



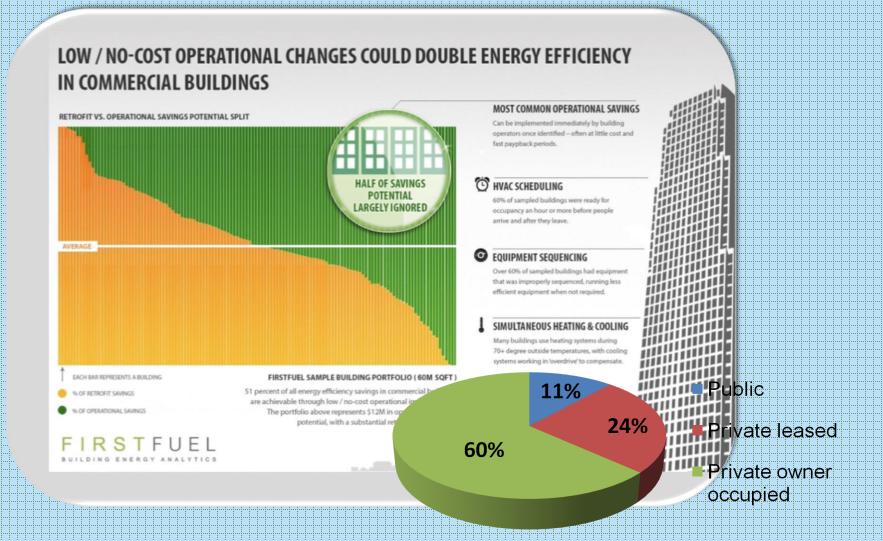








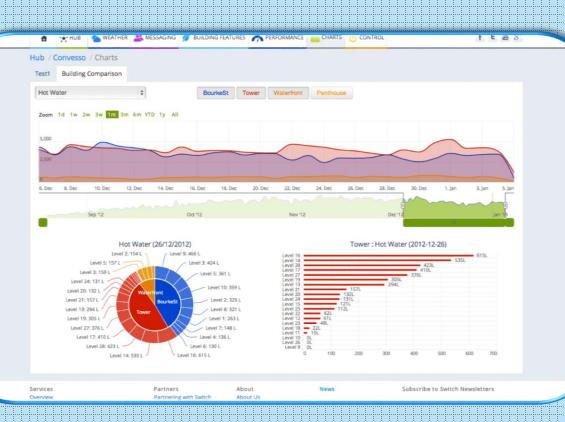
### Greening Existing Buildings: Energy



### Using Cloud to Manage Buildings

#### Intersection:

- Real Estate
- IT/Cloud
- Energy
- Sustainability



### Building Energy Management: Cloud-based • Real-time • Big Data Analytics

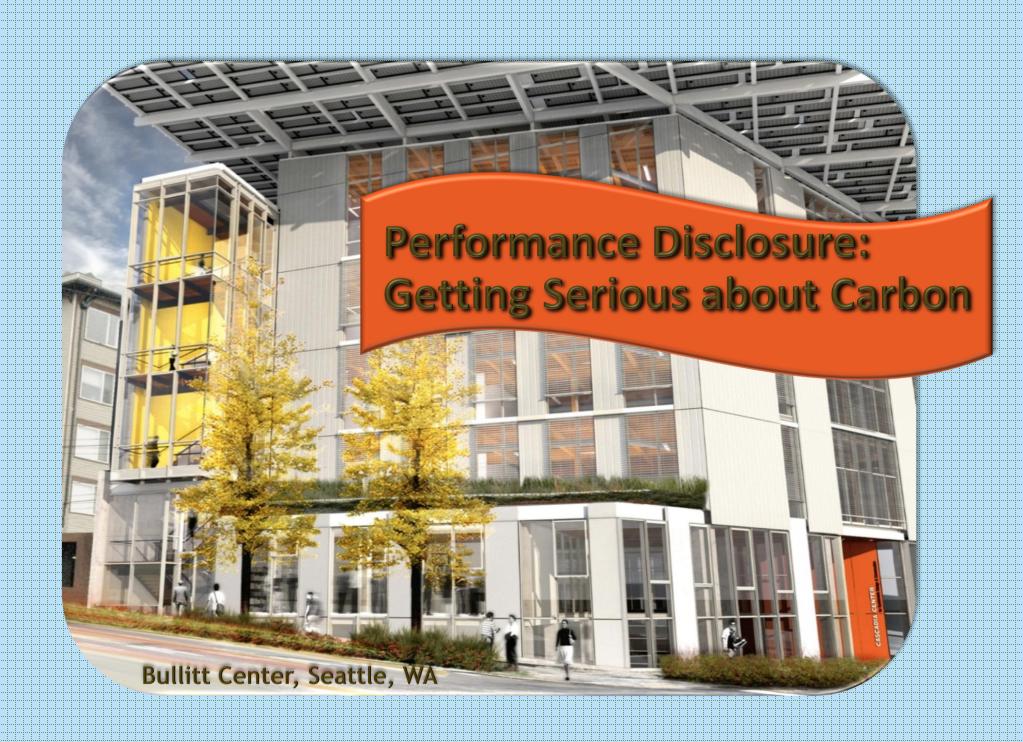
