

21 Power Distribution Facts

Commercial and industrial buildings, critical facilities, and infrastructure require always-on electrical power. Discover the power distribution-related trends and statistics that motivate facility operations teams to work diligently to safeguard their people and assets while also trying to maximize the power availability, energy efficiency, sustainability, and cybersecurity of their installations.

Safety of people and assets cannot be compromised



After natural disasters, fire is the **1st*** cause of corporate insurance claims. Electrical fire contributes to greater than **\$200M**** in property damage cost.

*Allianz, **NFPA

22%*

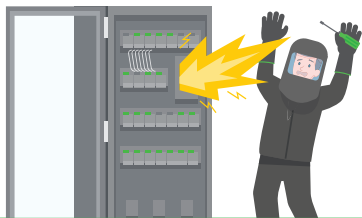
of workplace fires are electrical in origin.



25%**

of electrical fires are due to faulty or loose connections.

* Electrical Contractor Magazine, ** NETA World



5 to 10

arc flash incidents per day in USA.

ESFI, NFPA

Using resources efficiently is a must for our future and our planet



◆ Between **60-80%** of buildings, industry and infrastructure efficiency remains untapped.

World Energy Outlook 2012, OECD/IEA, Internal analysis

◆ Schneider Electric customers have experienced **10-30%** improvement in energy costs.

Internal observations with clients

◆ **65%** of surveyed Facility Managers observed payback of **2-5 years** for energy efficiency projects.

FacilitiesNet.com



◆ Building owners report that green buildings – whether new or renovated – command a **7% increase** in asset value over traditional buildings.

Dodge Analytics 2016



◆ European Commission signed an agreement with member representatives to set its energy efficiency goal of **32.5% by 2030**.

European Commission

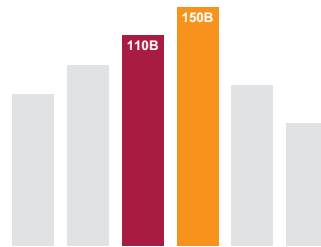


◆ The Singapore Building and Construction Authority (BCA) targets **80%** of buildings be “green” by 2030.

Singapore Building and Construction Authority (BCA)

Power is essential to ensure business continuity in the digital age

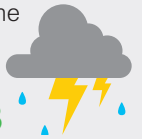
Power outages cost the US Economy about **110B USD** and the EU economy **150B EUR** each year.



Berkeley National Labs, Consequences of Poor Power Quality – An Overview - 2011

Electrical interruptions caused by extreme weather have

doubled* since 2003 in the US.



At least 22 companies in the Fortune 500 plan to buy **100% renewable energy****.



* Climate World, ** NY Times 2018

Average cost of downtime in hospitals is

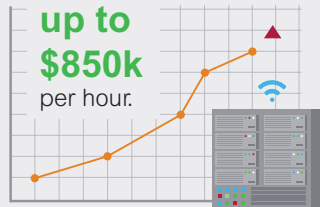
\$1M

per event.



Data centres can experience losses of

up to \$850k per hour.



Copper Development Association, Allianz Global Corporate & Specialty, internal observations

Average cost of a downtime event in Semiconductor plants can reach up to

4M Euro.

Financial trading can lose up to

6M Euro per hour.



Industrial plants can lose anywhere from **100k Euro** up to nearly **half a million** per hour.



Poorly maintained switchgear/circuit breakers are **62%*** more likely to fail than those under a proper maintenance program.

* IEEE 493

Cybersecurity planning is essential, not optional



Thirty-one percent of organizations have experienced cyber attacks on operational technology infrastructure.

Cisco



2015

2020

IoT security costs will rise to **20%** of the IT budget of a company by 2020 compared to just 1% in 2015.

Gartner