



**Rancho Santiago Community College District**  
**Sustainable RSCCD Committee**

**February 19, 2014**

**District Office**

**Decision Room - #340**

**3:00 – 4:00 p.m.**

**Agenda**

- |   |               |
|---|---------------|
| 1. Update on Sustainability Plan Development Process        | Matsumoto/NAM |
| 2. 2014 CA Higher Ed Sustainability Conference – June 16-20 | Rodríguez     |
| 3. Prop 39 Projects Update                                  | Matsumoto     |
| 4. Subcommittee Structure                                   | Rodríguez     |
| 5. Other  |               |

**Next Meeting:**

March 19, 2014

3:00 p.m.

District Office – Decision Room #340

**Mission Statement**

The mission of the Rancho Santiago Community College District is to provide quality educational programs and services that address the needs of our diverse students and communities.

The mission of Santa Ana College is to be a leader and partner in meeting the intellectual, cultural, technological, and workforce development needs of our diverse community. Santa Ana College provides access and equity in a dynamic learning environment that prepares students for transfer, careers and lifelong intellectual pursuit in a global community.

Santiago Canyon College is an innovative learning community dedicated to intellectual and personal growth. Our purpose is to foster student success and to help students achieve these core outcomes: to learn, to act, to communicate and to think critically. We are committed to maintaining standards of excellence and providing accessible, transferable, and engaging education to a diverse community.