Switch Smart Hub

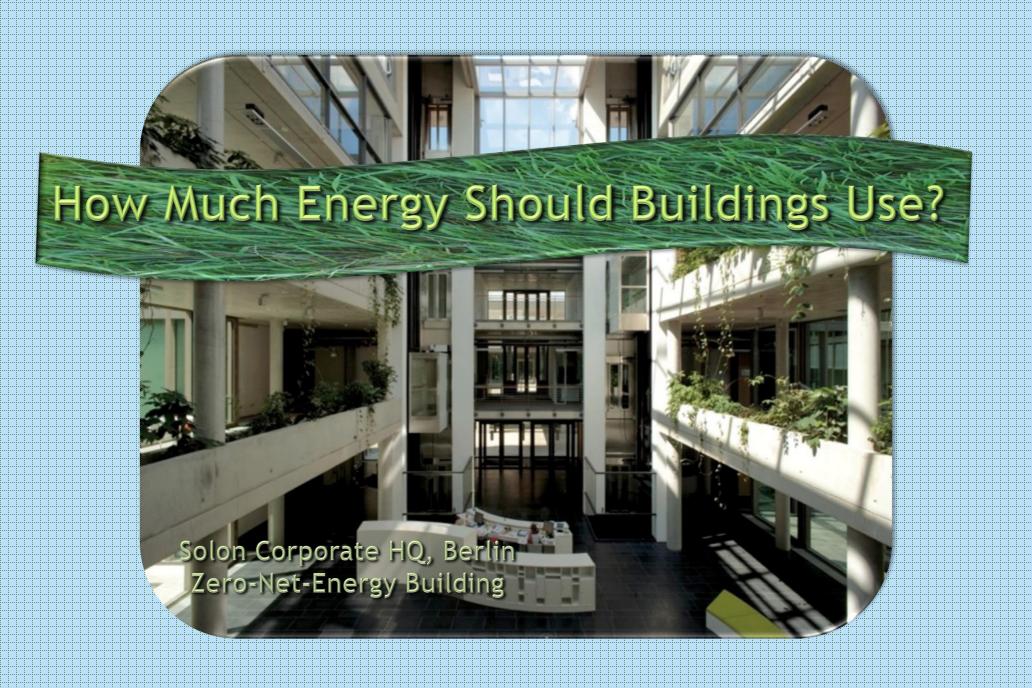
real time monitoring and control via Cloud

- Monitoring and control
  - Non-proprietary
  - All over IP
  - All in real time
  - All via Web
  - All Cloud-hosted
- Fault detection
- Set-point changes
- Sustainability reporting
- Investment decisions









