



RackBank

# AI Datacenter Consultancy

Delivering a full range of  
Datacenter services

# Area of Expertise

An aerial view of a modern city with green buildings, solar panels, and a central fountain. The buildings are multi-story with large windows and green roofs. The city is surrounded by mountains in the background.

## Design + Engineering

- Architecture
- Mechanical and Electrical Engineering
- Civil and Structural Engineering
- Security and Resilience

## Consulting + Planning

- Site Selection Due Diligence and Permitting
- Environmental Services

## Construction Services

- Project Management
- Construction Management
- Cost Consulting

# Design + Engineering

## ARCHITECTURE, MEP, CIVIL + STRUCTURAL ENGINEERING

At the core of successful data centers, is their effectiveness in supporting their owners' day-to-day needs, and this is a fundamental focus for RackBank when designing and developing these facilities for our clients. Our specialized capabilities, such as in power and cooling infrastructure, are applied through the filter of what the client needs, enabling us to provide cost-effective solutions without disadvantageous trade-offs.

### Architecture, MEP, Civil + Structural Engineering services:

- Master Planning
- Architecture/interiors
- Civil engineering
- Structural engineering
- Mechanical engineering
- Electrical engineering
- Geotechnical engineering
- Water & wastewater
- Power solutions
- Facility engineering
- Strategic facilities/ infrastructure planning
- Logistics
- Value engineering
- Generation plant and fuel system
- IT infrastructure/video services
- High-voltage/low-voltage power distribution systems
- Fire Engineering
- Uninterruptible power supply (UPS) facilities – N+1 through N+N redundant systems
- Coordinated services distribution
- Rack layouts/space planning
- High-density services provisions
- Control and building management systems
- Fire detection/protection systems
- Security and access systems
- Internal and external lighting
- Heating, ventilation, and air conditioning
- Structured cabling system
- Water leak detection systems
- Aboveground public health
- Condition/pre-acquisition surveys
- Computational fluid dynamics (CFD) analysis

# Consulting + Planning

## SITE SELECTION DUE DILIGENCE + PERMITTING

RackBank understands how important site selection is to clients and to the local community when planning new data centers and renovating facilities. We provide comprehensive site selection due diligence (SSDD) and permitting services, which are built on 3 key pillars: understanding of clients' needs; knowledge of local experts on regulatory, security, environmental and utility requirements; and expertise from RackBank's global data center network.

### SSDD + Permitting services:

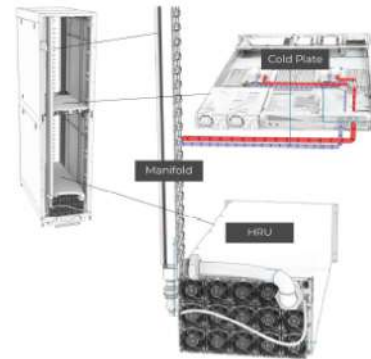
- Determination of owner requirements
- Infrastructure availability assessments
- Site inspections and surveys
- Geotechnical engineering
- Civil site design
- Remedial liability assessments
- Building condition surveys
- Wetland and ecological evaluations
- Cultural resource studies and compliance
- Environmental site assessments (ESAs)
- Noise modeling and impact assessments
- Air emissions modeling and permitting
- Local jurisdiction/agency coordination and entitlements negotiation
- Incentive analysis
- Tax and others
- Preliminary schedule and budget analysis
- Sustainability consulting
- Labor force assessments



