What is a Next Generation / Intelligent Building?

- Design
    - Energy efficient design (LEED)
    - Complete building modeling
    - Focus on building circulation and Feng Shui
    - Common spaces for networking
    - Integration with transportation and surrounding community
- Construction
    - Sustainable construction practices
    - Electronic project documentation
    - Modeling extended into construction
- General
    - Tenant amenities
        - Concierge
        - Shopping
        - Restaurants
        - Lodging
    - Optimized vertical transport
    - Personal comfort control
        - Temperature
        - Humidity
        - IAQ
        - Lighting
        - Acoustic
- Networking / Telecom
    - Common network infrastructure
    - Structured – maintainable cabling
    - Wifi
    - VOIP
    - Digital signage
- Security / Life Safety
    - Digital video monitoring
    - Access control and monitoring
    - Automatic fire suppression
    - Fire detection and alarm
    - Egress support (lighting, signage, smoke control, etc.)
    - Contaminant monitoring and containment
    - Proximate security / guard services
- Mechanical
    - Energy efficient equipment
    - Thermal storage

w w w . b u i l d i n g - i n t e l l i g e n c e - g r o u p . c o m

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P a u l @ E h r l i c h . c o m

- o Combined heat and power
- o Controls optimization
  - Extensive sensing
  - Energy efficiency
  - Indoor air quality
  - Comfort monitoring
  - Internet enabled controls
  - Enterprise integration
  - Water and gas metering / sub-metering
- Electrical
  - o Energy efficient lighting
  - o Lighting control
  - o Distributed generation
  - o Dual power feeds / emergency power
  - o Power quality monitoring
  - o Sub-metering / billing
- Operational
  - o Integration of all systems
  - o Remote operations and optimization
  - o Tenant portals
  - o After hours operation
  - o Maintenance management and dispatch
  - o Energy information and management systems
  - o Real time energy response
  - o Continuous comfort monitoring and feedback