Greener by Design

Data Centers

The lack of clean energy or renewables in high tech companies are becoming a thing of the past especially since having a renewable profile recruits clients and employees with strong views on energy. Datacenters are very critical facilities in our world where unexpected outages and weather events can disrupt business operation. *Do you know that one average sized data center can use enough energy to power 180,000 homes?* This, is where solar will very soon be take on a core role in many Data Centers. Green Data Centers are becoming a self-marketed attraction that benefit from long-term stability in pricing due to renewables like solar.
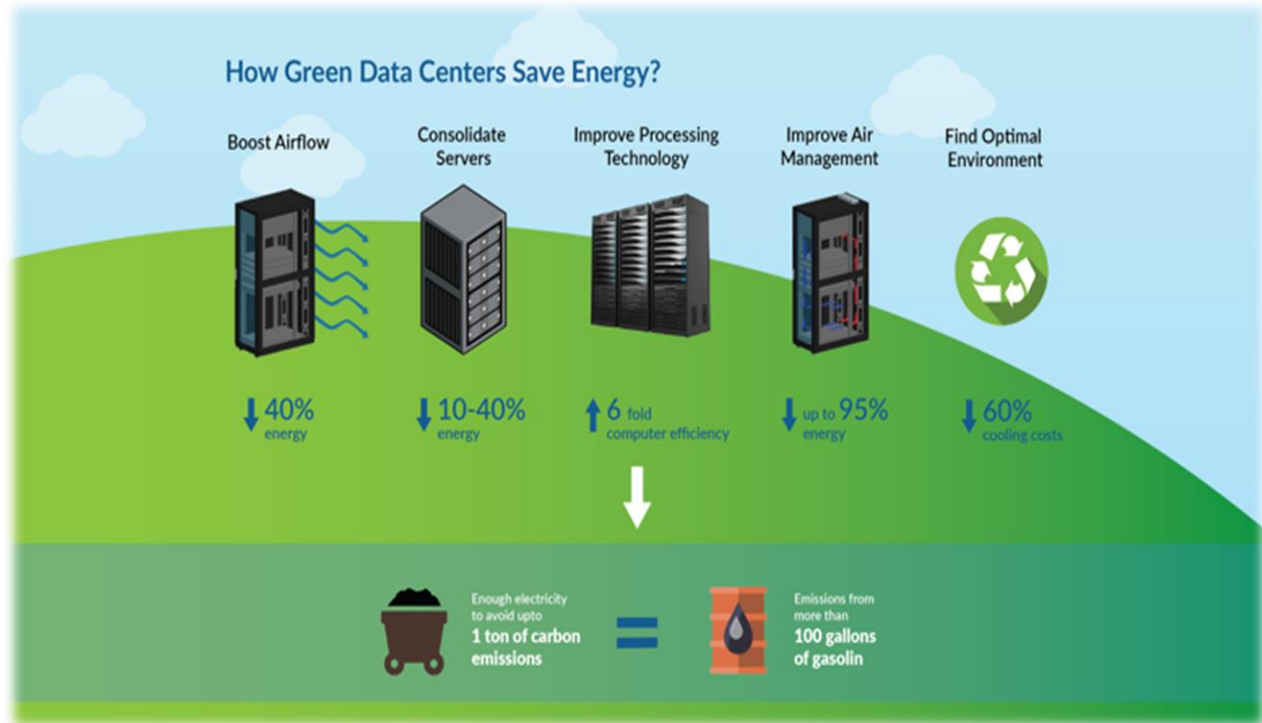
How can Greener by Design provide services to Data Centers?

We can offer the following for new or existing facilities:

- **Site Mapping and Selection**
- **Environmental Permitting**
- **Energy Master Planning, Procurement, Demand Response Programs**
- **Energy Reliability and Redundancy, Microgrid Planning**
- **Grant-writing and Assistance for Incentive Applications**
- **Green-building Design Services**
- **Renewable Energy Investment Advisory**
- **Greenhouse Gas Emissions Inventory and Climate Action Planning**
- **Land Use Planning, Brownfield Remediation**

Opportunity Scope

We examine each client's real estate and depreciable investments to identify opportunities for creating a comprehensive cost saving and revenue growth plan based on monetizing environmental components of those assets. GbD will consult with you on the scope of our review, but may include storm water, waste water and solid waste streams, conventional and renewable energy production, building and manufacturing life cycle analysis, or other site-based or remote infrastructure systems review.

How Green Data Centers Save Energy?

Q & A:

Can I buy energy from a green energy provider in my region?

Yes, buying renewable energy is possible if your data center is in the same grid region as your green energy provider.

What if I don't have a green energy provider in my region?
Do you have land you can work with?

Yes. - Building a local solar farm can be a viable option
No. - Hybrid solar power systems are beneficial

So, my data center is "green" what message does that give out?
You have now acquired sustainable business practices and your environmental impact entails eliminating carbon output. There are financial and regulatory benefits for obtaining green certification.

How does net metering benefit us?
Net metering allows you to generate electricity at your premises, interconnect with the local power grid, and use your on-site generation to offset electricity purchased from the local utility.

The cost of panels is still somewhat high, what can you advise in this regard?
Large projects usually rely on incentives to make this work. Some benefit from a federal investment tax credit and are eligible for Renewable Energy Certificates.