# Why RackBank

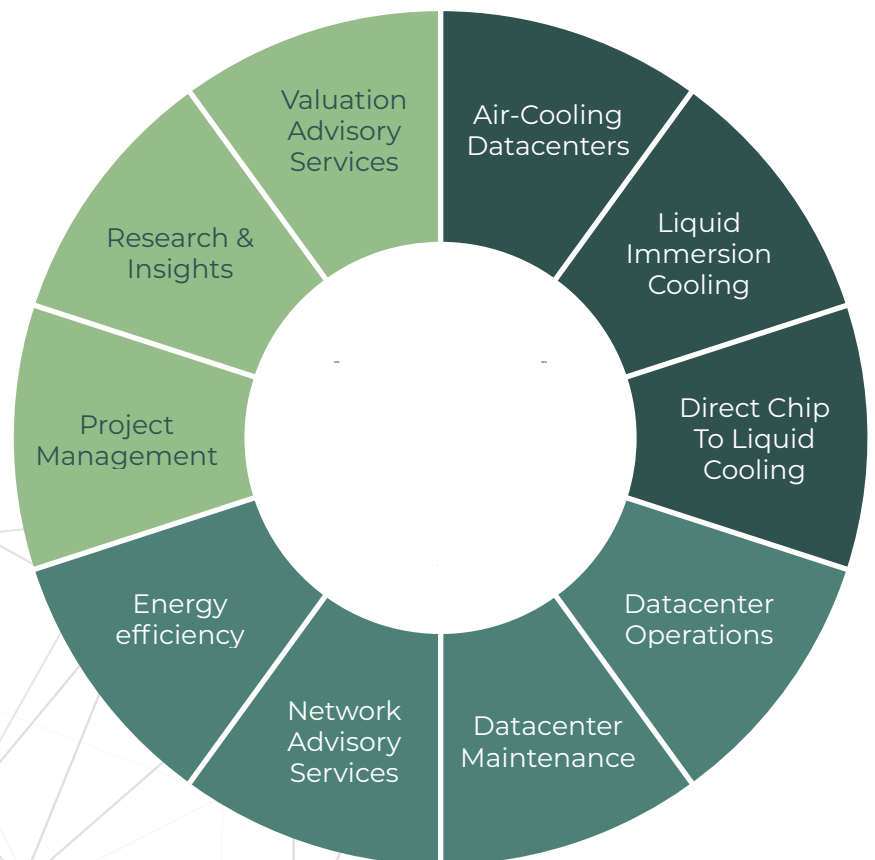


**Liquid Immersion Cooling**

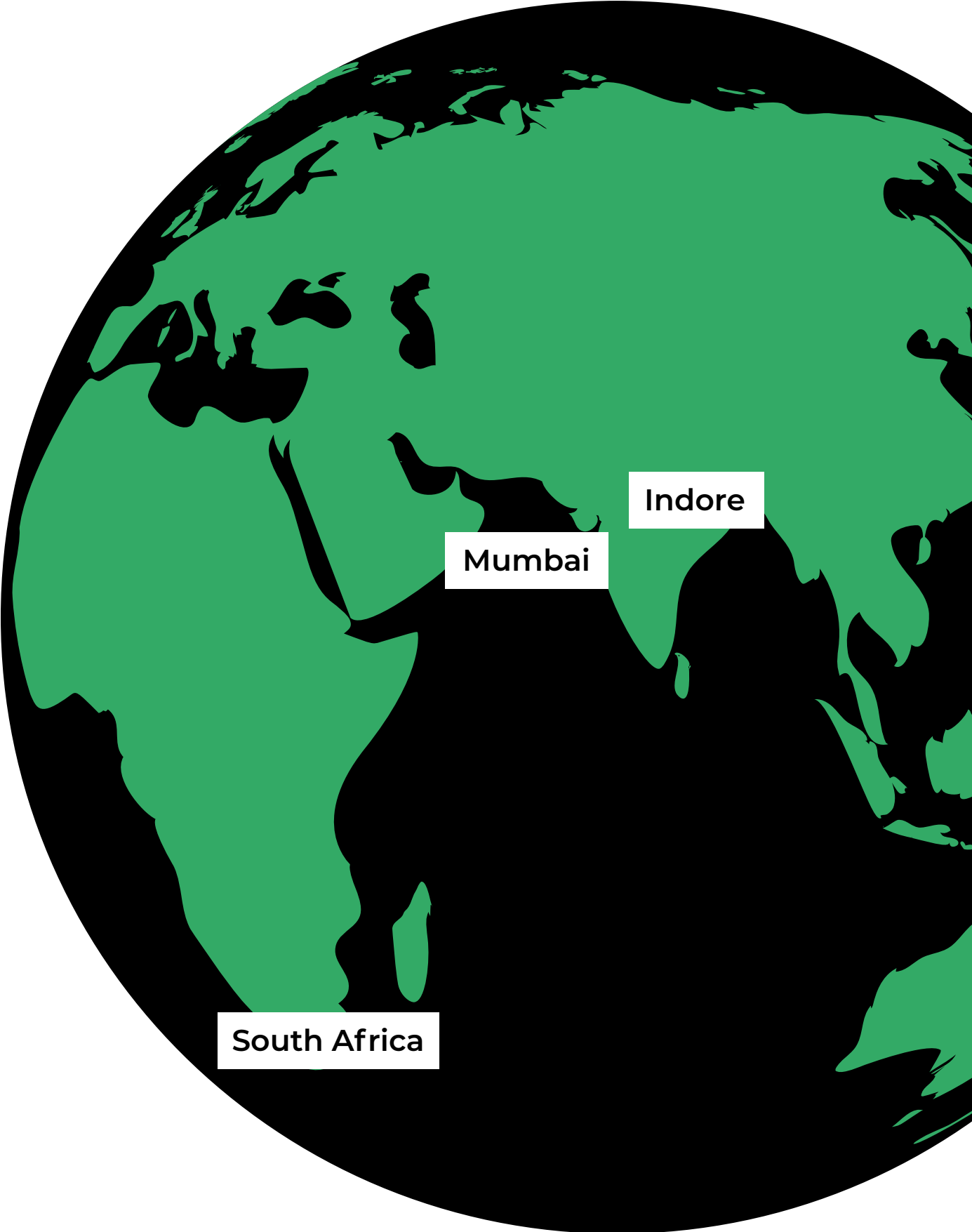


**Direct-to-chip WATERLESS Liquid cooling**

- Facility management and Integrated Data Centre Operations
- Technical services (maintaining building services and ICT services) and year-round, 24/7 operation
- Energy and sustainability consulting



# Locations



# About RackBank

We deliver professional services in critical markets throughout the entire project life cycle. We believe in achieving mission critical facilities, such as datacenters, that provide resilient, innovative and sustainable solutions for our clients, and for the communities that are served by them.

**You Imagine, We Deliver.**



**Narendra Sen**  
**Founder & CEO**  
RackBank Datacenters



# Thank You

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