**Sustainability Plan  
Proposed Work Plan Details**

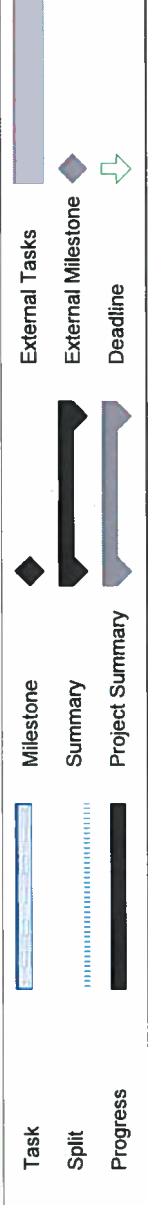
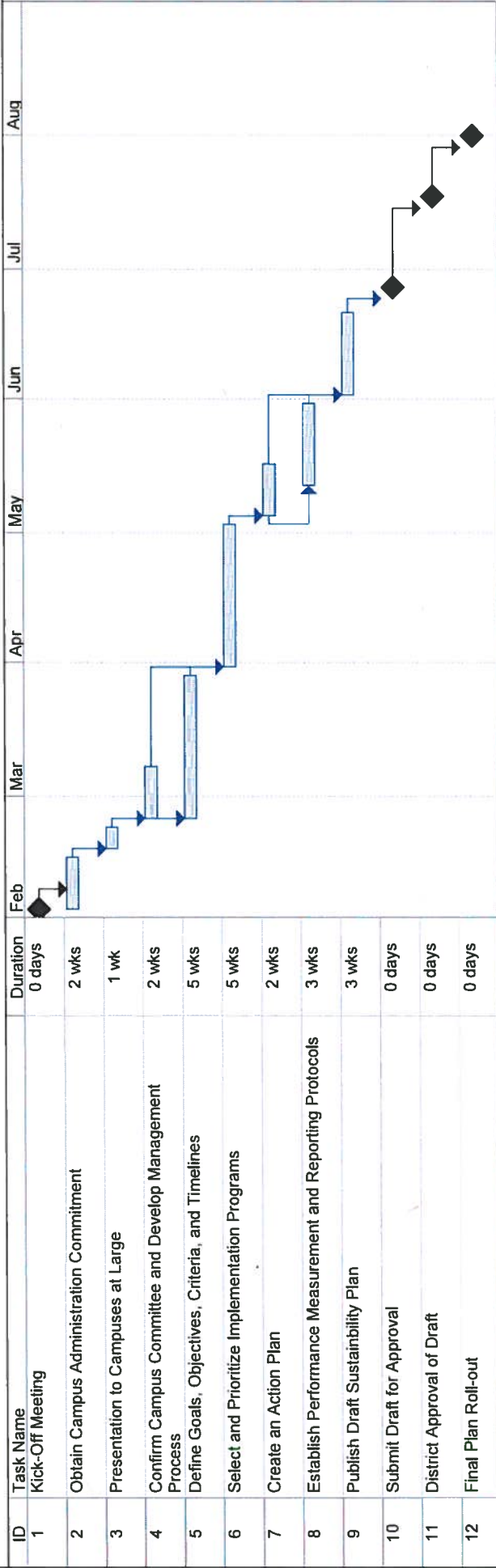
Task No.	Task Description	Guidebook Reference	Action Items	Process and Deliverables	Primary Responsibility	Assisted By/Other Participants
1	Kick-Off Meeting – Steering and College Committees	Section 2	NAM coordinate meeting and prepare materials	<ul style="list-style-type: none"> <li>Review and Finalize Work Plan and Schedule</li> <li>Adopt Vision Statement</li> </ul>	NAM	College Sustainability Committee
2	Obtain College Administration Commitment	Section 2	District / NAM prepare Resolution Language for President/BOT consideration	<ul style="list-style-type: none"> <li>Resolution from President and/or BOT committing to implementing the Sustainability Plan and adopting the Vision Statement.</li> </ul>	District	NAM
3	Presentation to College at Large	Section 7.11 and 9.3	NAM develop PowerPoint presentation in collaboration with College Committee to introduce College Community to the Template and Sustainability Planning process	<ul style="list-style-type: none"> <li>Prepare PowerPoint Presentation describing Template and Sustainability Planning Process</li> <li>Deliver presentation to College Community at a workshop</li> <li>Solicit feedback and identify additional participants</li> </ul>	NAM	College Committee
4	Confirm College Committee and Develop Management Process	Section 4	Finalize selection of College Committee and development of the management process to develop the Sustainability Plan	<ul style="list-style-type: none"> <li>Confirm or Recruit Members</li> <li>Establish Roles &amp; Responsibilities</li> <li>Establish Governance Structure</li> <li>Develop Management Process for Plan</li> <li>Establish Communications Plan</li> <li>Appoint Chair</li> </ul>	NAM	College Committee
5	Define Goals, Criteria, and Timelines	Section 5	NAM to lead a discussion with College Committee to develop Goals, Criteria, and Timelines for Sustainability Plan.	<ul style="list-style-type: none"> <li>Confirm Vision Statement</li> <li>Identify Existing Goals &amp; Master Plan Objectives Related to Sustainability</li> <li>Review Best Practices and Guidebook Section 7 to glean ideas for Goals</li> <li>Assess Current and Past Sustainability Efforts</li> <li>Identify College Priorities and Limitations</li> <li>Define Goals &amp; Objectives for Plan</li> <li>Define Criteria for Success</li> <li>Establish Implementation Timeline</li> </ul>	College Committee	NAM
6	Select and Prioritize Implementation Programs and Projects	Section 7 and 10	NAM to lead a discussion with College Committee to review potential Programs and Projects from Section 7 and Best Practice Case Studies from Section 10 and develop a preliminary list of actions.	<ul style="list-style-type: none"> <li>Review Potential Programs and Projects from Section 7</li> <li>Review Best Practice Case Studies (See Section 10)</li> <li>Select and Prioritize Projects for Implementation based on Goals, Objectives, Criteria</li> <li>Establish Preliminary List of Projects for Implementation</li> <li>Assign a Main Contact/Person Responsible For Each Project</li> </ul>	College Committee	NAM
7	Create an Action Plan	Section 8	NAM will prepare Action Plans which will include the Implementation Checklist and Sustainability Plan Document Template. Committee will assist and ratify.	<ul style="list-style-type: none"> <li>Refine Preliminary Project List and Task List</li> <li>Perform Preliminary Cost Analysis for each Selected Project - perform additional screening based on costs</li> <li>Review Available Resources to assist with Project Implementation (Section 11, Appendix B)</li> <li>Identify Funding Sources (Section 6)</li> <li>Perform Outreach to Surrounding Communities/Agencies for possible information, resources, synergies</li> <li>Utilize Implementation Planning Checklist (Guidebook Appendix E) to create and document Action Plan</li> <li>Assign responsibilities, identify costs and resources, define timing for each Program and Project</li> </ul>	NAM	College Committee

