Building More Flexible & Efficient Interiors

A New Standard for Commercial Buildings

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What Is The EMerge Alliance?

An open industry association...

- Formed by leaders in architecture, engineering, construction, energy, technology and building products
- Promoting the rapid adoption of safe, low voltage DC power distribution and use in commercial interiors
- Professionally managed and based in California
- Accepting new members
What is EMerge about?

A DC-powered platform for commercial interiors.

- Safe, low voltage DC power distributed within a building
- Enabling plug-and-play device flexibility and increased energy savings
- Optional direct DC-power integration with alternative energy sources
- A new open standard for a wide variety of commercial buildings
Where Is EMerge Focused?

A hybrid power application for commercial interiors.

ELECTRICAL ENERGY SOURCES

- Site Generation
- Photovoltaic
- Wind Power
- AC Line Power

ELECTRO-ACTIVE INTERIOR LOADS

- Digital Lighting
- HVAC Motors
- HVAC Actuators
- Sensor & Controls
- Data Centers

Direct Use of DC Power Sources

Distribution Management System

Wireless and PLC Controls

OPTIMUM POWER SOURCING, USE & MANAGEMENT

The EMerge Alliance

Focused on creating a hybrid power topology that meets the needs of buildings today and tomorrow.
Safe, Efficient, Plug & Play

Put it all together in a simple, organized way.

The EMerge Alliance

Standardizing a low voltage DC layer that is code-compliant and versatile for plug and play functionality with a wide range of DC-based devices.
Flexibility

Unprecedented design and space flexibility.

- Allow direct access to safe power wherever it’s needed
- Make it easier to install light fixtures, sensors, actuators and other devices
- Plug and play mobility and simplicity
- Enable easy repurposing or reconfigurations without rewiring
- Help future-proof a space for new technologies like LEDs
Sustainability

Meet needs for today and tomorrow.

• Simpler devices with less materials (no AC-DC conversions)
• Enable re-use of system devices
• Reduce energy consumption through advanced controls and solid-state lighting
• Facilitate the direct connection to alternative energy sources like wind, solar and fuel cells
• Improve energy efficiency through integrated load and source management
Savings

Reap rewards for decades to come.

- Lower reconfiguration costs with plug and play devices to get back in operation sooner
- Allow facility teams to quickly and safely move or re-install devices
- Reduce technology upgrade costs with this future-ready DC platform
- Optimize various types of electrical energy use for better control, metering and demand reduction
Current Members

Leaders in power, lighting, sensors, controls, and interior infrastructure.

Armstrong®

Johnson Controls

CEILING SYSTEMS

Nest Power Systems Inc.

OSRAM SYLVANIA

WAVE

WORTHINGTON ARMSTRONG VENTURE
Current Members

Leaders in power, lighting, sensors, controls, and interior infrastructure.

![Banner with company logos]
Current EMerge Activities

A DC-powered platform for commercial interiors.

- EMerge Standard released for comment
- Advisory Council formed
- Member recruitment
- Demonstration sites
- Conference presentations
- Launching word of mouth campaign
See For Yourself….

An EMerge demonstration in our LIGHTFAIR booth

- A dimmable LED downlight fixture using a SYLVANIA DLM 1100 module
- A recessed downlight with SYLVANIA DULUX® T/E compact fluorescent lamp and QUICKTRONIC® 24Vdc input electronic ballast
- A dimmable LED based cove light fixture using SYLVANIA HF² Narrow Stick modules
- Dimmable LED based track mounted fixtures with SYLVANIA HF² Flood modules
- All fixtures controlled by SYLVANIA elogic® wireless dimmers, control switches and wireless, batteryless wallbox controls