

North America

**Sony North America Headquarters  
Rancho Bernardo, CA, USA**



- 455,000 square foot, 11-story office tower with attached 6-story parking structure that includes a fitness center and basketball courts on the 6th level
- HVAC control and integration of all building systems with built-in energy savings
- LONMARK certified programmable (43) and configurable controllers (470)
- Web-based EC-Net<sup>AX</sup> system
- Integrates a number of energy efficient control strategies and green elements in its infrastructure and building processes
- Building is LEED Gold Certified

**St. Vincent Health System  
Arkansas, USA**



- Campus of 4 medical centers, 1 medical office plus a region-wide network of clinics
- 4700 points with 517 LONMARK Certified programmable and configurable Controllers
- Web-based EC-Net<sup>AX</sup> system
- St. Vincent Health System estimates a savings of over \$1 million annually since the start-up of the retrofit (2002).
- Read complete case study [here](#)

**Hilton San Diego Bayfront  
San Diego, CA, USA**



- High rise hotel with 1190 guest rooms plus 165,000 sq.ft. meeting space
- 2854 points with 385 LONMARK Certified programmable and configurable controllers
- EC-Light, LONWORKS lighting solution, used for exterior lighting control.
- Web-based EC-Net<sup>AX</sup> system
- Savings of 20 per cent in installation and commissioning costs
- Read complete case study [here](#)

**1120 Vermont Avenue, NorthWest  
Building  
Washington, DC, USA**



- 150,000 sq ft, 12-story office building
- 700 LONMARK Certified programmable controllers
- Lonwatcher network management tool
- Read complete case study [here](#)

**Connolly Middle School  
Tempe, AZ, USA**



- 112 LONMARK Certified controllers including programmable, VAV and Roof top unit control
- Lonwatcher network management tool
- Obtained Arizona Governor's Award for Energy Efficiency for 2005
- Read complete case study [here](#)

**Spa Terra, Meritage Resort  
Napa, CA, USA**



- 22,000 sq ft spa center located underground in the resort's Estate cave
- LONMARK Certified Programmable controllers, communicating thermostats and EC-Display HMIs
- Lonwatcher network management tool

**Trinity International University -  
Residence Hall  
Deerfield, IL, USA**



- LONMARK Certified programmable controllers and communicating thermostats
- Web-based EC-Net<sup>AX</sup> system

**633 17th Street  
Denver, CO, USA**



- 32-story office building
- 2,000 points with 700 LONMARK Certified programmable and VAV unit controllers

**2100 Pennsylvania Avenue, NW  
Washington, DC, USA**



- 297,000 sq. ft. 2-wing building with office space and a permanent healthcare center
- 1500 points with LONMARK Certified programmable controllers
- Web-based EC-Net<sup>AX</sup> system

**Charles Wayne Properties  
Daytona Beach, FL, USA**

**NOVO-CENTRO  
Santo Domingo, Dominican Republic**

**Quebec Biotechnology Center  
Laval, Quebec, Canada**



- 121,000 sq ft, 10-story office building
- 34 LONMARK Certified programmable controllers - 30 with HOA
- 50 LONMARK Certified configurable controllers - ECC-VAV and EC-Stats
- Monthly energy consumption reduced by 50% during winter
- Projected savings of 25-30% during summer
- Lonwatcher network management tool



- New corporate and commercial 18 floor building composed of fourteen office levels each measuring 13,000 square feet, and a 2-level shopping mall occupying approximately 130,000 square feet
- Features a distinct trapezoidal form and a unique crystal facade designed to tame solar light, protect the building's interior, and aid energy efficiency
- LONMARK Certified programmable controllers and remote I/Os (Phase 1)
- Web-based EC-Net<sup>AX</sup> system
- Easy to use and maintain system provides energy efficiency and optimum occupant comfort



- 27,000 sq ft laboratory and office space
- Integrated HVAC, laboratory control and lighting
- 90 LONMARK Certified programmable controllers
- Lonwatcher network management tool
- Londisplay GUI
- Read complete case study [here](#)

**Rio Tinto Stadium  
Sandy, UT, USA**



- 20,000 seat state-of-the-art sports and entertainment facility and home of Major League Soccer's Real Salt Lake City soccer club
- Amenities include 32 luxury suites, a 2,000-square foot Stadium Club, 1,000 premium club seats, and five locker rooms
- 985 points with 63 ECC-VAV LONMARK Certified configurable controllers and 21 EC-STAT-HP Communicating Thermostats
- Web-based EC-Net<sup>AX</sup> System provides energy efficiency and optimal spectator, athlete, and staff comfort

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South America

**PRESTO LTDA.  
Santiago, Chile**



- Supermarket Chain
- LONMARK Certified Programmable and VAV unit controllers
- Londisplay GUI

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Europe

**Deventer Hospital  
Deventer, Netherlands**

**Dockworks Business Park  
Rotterdam, Netherlands**

**OS3 Office Buildings  
Oslo, Norway**



- 65,000m<sup>2</sup> hospital complex
- Over 36,000 points with 3,000 LONMARK Certified VAV unit controllers



