

## By 2020, electricity consumption in US data centers will be approaching 140 billion kilowatt-hours per year. At today's prices in the commercial sector, that's \$15 billion

Efficiency matters.

of OpEx allocated to electricity alone.

Data centers typically lose 21-27% of power due to inefficient systems. Since you're paying for all of that power, you want to use as much of it as possible, right?

Let's see if we can uncover—and rectify—some areas of inefficiency in your data center.

Efficiency Killers

## Balancing the Load on the AC Grid

Single-phase rectifiers require an extra step in power conversion, and innovation-minded engineers are stuck balancing the load instead of developing and implementing new technology.

Carrying power from the transformers to the racks requires an incredible amount of

Putting Energy through the Paces

Replacing Equipment

Computer power doubles every two or three

years, and as data centers replace obsolete

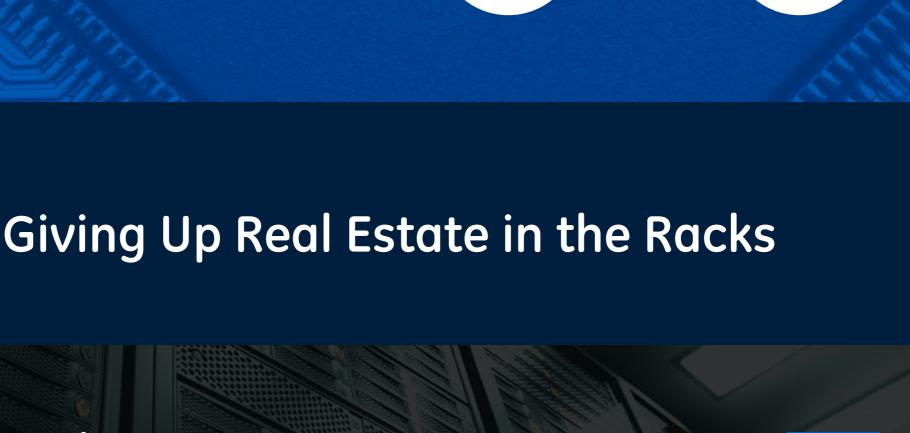
Data centers too often sacrifice RUs to power

a larger footprint, and lost potential revenue.

supplies, which translates into more racks,

systems, thousands of power supplies are

removed, trashed, and replaced.



lower-efficiency cable. Every conversion step

and every yard of cable serves to decrease

overall data center efficiency.

## Brings power within inches of the load equipment Reduces cable requirements Decreases power loss Shrinks cooling costs 3-5% Allows UPS hot-swapping from the cool aisle Can be installed in other vendors' cabinets

The New OneStep Edge:

A Turnkey Solution

With the OneStep Edge, the PDU is installed on the left side of the cabinet, leaving 42RU of space.

But that's not all of its efficiency-boosting benefits. The OneStep Edge also:

Distributes 480V down the rack

Ensure electrical phases grow

Eliminate a conversion step and

significantly reduce the amount

to get power to the rack

single-phase power supplies

Plus, our GP100 allows you to allocate more RUs

power supplies. But what if your entire rack could

to revenue-generating equipment, rather than

be open for business?

of lower-efficiency cable required

in equal increments

The GP100—Our 1RU, 3-Phase Power Solution

By developing our groundbreaking, 1RU, 3-phase GP100, we've helped data centers migrate from single-phase to 3-phase rectifiers without sacrificing rack space. That switch goes a long way toward resolving data center inefficiency. 3-phase rectifiers:

Have a longer lifespan than

6kW

39

38

37

36

6kW

41RU

Available

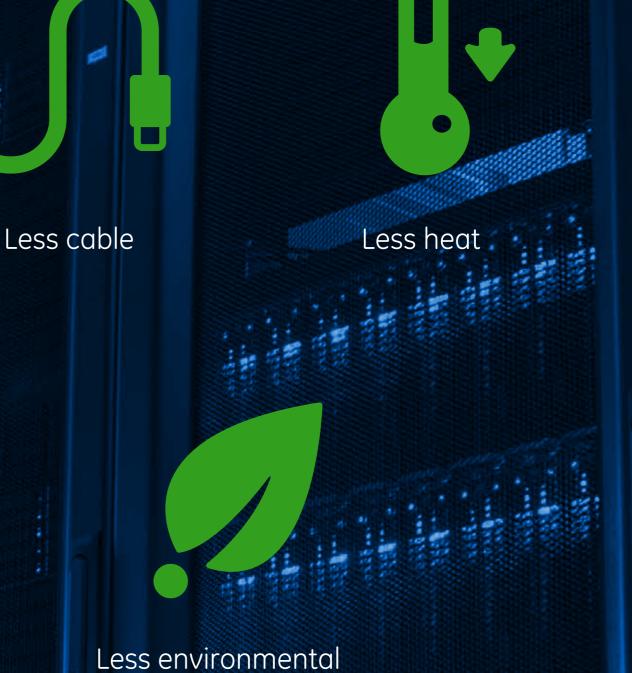
Less is the New More

With the OneStep Edge solution, less truly is more.

Less waste

More density

Less energy loss.



impact

More power

More efficiency More revenue

To learn more about the OneStep Edge Solution, download our latest eBook,

Maximizing Efficiency in Data Centers, or visit www.GECriticalPower.com.

It's your bottom line.

Transformed.