



Data Center Services

In the race to market, data centers face a variety of challenges including optimal site selection, reliable and resilient power, streamlined grid connections, efficient cooling systems, timely environmental approvals, and data-driven proactive asset management.

We create partnerships with our clients to develop agile strategies and implementation plans that ensure data centers are built quickly to operate reliably and efficiently..

We understand the grid, are experts in all forms of power generation, energy storage, and microgrid systems, and provide strategic planning and engineering designs for heavy load, critical systems, both grid connected and island systems.

As a trusted partner, we will help drive optimal system designs with reliable and resilient power and cooling systems, leveraging our decades of experience across the power and large load sectors to provide knowledgeable, sound advice.

Our objective is always to work with you to address your most complex needs. With our unique skillset, we solve your toughest data center design challenges and deliver real results.

Hatch provides data center developers:

- Site selection and strategic planning
- Reliable and resilient power supply designs
- Quick to build power generation strategies
- Interconnection modelling and HV designs
- Onsite substation and distribution design
- Physical and cybersecurity planning
- Operational load forecasting
- Control room and asset monitoring systems
- Full owner's engineering, environmental, and project delivery services
- Asset management plan creation and implementation

From planning through operations, we are your one stop shop for data center services.

ESSENTIAL SERVICES AND SOUND STRATEGIES

Data Center Services

Site selection & interconnection



We provide site selection and interconnection modelling services to ensure that data centers can accelerate their speed to market. Critical challenges we help manage include available power, ambient temperature impacts of cooling needs, sufficient land, available interconnections, site security, and proximity to network connection points. We support interconnection studies with scenario planning for various multi-feeder connection options.

Strategic planning & utility collaboration



We have extensive experience supporting utilities and critical loads, allowing us to support data center load connections by establishing plans to collaborate with the utility. We evaluate options to provide grid support through demand response, leveraging onsite power, and load forecasting analytics. These options provide greater certainty to onsite generation controls and utility grid management solutions.

Operational readiness & asset management



Our dedicated operational readiness and commissioning teams accelerate the transition from construction to commercial operations for complex assets. We establish advanced data analytic systems and leverage utility operational data to assess asset condition and predict failures before they occur. Such analysis provides actionable recommendations that reduce costs, increase reliability, and support data-driven decisions.

Physical & cybersecurity



We have a strong understanding and deep bench of experts with physical and cybersecurity experience related to critical infrastructure. We are familiar with the best practices of NIST, NERC CIP, and NIS2 frameworks and directives to establish, implement, audit, and maintain cyber practices. We also understand the importance of zoned access control from site-wide to specific cages, leveraging industry leading AI surveillance technologies.

Microgrid & energy storage solutions



We are industry leaders in the design of islanded and offgrid power systems for challenging and critical loads. We understand grid forming technologies, and the need to provide back-up resiliency that maintains power quality and system reliability should the grid supply be delayed or unavailable. We leverage our energy storage team's multi-technology experience integrating battery chemistries, thermal storage, pumped storage, fly-wheels, and supercapacitors.

Power generation strategies



With more than 100 years of expertise in power generation and related electrical substation systems, we work with data centers to provide the optimal reinforcing solution for reliability. We have expertise in wind and solar power, natural gas and hybrid hydrogen power generation, and mixed integrated technology systems. Our solutions can alleviate grid constraints or accelerate operations from interconnection delays.

Owner's engineering and full EPCM delivery services



Our teams have experience providing owner's engineering services where we become an extension of your team helping to specify project requirements, manage procurement, and oversee construction of complex projects. We also partner with constructors to deliver full lifecycle project delivery services from environmental and permitting support through issued-for-construction engineering designs and commissioning service

Looking for more information?



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