Fujisawa SST and Pena Station NEXT Case Studies

ZNE BUILDINGS AND THE GRID – MORE EFFICIENT DISTRIBUTED ENERGY RESOURCES
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President - US Green Building Council (USGBC) Florida Chapter

USGBC National Board of Directors – 2007-2010

More than 100 LEED Certified projects

Net zero energy and water projects
Fujisawa Smart Sustainable Town

Turning failure into success
- 1000 home community
- Approximately 50 KM south of Tokyo
- First phase opened November 2014
Fujisawa SST – 5 Service Categories

Security

Mobility

Wellness

Community

Energy
  - Home energy management system
  - PV, battery and automated load shed
  - Visualization

+ Future co-creation
  - Wonder House
Fujisawa Smart Sustainable Town

Improve results through partnering

Exceeding expectations

- CO₂: 70%
- H₂O: 30%
- 30%
- 25%
Pena Station NEXT

Gateway to the west and beyond

- 400 acre transit oriented development
- First building opened September 12, 2016
- City solutions, apartment and hotel coming soon
Pena NEXT – 5 Pillars

City services & public safety

Transportation & mobility

Health & well being

Built environment
  ◦ Design guidelines require 30% energy improvement

Energy & utilities – phase 1a
  ◦ Micro-grid
  ◦ 2 MW of PV with 2 MWH battery storage

+ Future co-creation
Pena Station NEXT

Improve results through partnering

Goals
- Net positive energy phase 1a
- LEED Silver minimum
- Revising overall goals and incentives based on latest anticipated development mix