California Community Colleges

Proposition 39
Clean Energy Jobs Act
Topics Covered

• Proposition 39 Close-out
• Board of Governors Energy and Sustainability Awards
• 2018-19 and 2019-20 Proposition 39 Program Summary
• Years 3-4 Workforce and Economic Development Proposition 39 program Summary
• Year 3-4 Accomplishments
## Proposition 39 Budget Summary

<table>
<thead>
<tr>
<th>Chancellor's Office Division Allocation</th>
<th>Allocation</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workforce &amp; Economic Development</td>
<td>12.80%</td>
<td>$6,000,000</td>
<td>$4,790,000</td>
<td>$4,950,000</td>
<td>$6,290,000</td>
<td>$5,950,000</td>
</tr>
<tr>
<td>Facilities Planning &amp; Utilization</td>
<td>87.20%</td>
<td></td>
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<td></td>
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<tr>
<td>District Allocation</td>
<td>$39,800,000</td>
<td>$31,595,000</td>
<td>$32,672,000</td>
<td>$41,875,000</td>
<td>$38,962,000</td>
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<tr>
<td>Proposition 39 Consulting Contract</td>
<td>$1,200,000</td>
<td>$1,115,000</td>
<td>$1,115,000</td>
<td>$1,115,000</td>
<td>$1,588,000</td>
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<tr>
<td>Total</td>
<td>100%</td>
<td>$47,000,000</td>
<td>$37,500,000</td>
<td>$38,737,000</td>
<td>$49,280,000</td>
<td>$46,500,000</td>
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</table>
### Proposition 39: Budget

<table>
<thead>
<tr>
<th>Chancellor’s Office Division Allocation</th>
<th>Allocation</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workforce &amp; Economic Development</td>
<td>12.80%</td>
<td>$27,980,000</td>
</tr>
<tr>
<td>Facilities Planning &amp; Utilization</td>
<td>87.20%</td>
<td>$184,904,000</td>
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<tr>
<td>District Allocation</td>
<td></td>
<td>$184,904,000</td>
</tr>
<tr>
<td>Proposition 39 Consulting Contract</td>
<td></td>
<td>$6,133,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
<td><strong>$219,017,000</strong></td>
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</tbody>
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Proposition 39: Closed-Out Projects

Summary of Proposition 39 Total Year 6 (Fiscal Year 2018-19) Closed-Out Projects

- 60* Districts
- 289 Total Closed-out projects
- $103.8M Total project costs
- 38.1M kWh savings
- 6,600 kW savings
- 588K therm savings
- $5.9M Energy cost savings
- 550 Direct job years (FTEs)
- 15 Trainee job years (FTEs)
- 1.1M Direct job hours
- 32K Apprentice direct job hours
- $4.5M Incentives paid
- 6,830 Homes powered
### Summary of Proposition 39 Total Year 7 (Fiscal Year 2019-20) Closed-Out Projects

- **31* Districts**
- **114 Total Closed-out projects**
- **$40.4M Total project costs**
- **14.3 kWh savings**
- **4,600 kW savings**
- **259K therm savings**
- **$2.2M Energy cost savings**
- **225 Direct job years (FTEs)**
- **6 Trainee job years (FTEs)**
- **467K Direct job hours**
- **13K Apprentice direct job hours**
- **$815K Incentives paid**
- **2,609 Homes powered**
### Proposition 39: Closed Projects

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
<th>Year 6</th>
<th>Year 7*</th>
<th>Project Totals</th>
<th>% of Total Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting</td>
<td>5</td>
<td>64</td>
<td>86</td>
<td>63</td>
<td>89</td>
<td>164</td>
<td>70</td>
<td>541</td>
<td>58%</td>
</tr>
<tr>
<td>HVAC</td>
<td>1</td>
<td>19</td>
<td>25</td>
<td>34</td>
<td>35</td>
<td>61</td>
<td>22</td>
<td>197</td>
<td>21%</td>
</tr>
<tr>
<td>Controls (combined lighting and HVAC controls)</td>
<td>0</td>
<td>11</td>
<td>31</td>
<td>10</td>
<td>16</td>
<td>36</td>
<td>15</td>
<td>119</td>
<td>13%</td>
</tr>
<tr>
<td>Self-Generation</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>11</td>
<td>1%</td>
</tr>
<tr>
<td>MBCx/RCx</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>7</td>
<td>2</td>
<td>16</td>
<td>4</td>
<td>31</td>
<td>4%</td>
</tr>
<tr>
<td>Other energy efficiency measures</td>
<td>0</td>
<td>3</td>
<td>2</td>
<td>10</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>21</td>
<td>2%</td>
</tr>
<tr>
<td>Tech Assist</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>5</td>
<td>0</td>
<td>12</td>
<td>1%</td>
</tr>
<tr>
<td>Total Projects</td>
<td>6</td>
<td>101</td>
<td>147</td>
<td>125</td>
<td>150</td>
<td>289</td>
<td>114</td>
<td>932</td>
<td>100%</td>
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</table>
The Board of Governors Energy and Sustainability Awards were established in 2012 to honor community college leaders for their exemplary energy and sustainability efforts at the California Community Colleges.