**Sustainability Plan  
Proposed Work Plan Details**



Task No.	Task Description	Guidebook Reference	Action Items	Process and Deliverables	Primary Responsibility	Assisted By/Other Participants
8	Establish Performance Measurement and Reporting Protocols	Section 9	NAM will develop Performance Measurement and Reporting Protocols, with Committee assistance.	<ul style="list-style-type: none"> <li>Confirm the Criteria for Success defined in Task 5</li> <li>Establish Baselines for Performance Measurement</li> <li>Establish Performance Metrics</li> <li>Evaluate Utilization of Potential Sustainability Ranking Systems</li> <li>Develop Reporting and Communications Plan to College Administration and Community-at-Large</li> </ul>	NAM	College Committee
9	Publish Draft Sustainability Plan and Submit for Approval	Section 8	NAM will prepare and finalize Sustainability Plan documents for submittal to college administration for approval.	<ul style="list-style-type: none"> <li>Final Approval for each college Sustainability Plan from College Administration</li> <li>Present Final Plan to College-at-Large</li> </ul>	NAM	College Committee

**Rancho Santiago CCD  
Sustainability Plan Development Schedule  
January 15, 2014**





**RANCHO SANTIAGO**  
Community College District

## PROP 39 PROJECT HIGHLIGHTS



Sustainable RSCCD  
Committee Meeting  
02/19/14



**SANTA ANA**  
COLLEGE



**Santiago**  
Canyon  
College



## BACKGROUND

- ❖ Proposition 39: CA Clean Energy Jobs Act passed November 2012
- ❖ In 2013-2014 Budget proposed \$51 million to community colleges to support energy efficiency projects and workforce development training.
- ❖ Potentially 4 years of additional funding may be available
- ❖ RSCCD offers educational programs in 8 locations accounting for 1,251,353 sq. ft.
- ❖ Districtwide usage is approximately 15 million kWh/yr
- ❖ Approx. \$2,000,000/annually at a blended rate of about \$.14/kWh
- ❖ Prop 39 Implementation Guidelines October 2013
- ❖ Partnerships with CCCCO-District-Utilities



## PROP 39 PROJECTS

### Year 1

- SAC: LED Lighting Upgrade (interior and exterior)
- SCC: Science Building Retro-Commissioning
- Projects Bundled/Batched together to meet Savings Investment Ratio (SIR)
- Total Allocation to District: \$1,017,539



## SAC LED LIGHTING UPGRADE

### Project Summary:

- ▶ Replace fluorescent and incandescent lights with LED retrofit kits for all applicable interior lights and replace exterior parking lights with new LED fixtures.
- ▶ Approximately 14 buildings interior lights
- ▶ Exterior replacement of high pressure sodium and metal halide fixtures in 4 parking lots
- ▶ Retrofit all 2x2 and 2x4 troffer style light fixtures with retrofit kits
- ▶ Only ballast and bulb removed replaced with LED strips and LED driver (power)







