NAREIT 2017 Leader In The Light

Sustainable Real Estate Practices

Working Forum



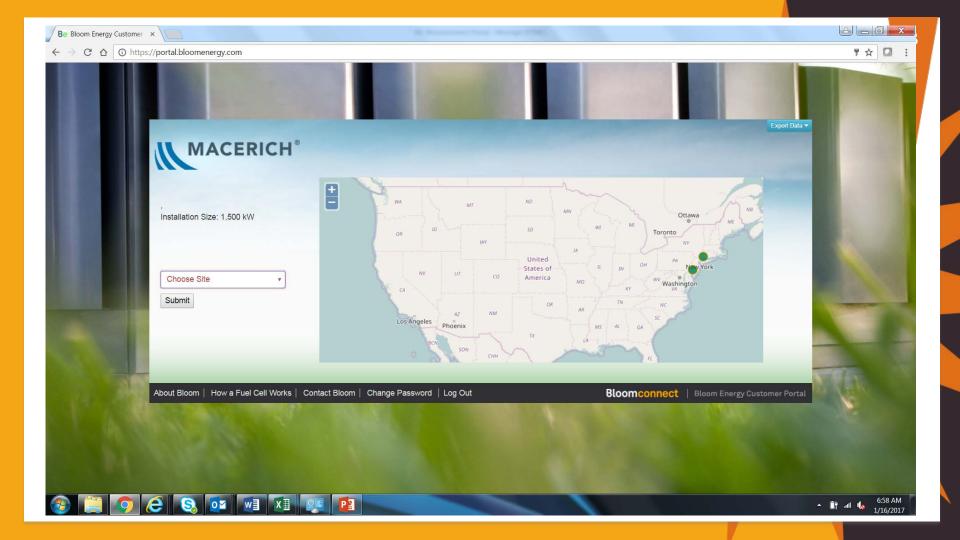




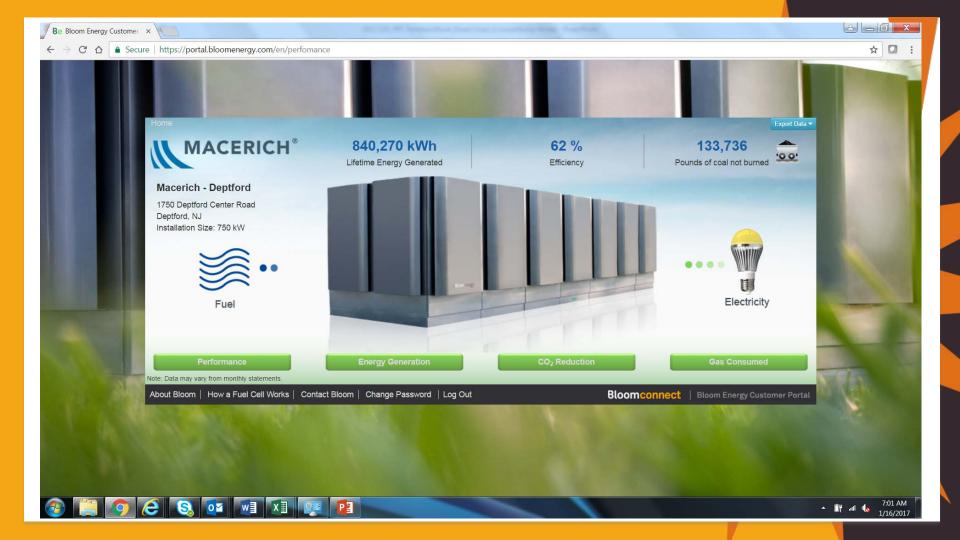
Jeff Bedell

Fuel Cell Program

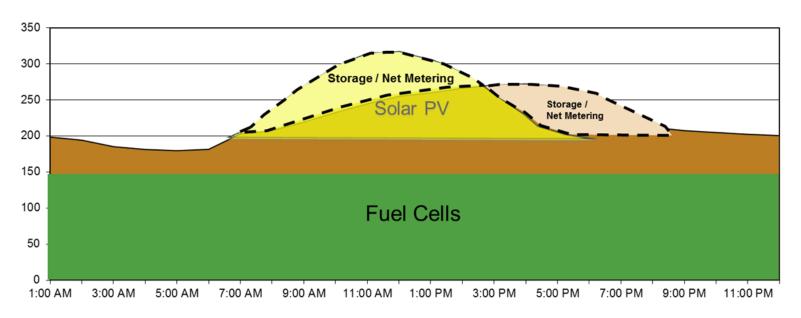
- ◆ 2014 Danbury Pilot 750KW as a PPA
- ◆ 2016 Executed 5 new projects (3.5 MW)
 - Owned through Lease structure over \$22mil
 - ◆ Average ROI 12% 17.4% (sensitivities: fuel, production)
 - Driven by Incentives and ITC
 - Minimal Technology Risk; Macerich taking the fuel risk
- ◆ 2017 assessing 6 additional projects over 5MW







Load Curve with Fuel Cells + Solar + Storage



- DG technologies can be sized respectively to match customer load curves
- Size solar and storage for peak of load curve
- Fuel cells with solar and storage provide peak islanding capability

Micro Grids at Retail Centers

- Key Advantages:
 - Operating cost savings
 - Long term pricing hedge
 - Redundancy and back-up
 - Local load shaping
 - Local dispatch, and emergency shelter

Questions

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Kelly Meissner

- ◆ First, identified an issue/goal...
 - Issues:
 - a) Large, complex portfolio
 - b) Limited visibility into portfolio-wide utility data
 - Goal: Improve data quality and aggregation process for sustainability and investor reporting
- ...and a solution:
 - Implement a sustainability software platform to consolidate all of Ventas' disparate utility data



"Here's a list of 100,000 warehouses full of data. I'd like you to condense them down to one meaningful warehouse."

