Data Centers

Tremendous increases in the demand for data and the impact of artificial intelligence (AI) in business and our lives bring a growing demand for critical data centers that support secure access to that data. Their role in the digital economy and in life in general cannot be overstated.

Marx Okubo has developed expertise in the data center space with involvement in over 75 data centers throughout the United States, taking on roles in evaluation of existing centers, pre-construction documentation reviews, feasibility, construction monitoring, project management, and litigation support.

Our team understands that data centers have uniquely high energy demands that drive the need for an effective cooling infrastructure. Also, the need for continuous operation, reduced latency, and higher-tier performance imposes additional requirements on the design of a facility's power systems. And ultimately, physical and network security are paramount factors in the design of these facilities, as they address site logistics as well as facilitate continuity of operations and minimal disruptions to businesses and data end-users.

KEY DATA CENTER PROPERTY SERVICES:

> **Condition assessment of existing buildings**

> **Electrical and power systems evaluation**

> **Cooling systems assessment**

> **Physical security measures inspection**

> **Fire protection/life safety review**

> **Project budgeting and cost analysis**

> **Planning and scheduling**

> **Construction oversight**

> **Construction contract review**

> **Power agreement review**

Office
Retail
Hospitality
Multifamily Residential

Arts, Culture & Entertainment
Industrial/Warehouse
Education
Parking Structures

● **Data Centers**
Mixed-Use
Healthcare

Marx Okubo has extensive experience reviewing a variety of data center types, including:

> Enterprise data centers owned and operated by companies for their internal use

> Colocation data centers offering space and power

> Cooling to multiple customers

> Cloud data centers used to support cloud computing services

> Edge data centers located closer to end-users to reduce latency

> Hyperscale data centers

Our services include assessing the structural integrity of the building's foundation, roof, walls, and overall structural health. We evaluate the capacity, redundancy, and condition of electrical systems, check HVAC systems for efficiency and reliability, and ensure there are adequate fire detection and suppression systems. We also inspect physical security measures, including access controls and surveillance, as well as confirm the availability of needed power and agreements required to deliver that power to the data center.
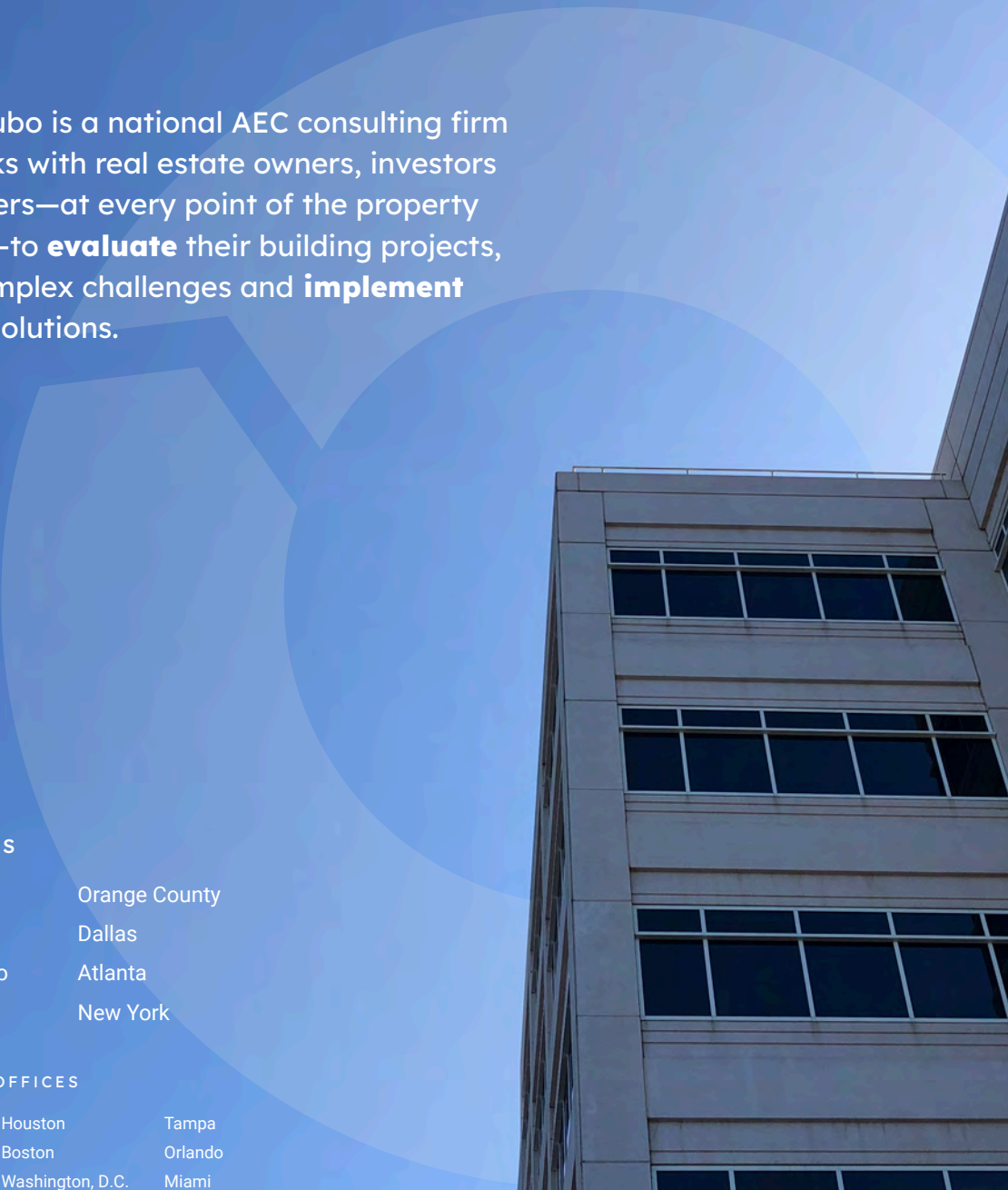
Marx Okubo's comprehensive approach ensures that every aspect of a data center's design and operation is thoroughly evaluated, providing confidence that facilities will meet the highest standards of performance, reliability, and security.

We have deep understanding of all tier classifications, including the nuances of Tier III and Tier IV data centers.

Marx Okubo is a national AEC consulting firm that works with real estate owners, investors and lenders—at every point of the property lifecycle—to **evaluate** their building projects, **solve** complex challenges and **implement** tailored solutions.

LOCATIONS

Denver	Orange County
Seattle	Dallas
San Francisco	Atlanta
Pasadena	New York

SATELLITE OFFICES

Portland	Houston	Tampa
San Diego	Boston	Orlando
Phoenix	Washington, D.C.	Miami
Austin	Nashville	

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