## SAC LED LIGHTING UPGRADE

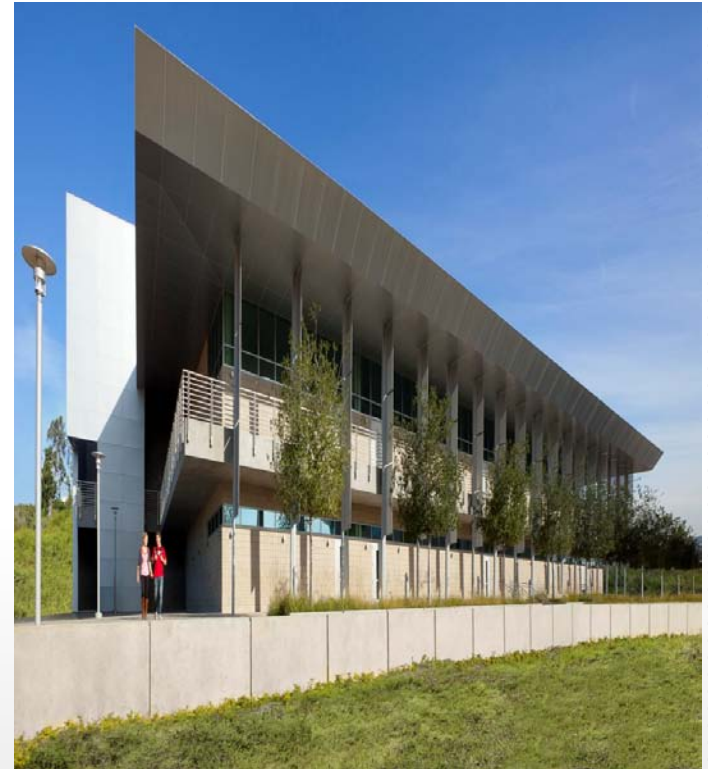
- ❖ Campus has approximately 9.1 million kWh of usage annually
- ❖ Estimated Energy Savings Interior is 405,107 kWh/yr
- ❖ Estimated Energy Savings Exterior is 363,156 kWh/yr
- ❖ Project Cost - \$1,516,730
- ❖ Source of Funding
  - ▶ Prop 39 - \$783,505
  - ▶ Projected Energy Saving Rebates - \$154,472
  - ▶ District - \$578,753
- ❖ Annual Cost Savings \$88,775 (electric)
- ❖ Delivery Method: Design-Bid-Build
- ❖ Status: Pending Bid in March and complete by June 30, 2014



## SCC SCIENCE & MATH BUILDING RETRO-COMMISSIONING

### Project Summary:

- ▶ Two Story Masonry Block Building with Metal Framed Roof
- ▶ Fix problems with existing controls in Labs and with HVAC system, temperature and air flow, eliminate constant running of equipment, integrate HVAC controls with new Energy Management System





## SCC SCIENCE & MATH BUILDING RCx

### 8 Energy Efficiency Measure Categories of Work

- ▶ Occupancy Sensor Based Demand Control Ventilation
- ▶ Lab Exhaust Fan Controls
- ▶ Variable Speed Exhaust Fan Operation
- ▶ Demand Control Ventilation
- ▶ Fan Static Pressure Reset
- ▶ Equipment Scheduling
- ▶ Hot Water Boilers Staging and Shutdown
- ▶ EMS System Replacement



## SCC SCIENCE & MATH BUILDING RCx

- ❖ Campus has approximately 5.5 million kWh and 157,000 natural gas therm usage annually
- ❖ Estimated Energy Savings is 445,000 kWh/yr
- ❖ Estimated Gas Savings is 21,400 therm/yr
- ❖ Project Cost - \$710,339
- ❖ Source of Funding
  - ▶ Prop 39 - \$234,034
  - ▶ Projected Energy Saving Rebates - \$130,488
  - ▶ District - \$ 345,817
- ❖ Annual Cost Savings \$74,992 (electric & gas)
- ❖ Delivery Method: Government Code Sections 4217-10 through 4217.18 and Public Contract Code 20133 (c) (1), Best Value Criteria
- ❖ Board approval 2/18/14 of construction contract to be completed by June 30, 2014.



## Future Year 2 Prop 39 Projects

### Santiago Canyon College

- ❖ Replace interior lights with LED
- ❖ Replace exterior lights with LED lights

### District Office

- ❖ Replace interior lights with LED



## Other Future Energy Saving Projects

### Santa Ana College

- ❖ Central Plant
- ❖ Campus wide Monitoring Base Commissioning
- ❖ Campus wide Replacement of Premium Efficiency Motors & Fan Wheels
- ❖ Campus wide Energy Management System

### Santiago Canyon College

- ❖ Campus wide Monitoring Base Commissioning
- ❖ Central Plant



**RANCHO SANTIAGO**  
Community College District

## Other Future Energy Saving Projects

District Operations Center

- ❖ HVAC Upgrade