**Awards Categories:**

- Excellence in Energy and Sustainability—Proposition 39 Projects
- Excellence in Energy and Sustainability—Faculty/Student Initiatives
- Excellence in Energy and Sustainability—Sustainability Champion
# Board of Governors Energy and Sustainability Awards

## 2019 Excellence in Energy and Sustainability—Proposition 39 Projects

<table>
<thead>
<tr>
<th>Award</th>
<th>District</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best Overall District – Large</td>
<td>North Orange County CCD</td>
<td>Chilled Water Thermal Energy Storage</td>
</tr>
<tr>
<td>Best Overall District – Medium</td>
<td>Chaffey CCD</td>
<td>Photovoltaic Installation</td>
</tr>
<tr>
<td>Best Overall District – Small</td>
<td>Victor Valley CCD</td>
<td>Multi-year Campus-wide Exterior Lighting Retrofit</td>
</tr>
<tr>
<td>Retrofit Project</td>
<td>Saddleback College</td>
<td>Interior Lighting Retrofit Phase 1</td>
</tr>
<tr>
<td>Commissioning Project (MBCx)</td>
<td>DeAnza College</td>
<td>S-Quad Monitoring Based Commissioning</td>
</tr>
<tr>
<td>Renewable Energy</td>
<td>San Bernardino College</td>
<td>District Office’s Solar Photovoltaic System</td>
</tr>
</tbody>
</table>
## 2019 Excellence in Energy and Sustainability:

### Faculty/Student Initiative Award and Sustainability Champion

<table>
<thead>
<tr>
<th>Excellence in Energy and Sustainability—Faculty/Student Initiative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange Coast College</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Excellence in Energy and Sustainability—Sustainability Champion</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Bernardino CCD</td>
</tr>
</tbody>
</table>

### Honorable Mentions

| Honorable Mentions | Five districts |
Proposition 39 Summary

- All Proposition 39 funding encumbered by the districts
- Closed out all projects in 2019-20
- $5.8 M remaining from project savings
- 6.1 percent reduction in energy usage across the system
  - 43 districts reduced energy usage
  - 17 districts have increased their energy usage
  - 12 districts have not reported
Proposition 39 Extension

• Extended the program to December 2020
• $5.8M remaining from project savings
  • 23 districts with savings
  • 17 participating in extension
  • $406K in new administration costs that districts will pay
  • $5.2M in funds being reallocated towards projects
  • $150K unallocated from 6 non-participating districts
Future Challenges

• Alignment with Chancellor’s Office Climate Change and Sustainability Policy
• Lack of funding for future projects
• Lack of staff on campuses that are experts in sustainability
Workforce and Economic Development Division

- Funds directed to educational areas to align with SB 350 and SB 100
- Provided supplemental funding for clean energy education at 96 colleges
- Students earned 8,973 degrees and certificates
Summary of Certificates and Degrees

Summary of Awards by Type

- AA – AS – BS
- Certificate <18 Units
- Certificate <30 Units
- Certificate >30 Units
- Other or Noncredit Award
Summary of Awards by Program

- Water and Wastewater Technology
- Civil and Construction Management Technology
- Manufacturing and Industrial Technology
- Drafting Technology
- Construction Crafts Technology
- Environmental Control Technology
- Industrial Systems Technology and Maintenance
- Electro-Mechanical Technology
- Electronics and Electric Technology
- Architecture and Architectural Technology
Faculty Professional Development

- HVAC collaborative that engages faculty and industry
  - Now operating in Central Valley, Bay Area, North/Far North
- Automation collaborative launched in Orange County and Central Valley
- CA Independent System Operator Summit connecting faculty with industry and CA Energy Commission
- Southern California Virtual and Augmented Reality seminar engaging faculty for new tools to enhance student learning
# Regional Impact

<table>
<thead>
<tr>
<th>Region</th>
<th>College</th>
<th>Awards</th>
<th>Prominent Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Los Angeles/Orange</td>
<td>Santiago Canyon</td>
<td>1171</td>
<td>Water/Wastewater, Electrical</td>
</tr>
<tr>
<td>San Diego</td>
<td>San Diego Adult</td>
<td>489</td>
<td>Welding, Electronics/Electrical</td>
</tr>
<tr>
<td>Los Angeles/Orange</td>
<td>LA Trade Tech</td>
<td>408</td>
<td>Electrical, HVAC, Industrial Systems</td>
</tr>
<tr>
<td>Los Angeles/Orange</td>
<td>Orange Coast</td>
<td>326</td>
<td>Machine Technology, HVAC</td>
</tr>
<tr>
<td>Central</td>
<td>Sequoias</td>
<td>277</td>
<td>Industrial Systems, Electrical, Welding</td>
</tr>
<tr>
<td>Los Angeles/Orange</td>
<td>El Camino</td>
<td>268</td>
<td>HVAC</td>
</tr>
<tr>
<td>Central</td>
<td>Bakersfield</td>
<td>266</td>
<td>Welding, Electronics/Electrical, Machine Technology</td>
</tr>
<tr>
<td>North/Far North</td>
<td>American River</td>
<td>259</td>
<td>Welding, Electronics/Electrical, Structural Metal</td>
</tr>
<tr>
<td>Los Angeles/Orange</td>
<td>North Orange Adult</td>
<td>231</td>
<td>Welding</td>
</tr>
<tr>
<td>Los Angeles/Orange</td>
<td>Mt. San Antonio</td>
<td>231</td>
<td>HVAC, Architecture</td>
</tr>
</tbody>
</table>
Workforce and Economic Development

Summary

• Educational outcomes aligned with CA mandates
  • Added significant workforce capacity
• Educational programs updated through professional development
• Leveraged Community Colleges’ Strong Workforce funds to scale existing programs, replicate programs into other regions
• The Energy Skills Collaborative (TESC) was created through nexus of the success of this program
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