- 4 office buildings with centralized management
- 2,000 points with LONMARK Certified programmable, VAV unit controllers and LONWORKS EC-Displays HMI's
- Lonwatcher network management tool



- Multi-building complex with 350 offices
- LONMARK Certified programmable controllers and wireless battery-less solution
- Web-based EC-Net<sup>AX</sup> system

**Stortinget T-Bane Station  
Oslo, Norway**



- Underground subway station
- LONMARK Certified programmable controllers
- Web-based EC-Net<sup>AX</sup> system

**Ibsenkvartalet Offices  
Oslo, Norway**



- 4 buildings with 1,450 tenant offices, 8-10 stories with up to 2 additional indoor parking floors
- 150 LONMARK Certified programmable controllers
- Web-based EC-Net<sup>AX</sup> system
- 1998 awarded the National Architectural Prize and the Harald Sundt prize for outstanding architecture

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Middle-East

**Majdouie Group Headquarters and  
Hyundai Complex  
Dammam, Saudi Arabia**



- Complex composed of one office tower, showrooms and 3 workshop buildings
- 650 points with LONMARK Certified programmable controllers and communicating thermostats
- LONWORKS lighting solution, EC-Light
- Web-based EC-Net<sup>AX</sup> system

**Karawan Towers  
Al-Khobar City, Saudi Arabia**



- 2 office building towers of 10 floors
- Integrated building automation including HVAC, lighting, CCTV
- 1,000 points with LONMARK Certified programmable controllers
- Web-based EC-Net<sup>AX</sup> system

**Al Gurg Tower  
Dubai, U.A.E.**



- 17-floor tower, covering 150,000 square feet, and serving as the headquarters for the Easa Saleh Al Gurg Group
- Retrofit of building automation system and commissioning of asset management and energy management solutions
- Three EC-BOS-6<sup>AX</sup> Web building controllers with 21 programmable and 23 configurable LONWORKS controllers for operating and monitoring VAVs, chillers, AHUs, FCUs, pumps, and fans
- Web-based EC-Net<sup>AX</sup> building management system allows for the remote, real-time monitoring and control of building equipment
- Integrated five energy meters over Modbus into the new building management system
- Automated equipment and global scheduling has resulted in system-wide optimization of energy consumption and improved facility performance

Real-time monitoring of energy meters and building load variations allowed for continuous optimization of energy saving strategies in the first year of the retrofit, resulting in significant energy savings compared to the previous year

#### Air Traffic Control Complex Abu Dhabi



- New construction of Air Traffic Control Complex for Abu Dhabi International Airport
- Integrated building automation system including control and monitoring of HVAC and exhaust ventilation, chiller plant and chilled water pumps control, fire and safety, water treatment, automatic doors, elevators and more...
- 800 control points with LONMARK Certified programmable and configurable controllers
- Web-based EC-Net<sup>AX</sup> system

#### City Tower Doha, Qatar



- 36 floor office building located in the centre of Doha's financial hub, Dafna
- Integrated building automation including HVAC, lighting, fire alarms, electrical equipment
- Control and monitoring of over 4,000 points
- 265 LONMARK Certified LONWORKS DDC controllers (programmable and configurable)
- LONWORKS EC-Light lighting control solution
- Web-based EC-Net<sup>AX</sup> system

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### Australia

#### Melbourne University, Bio 21 Research Facilities Melbourne, Australia



- Two 6-story buildings and atrium
- LONMARK Certified programmable controllers
- Read complete case study [here](#)

#### Perth Airport Domestic Terminal Perth, Australia



- 400 points with LONMARK Certified programmable and VAV unit controllers
- Lonwatcher network management tool and Londisplay GUI
- Read complete case study [here](#)

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### Asia

#### Cloud Nine Shopping Center Shanghai, China



- 350,000 m<sup>2</sup> 65-story shopping center
- 4,400 points with LONMARK Certified programmable controllers for HVAC and lighting applications
- Lonwatcher network management tool and Londisplay GUI

#### Seoul Arts Center Seoul, Korea



- 1,000,000 sq ft cultural complex with five buildings
- 1,340 points with 72 LONMARK Certified programmable and configurable controllers

#### Homever Market ChunAn and Homever Market JunKye Korea



- Retail chain with buildings of 8 stories, 200,000 sq ft
- 550 points each with 22 LONMARK Certified programmable controllers
- Lonwatcher network management tool

**Junction Square  
Yangon, Myanmar (Burma)**



- 4-storey shopping center
- 300,000 square feet of retail space, built on nine acres
- Tenants include retail shops, banks, a health and wellness center, and three mini theatres
- 50 LONWORKS ECP Series programmable controllers and over 1,000 control points
- Web-based EC-Net<sup>AX</sup> system integrates HVAC and lighting control, utility monitoring, and multiple environmental sensors
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