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.

22%* of workplace fires are electrical in origin.

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

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.

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

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

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

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

The Singapore Building and Construction Authority (BCA) targets 80% of buildings to be green by 2030.

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.

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

Average cost of downtime in hospitals is $1M per event.

Data centres can experience losses of up to $850k per hour.

Industrial plants can lose anywhere from 100k Euro to $850k per hour.

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World Energy Outlook 2012, OECD/ IEA, Internal analysis

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

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

Cybersecurity planning is essential, not optional

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

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

2015 2020

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