### World's Greenest Buildings: Research





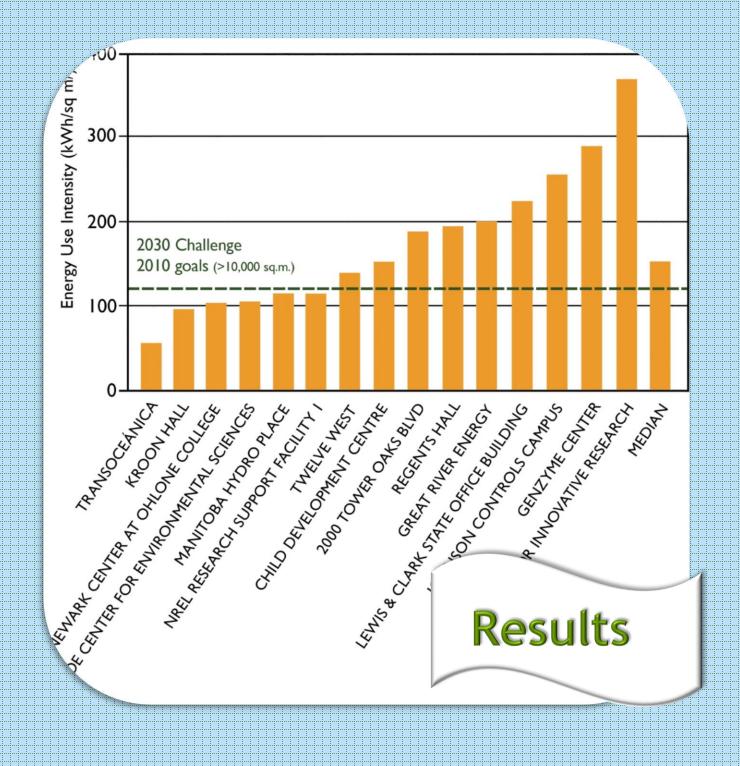
JERRY YUDELSON | ULF MEYER

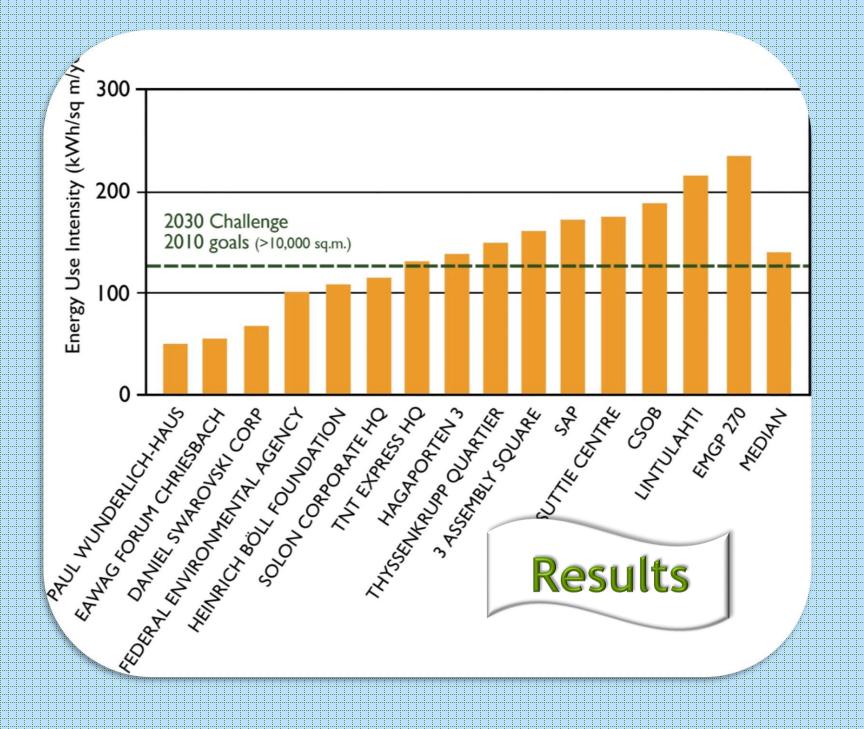
# THE WORLD'S GREENEST BUILDINGS

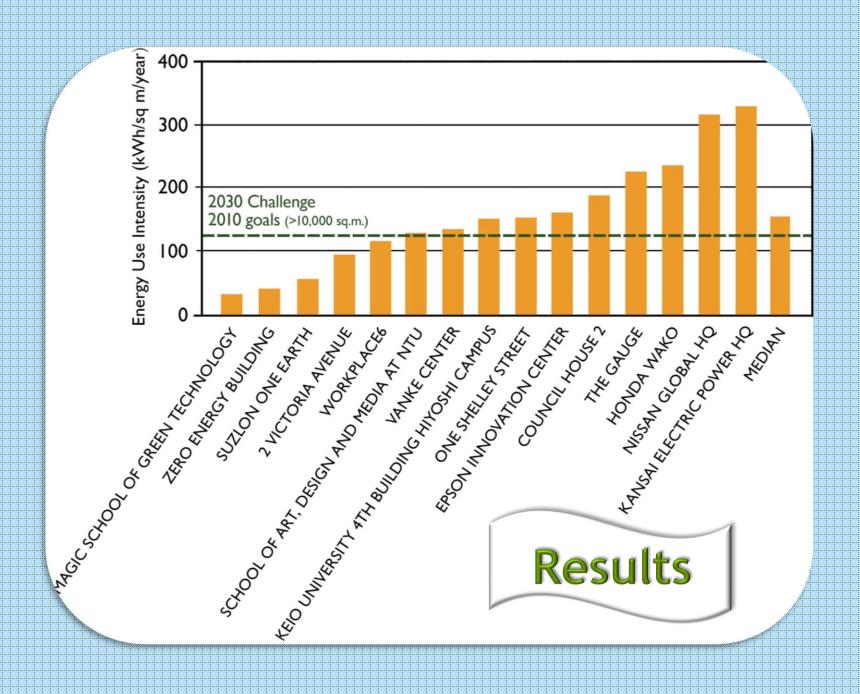
PROMISE VERSUS PERFORMANCE IN SUSTAINARIE DESIGN

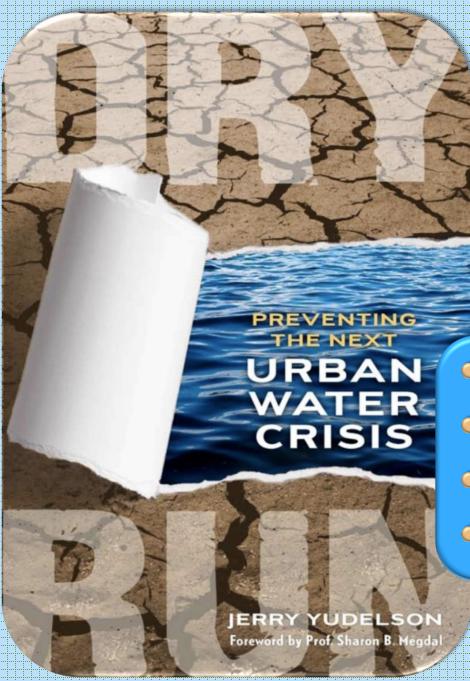
Foreword by Professor Alison Kwok











# Next Big (Green) Thing:

# 

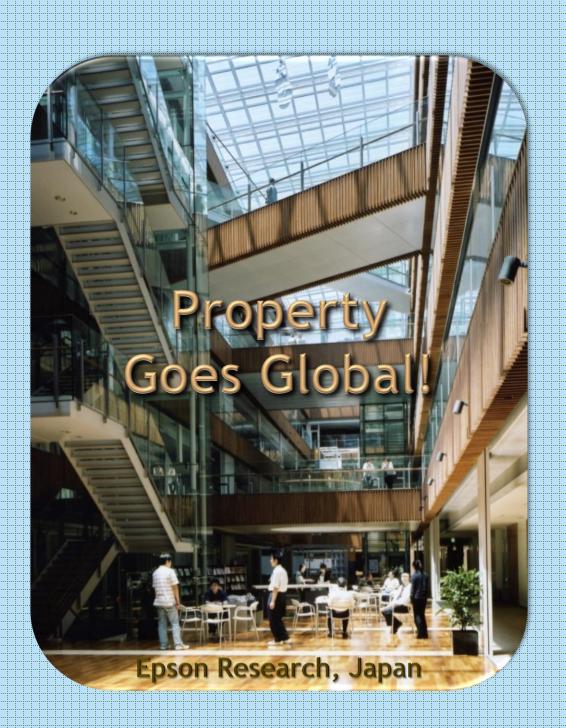
- Water/Energy Nexus
- New Products
- New Technologies
- Global Lessons