- Conducted a request for proposal (RFP) process:
 - Cross-functional internal team (construction, asset management, IT)
 - > RFP requirements:
 - Utility data aggregation, analysis, verification
 - Sustainability survey submission and project management
 - Sustainability project tracking, measurement, and verification
 - ENERGY STAR ® interface
 - Technical requirements (per IT)

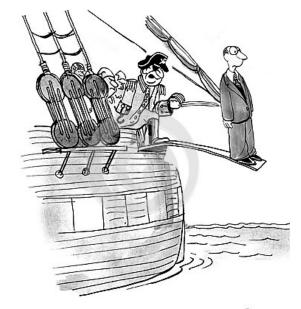
◆ Also considered:

- Ease of use/user interface
- Customer support
- Company history, experience, financials
- Price
- Customer feedback (informal)
- 'intangibles'

◆ RFP logistics:

- > 6 vendors evaluated
- Allowed 2 weeks for initial responses, followed by 2-hour Q&A/Demo sessions
- Several rounds of follow-up questions and discussions

- Obtained internal buy-in and approval
 - Financial benefit
 - > Business Process Improvement
 - Risk Mitigation / Regulatory Compliance
 - > Investor Relations Benefit
 - Stakeholder Engagement / Brand Benefit



"Do you accept my strategic recommendation now?"

Selected partner

- Evaluated each group and scored on a 1-3 scale against each RFP component, weighted for importance
- Also factored in price, customer feedback (informal), 'intangibles', etc.



"Of course we'll make a decision ...
once we have considered the 5243 factors."

◆ Takeaways

- If you are buying software, include IT early and often; also legal team if/when necessary (for contract)
- Get internal buy-in; make a strong, thoughtful case
- Don't get sucked in by a sales pitch
- Talk to existing customers (as many as possible), but better if it's not the client references provided by the vendor
- Ask lots of questions/follow-ups



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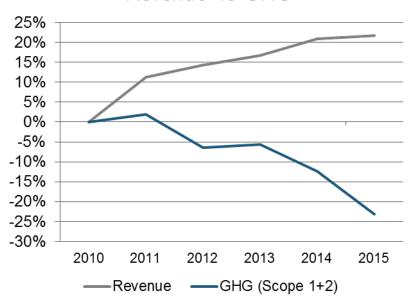




Michael Chang

Historical GHG Performance





- Revenue growth of 22% alongside a 23% decrease in GHG emissions over the past 5 years
- Met all 2017 environmental targets two years early

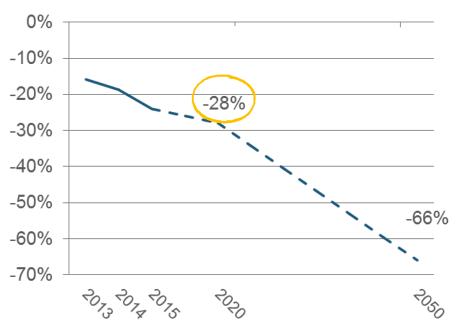
Science Based Target (SBT)

- ◆ GHG reduction targets that are in line with the level of decarbonization required to keep the average global temp increase less than 2°C
- Host is the first hospitality and real estate company to set a science based target



SBT - Methodology

GHG Reduction



- Sectoral Decarbonization
 Approach (SDA)
- Representative Concentration Pathways (RCPs) 2.6
- Linear pathway to a 66% reduction by 2050

SBT – Feasibility Analysis

- ◆ Energy ROI Projects
 - ◆ LED Lighting
 - Solar PV
 - ◆ Fuel Switching
 - ◆ In-room EMS
 - Remote monitoring and fault detection
- Maintenance capex
- Brand sustainability targets



Fairmont Kea Lani Solar Project

SBT – Additional Eligibility Criteria

Boundary

Must cover company wide Scope 1 and Scope 2 emissions

Timeframe

Must cover a min of 5 years to a max of 15 years from announcement

Level of ambition

Must be in line with at least the decarbonization required to keep global temps from increasing 2°C

Scope 3

Set an ambitious Scope 3 target if greater than 40% of total Scope 1, 2, and 3 emissions

Reporting

Disclose company-wide GHG emissions inventory on an annual basis

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WELL for Multifamily Pilot

Project Background



Location: Hollywood

Campus: LEED Master Site, LEED Gold Office/Retail

Units: 200

Type: Luxury

Previous Residential

Experience: 0!

WELL Team







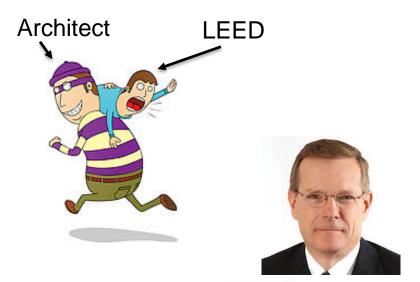


Architect





Why WELL?







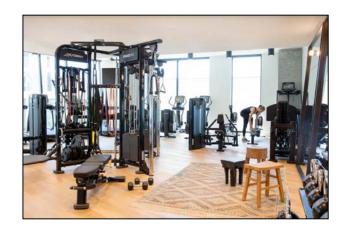




Timeline

- Project Design
- ◆ Construction 75% Complete
- Decision to pursue WELL
- Delos Consulting and Documentation
- Construction Complete
- Preliminary Delos Audit

- Building Alterations
- Additional IAQ Testing
- IWBI Performance Verification with WELL Assessor
- ◆Results ???















Takeaways











