



Hungry for Data: LEED Targets Data Centers

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Though somewhat intangible, and certainly not of utmost concern to most of us and our rapid-fire browsing, data requires huge amounts of energy to process. Data centers power our appetite for data at all hours of the day. They are the physical embodiments of our everyday data usage - using Google or Yahoo! to search the most recent March Madness upset, posting photos of a recent vacation to Facebook, loading an app on the new iPad 3 - and like every other structure, they can (and should) be built green.

For that reason, we've adapted [LEED for New Construction](#) and [LEED for Existing Buildings: Operations & Maintenance](#) to the particular needs of data centers to ensure that new construction and facility retrofits can successfully pursue and apply LEED.

What makes data centers such a unique project type? Data centers have very few occupants, and they are huge energy users: a data center can use as much energy as a small town (really). Whereas a typical building is designed to meet heating and cooling needs for occupant comfort, a data center must provide massive cooling power for its servers. Water use is also a key target area for data centers, if the facility utilizes water for cooling. These specific building needs are built in to the data center adaption for LEED.

Recently, there's been a surge of LEED-certified data centers: Among them, Facebook, Yahoo!, Internap and QTS. [Facebook's first energy efficient, LEED Gold data center](#) in Prineville, Ore. uses 70 percent less water for cooling purposes than an average data center. [Apple's LEED Platinum data center](#) in Maiden, NC, utilizes outside air cooling so that facility chillers can be turned off 75 percent of the time. All of these projects are leading the way in how we think about this project sector.

By bringing data centers into the suite of LEED rating systems, we're removing barriers so that even more data facilities can participate in LEED and build sustainably. Read more about the [adaptations for data centers](#) and other market tracks, and be sure to weigh in on these changes to LEED in [public comment](#), now open until Mar. 27.



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