### Zero-Net-Energy-Buildings



### Solar Energy for Buildings









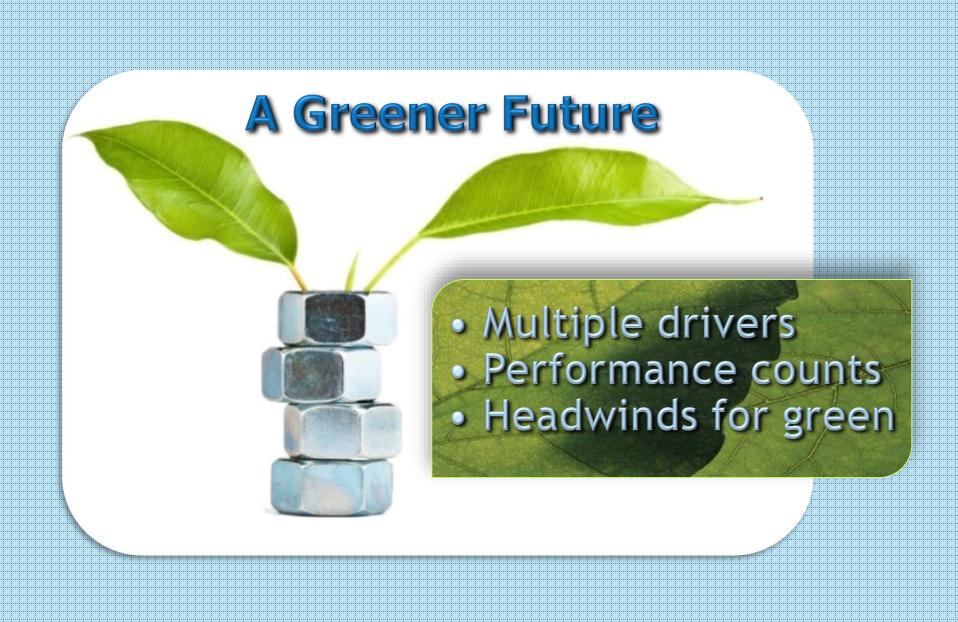




### Challenges Ahead

- Growth rate for green building certification has slowed dramatically in the US
  - Business case for green building still weak in most markets
- Focus has shifted to managing sustainability KPIs:
  - Energy/water/waste/purchasing?
  - Scope 1, 2, 3 carbon emissions
- New software tools must provide:
  - Lower costs

  - Actionable analytics/reporting











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