Session II

Envision a Smarter Greenville and Upstate

November 30, 2015

Urban Infrastructure: An Approach for Sustainable Economic Development

Schneider Electric

Simply Smarter
Smart
POTATOES™
with Pro-Health's Pure Wash System
RUSSET POTATOES
the difference!

“A smart city is characterized by the integration of technology into a strategic approach to sustainability, citizen well-being, and economic development.”

-Navigant Research, A leading market research group

What drives cities to become smart?

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Cities must become smarter

a smart city strategically approaches technology with emphasis on sustainability, efficiency, and liveablity

Efficient

- Better information sharing
- Improved resiliency to disruptions
- Increased control over city systems

Sustainable

- Reduced Carbon emissions and energy consumption
- Operational cost savings
- Decreased need for massive infrastructure investments

Liveable

- Higher quality of life for city residents
- Increased attractiveness to jobs & talent
- Increased global competitiveness

Environmental Sustainability & Resiliency:

What is Included? Solutions for cities' challenges; solutions to seize new opportunities

Smart Energy

- Smart Grid Automation & Flexible Distribution
- Smart Metering Management & Demand Response
- Renewables Integration & Micro Grid
- Street Lighting management
- Gas Distribution Management

Smart Mobility

- EV Charging Infrastructure & Supervision Services
- Traffic Management
- Integrated Mobility
  - Public Transit
  - Traveler Information

Smart Water

- Distribution Management & Leak Detection
- Power, Control & Security Systems integration
- SCADA and Telemetry Software
- Stormwater management and Urban Flooding

Smart Public Services

- Public Safety
  - Video Surveillance
  - Emergency management
- Digital Services
  - Tourism
  - Retail Applications
- Access Control
  - Key Card
  - Retail Card
  - User Profile Management

Smart Buildings & Homes

- High-performance Buildings
  - Energy Efficiency & Security solutions
  - Energy Services
- Efficient Homes
  - Home Energy management
- Connection to the Smart Grid

Smart Integration

- Power, Security, Building, IT, & Process Management Systems integrated Architecture
- Integrated Management Platform
- Security Systems & Management
- Energy & Environment Management Information System
- Weather Intelligence

Smart Collaboration & Development Services

- Technology, Systems & Infrastructure Planning & Design
- Technology, Systems & Infrastructure Contracting
- Technology, Systems & Infrastructure Operation & Optimization
- Sustainability Strategy & Advisory Services

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Engagement Model: Intelligent Integration

Intelligent Integration is an end to end (Charrette to Operation and Maintenance) oversight model that utilizes leading construction methodologies to execute projects turn-key. **The model takes priority on customer outcomes** as we co-create the business strategy with innovative clients.

The model incorporates themes and best practices of …

- Whole systems approach
- Integrated Project Delivery (IPD)
- Public-Private Partnering
- Long term Own, Operation & Maintenance Arrangements
- Power Purchasing Agreements (PPA) & Structured Leases

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And the Results…

Abundance of consumer choice, value-added services and game-changing development models lead to…

Significant Cost Advantages
(CAPEX & OPEX)

- ↓ Capital Expenditures go down
- ↓ Operational Expenditures for the Tenant go down
- ↓ Overall variable risks (utilities)

+

Quality of Life Factors + Site Selection Marketability

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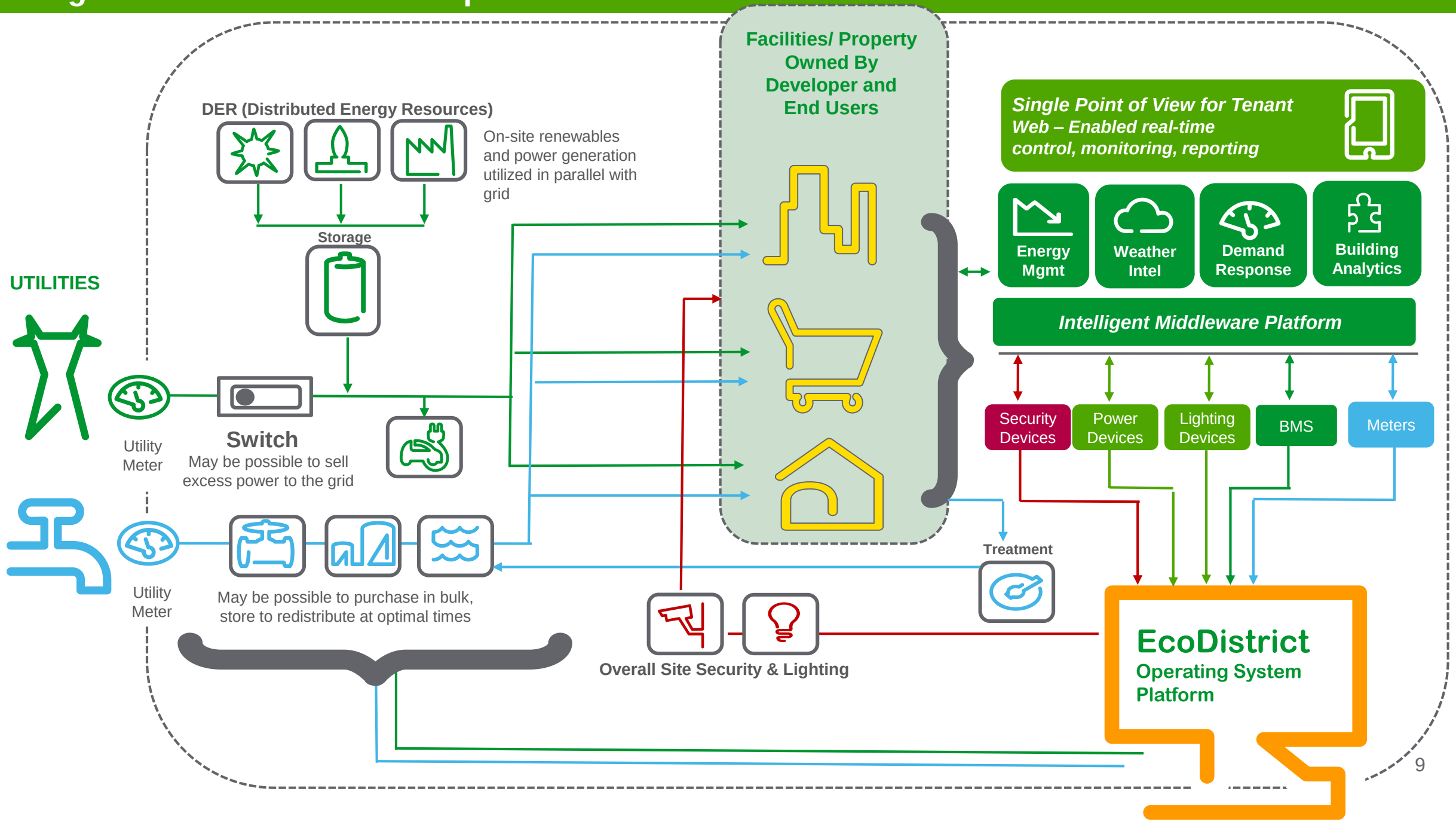
Intelligent Infrastructure - Example