

Sustainability
Facilities Subcommittee for
Planning, Budget, and Integration
Management

Overview

- Prop. 39 – Funding for energy retrofit and training
- Potential Energy-Efficiency Projects
- Recommended Project Priority: MBCx
- MBCx

Proposition 39

- Energy Efficiency Funding & Training
- Allows
 - Retrofit and curriculum
 - Technical assistance for project feasibility study
- \$5,000,000 aggregate
- \$1,000,000 per year for 5 years

Prop. 39 Project Requirements

- Project documentation, costs, project savings
- Total benefits exceeding project cost over time
- Measurement and Verification
- In-state job creation and energy benefits

Potential Projects to Consider

- Monitoring Based Commissioning (MBCx)
- Lighting upgrade (possibly LED)
- HVAC efficiency upgrade
- ICLC
- Solar photovoltaic
- Fuel cell technology

MBCx: What is it?

- Equipment optimization
- Continuous monitoring
- Web-based interface
- Phases:
 - Survey/Audit
 - Design
 - Implementation
 - Monitoring

Why MBCx?

Need to know our buildings' performance

- o 71 permanent structures
- o 50 portable spaces
- o 50 more to be added
- Web-based report of electricity, gas, and, hopefully, water
- Measurement & Verification for Prop. 39

Funding Sources for MBCx

- \$20,000 in technical assistance via rebates
- \$0.24 per kW rebate via rebate from CCC/IOU
- Rebate cap: 80% or project cost
- \$554,575 ($\$1,680,529 \times 0.33$)
- Remaining funds from solar photovoltaic projects

Benefits of MBCx

- Reduce resource usage
- Manage resources
- Save money
- Optimize equipment operations
- Benchmarking
- Competition among buildings

MBCx: Where to Start?

- One campus at a time
 - Why?
- Selected buildings on all four (4) campuses
 - Why?

Summary

- Prop. 39
- \$5,000,000
- Energy-efficiency retrofits & training
- Requirements
- Energy-efficiency, cost benefit, local jobs, measurement & verification
- Potential projects: MBCx, HVAC, Lighting Upgrade, ICLC, Fuel Cell, Solar Photovoltaic
- Recommended Project: MBCx
- MBCx description and benefits to the District

Conclusion

- Recommended Project: MBCx
 - Beneficial to District
 - Access to Prop. 39 Funding
- Questions?
- New information?
