



Sustainability on University Campuses

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Public Utility Research Center

Research

Expanding the body of knowledge in public utility regulation, market reform, and infrastructure operations (e.g. benchmarking studies of Peru, Uganda, Brazil and Central America)

Education

Teaching the principles and practices that support effective utility policy and regulation (e.g. PURC/World Bank International Training Program on Utility Regulation and Strategy offered each January and June)

Service

Engaging in outreach activities that provide ongoing professional development and promote improved regulatory policy and infrastructure management (e.g. in-country training and university collaborations)





The Body of Knowledge on Infrastructure Regulation

<p>NEW</p>	<p>NEW</p>	<p>NEW</p>	<p>RECENT ADDITION</p>
LEADERSHIP IN REGULATION	TRANSLATED GLOSSARIES	RENEWABLE ENERGY AND ENERGY EFFICIENCY	REGULATION OF STATE-OWNED ENTERPRISES

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 **UF** | Public Utility Research Center
Warrington College of Business Administration
UNIVERSITY of FLORIDA



University Sustainability

- Financial sustainability
- Environmental footprint



Financial Sustainability

- There is a significant infrastructure funding gap in the U.S., which extends to Universities
- UF's current gap is approximately \$30 million per year



Strategies for Addressing Gap

- Split incentive problem is energy efficiency investment can be applied to Universities
- Little connection between how energy is consumed and how it is paid for
- Management choices
 - Incentives
 - Direct control



Environmental Footprint

- In Florida, UF is looking into greater opportunities in distributed solar
 - Physical installations
 - Virtual PPAs



Distributed Solar

- Solar panels installed in conjunction with new parking garage
 - Net metering in Florida, but consumption may avoid demand charges as well as energy charges
 - Demand charges constitute 20% of UF's electricity bill



Virtual PPAs

- Florida remains vertically integrated, so the only PPA available to UF is a virtual one

Renewable Energy Credit

Wholesale Price of Electricity

+ Fixed Price PPA

Net Benefit of PPA



Virtual PPA Considerations

- Location of the PPA project is critical
- Buyer assumes all wholesale price risk
- Differences in project valuation



Considerations

- Universities have more tools than ever to meet sustainability goals
- Greater flexibility comes with a price



Questions?

Thank You

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