience
- Sustainable water withdrawal
- Wastewater discharge
- Reclaimed water use
- Stormwater & flood modelling
- Climate planning & resilience
- Conceptual master planning

Design & construction

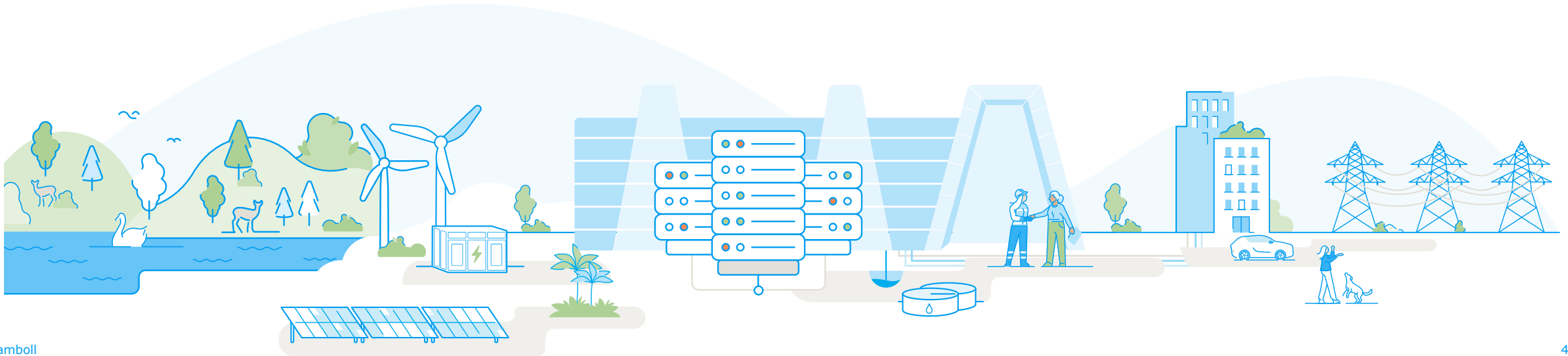
- Cooling water technologies
- Water treatment process selection
- Preliminary engineering studies
- Detailed design
- Hydraulic modeling
- Operability reviews
- Procurement support

Construction & Commissioning

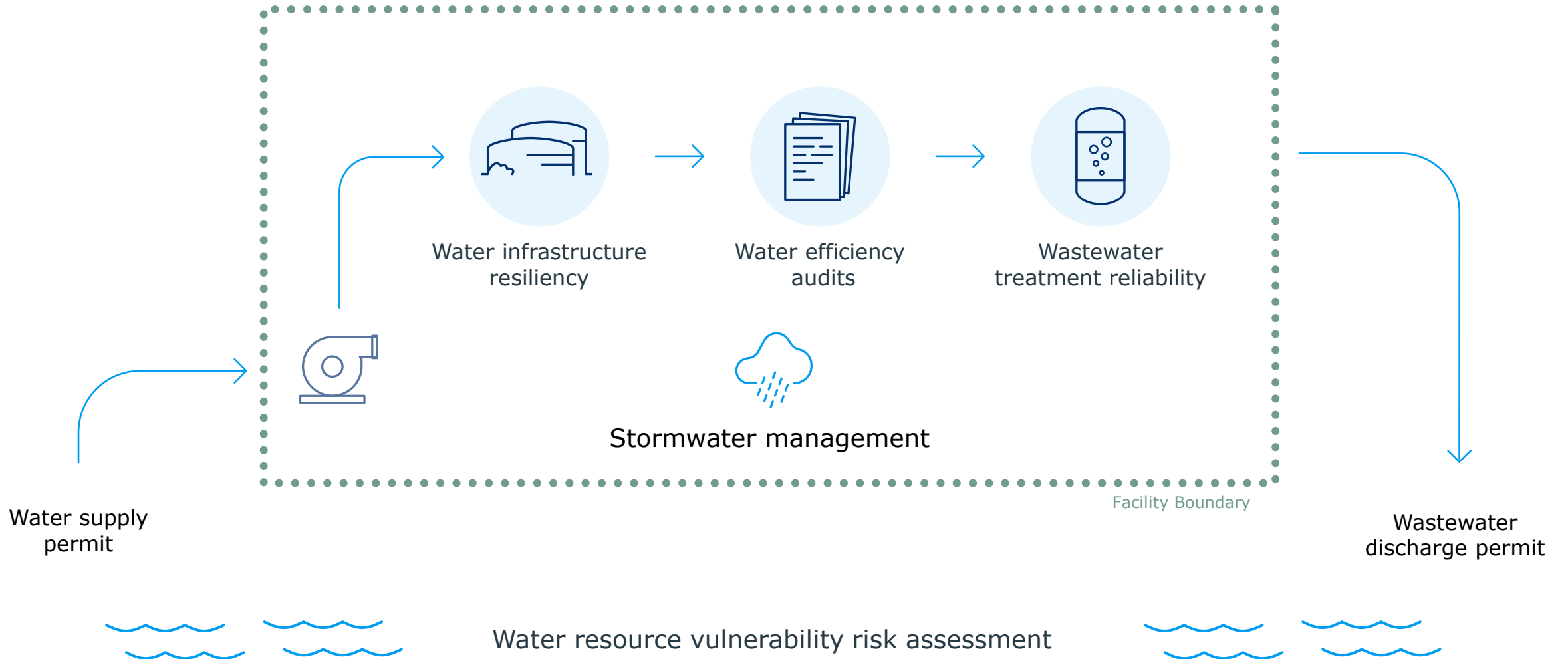
- Construction inspection
- Treatment skid fabrication
- Equipment commissioning
- Process startup
- Operating procedures
- Maintenance plans
- Training

Operational support

- Water withdrawal reporting
- Surface water intake management
- Discharge permit compliance
- Water best management practices
- Stormwater control & compliance
- Efficient water use
- Cooling tower operations



We manage operational risks: site by site or via global programs



Talk to us about our data center water case studies



Master planning & conceptual design



Global site selection & due diligence



Watershed-based risk assessment



Cooling water treatment system designs



Rainwater harvesting for cooling tower water



Water risk analysis & drought planning



Aligning cooling water design & permitting



Global water quality risk assessment



Sustainable design of water infrastructure



Water compliance services for portfolio of sites

Your global contacts



Johanna Ardland-Bojvall
Johanna.Ardland-Bojvall@ramboll.se



Fabio Kaczala
Fabio.kaczala@ramboll.

05

06



David Metcalfe
david.metcalfe@ramboll.co.uk



Pritha Hariram
PRHM@ramboll.com



Isaac Ng
icng@ramboll.com

04

03



Johann Van Aartsen
JAartsen@ramboll.com

01



Pat Campbell
pcampbell@ramboll.com

02



Robin Richards
r-richards@ramboll.com



Rachel Schwaab
Rachel.Schwaab@ramboll.com

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- 03 Europe, Middle East & Africa
- 04 Asia Pacific
- 05 Nordics
- 06 UK & Ireland

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