

Foothill-De Anza Community College District Energy Master Plan Project Energy and Sustainability Advisory Committee (ESAC) Agenda June 4, 2021 10:30 AM – 12:00 PM

Via Zoom:

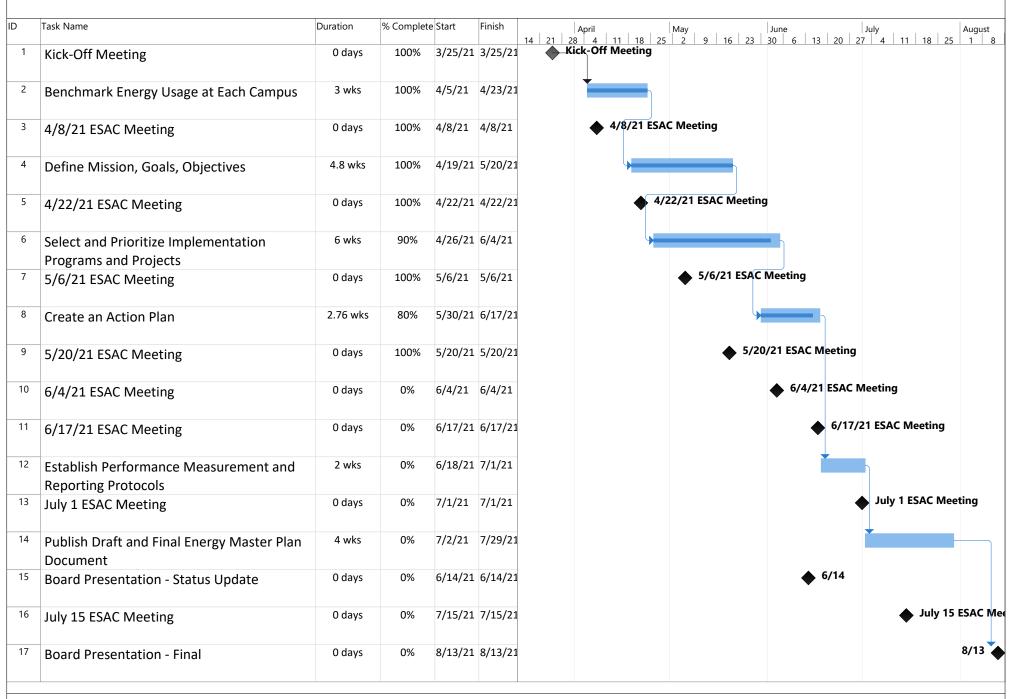
- 1. Action Items and Schedule Review
- 2. Review Preliminary Implementation Programs and Projects
 - Implementation Programs and Projects v3 Sorted by Objective.
- 3. Next Steps
 - Finalize Implementation Programs and Projects
 - Create Action Plan (Sustainability Template Section 8 review as homework for 6/17 meeting)

Next Meetings: June 17, July 1, July 15

FHDA Energy Master Plan Project Action Item/Decision List Updated: 6/1/2021

Action Item No.	Description	Responsibility	Due Date	Status	Notes
26	Tabulate district current GHG emissions to establish baseline for reduction goals	Matt, Robert	4-Jun	Complete	Distributed to ESAC on 5/25
27	Review Mission Statement, Goals , and Objectives with District Shared Governance committees to get feedback prior to BOT presentation	ESAC	25-May	Complete	Joel report out at 6/4 meeting
30	Schedule ESAC Workshop to review and edit draft Implementation Programs and Projects List	Joel, Matt	4-Jun	In Progress	Review list for inclusion in EMP, timing, and priority. Will create Google-doc for ESAC member comments.

FHDA CCD Energy Master Plan Schedule Status Update 6/4/21



FHDA Energy Master Plan
Implementation Programs and Projects - Preliminary
6/1/21 v3 Sorted by Objective

Project ID	Description	Timeline	Estimated Cost	Include in Plan? (Y/N)	Priority (H,M,L)	Revised Objective	Template Section 7 Category
OBJECTIVE 1 -	District Carbon Reduction Goals						
G-1	Implement Measure G Bond Projects	Measure G Plan		Y	Н	1	7.2
M-45	Perform Feasibility Study for District Electrification	2022		Y	Н	1	7.2
DC-7	Estimate FY 2020-2021 FHDA energy usage and GHG emissions	2021		Y	Н		
R-3	Modelling energy data for decarbonization efforts	2022		Y	Н	1	7.2 7.3 7.4 7.5
OBJECTIVE 2 -	Deploy EV charging infrastructure consistent with State of California §	goals and timelines for electri	fication of transpo	ortation			
R-5	Implement Electric Vehicle (EV) charging using (integrated with) onsite solar PV electricity. Include analysis of fast-charging for autonomus vehicles.	2025-2030		Y	М	2	7.6
OBJECTIVE 3 - enhance social	Reduce Vehicle Miles Traveled (VMT) for Faculty and Staff by $25-50\%$ equity.	by 2035 including developing	g programs to ma	ke public and	low-cost trar	sportation ac	cessible to
M-33	Improve Campus Fleet & Travel	2035		Y	М	3	7.6
M-30	Understand Commute and Travel Patterns (Survey)	2035		Y	M	3	7.6

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DC-13	Analyze opportunities to reduce trips to campus (remote working and learning)			Y	Н				
M-31	Encourage and Enhance Public Transportation and Ridesharing Options	2035		Y	M	3	7.6		
FMP-4	Evaluate Pederstrain Network and Safety	2022		Y	М	3			
M-32	Encourage and Enhance Bicycling Options	2035		Y	М	3	7.6		
OBJECTIVE 4 -	OBJECTIVE 4 - Evaluate Feasibility of Additional Renewable or Carbon-free Power (on-site and/offsite)								
M-27	Minimize Greenhouse Gas Intensity of Purchased Electricity (Green Power)	2022		Y	Н	4	7.5		
M-29	Perform Feasibility Study for additional PV at Campuses	2022		Y	Н	4	7.5		
OBJECTIVE 5 -	Evaluate Feasibility of additional Energy Efficiency Measures to Supp	ort Carbon Reduction Goals ar	nd Reduce Environ	mental Impac	cts				
M-11	Identify and Take Advantage of Grant and Incentive Programs	2022-2025		Y	Н	5	7.2		
M-5	Evaluate Mechanisms for the Implementation of Energy Efficiency Projects (incl. ESCO)	2022		Υ		5	7.2		
M-6	Conduct a Facility Prioritization Survey for EE Measures	2022-2025		Y	Н	5	7.3		

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M-12	Install Energy Efficient Equipment (HVAC, Lighting, Controls, etc.)	2022-2025		Υ	Н	5	7.2
M-13	Manage Plug Loads	2022-2025		Υ	Н	5	7.2
M-4	Set Energy Efficiency Goals	2022-2025		Y	Н	5	7.2
M-7	Conduct Comprehensive Facility Energy Audits	2022-2025		Y	Н	5	7.2
M-8	Implement New and Existing Audit Recommendations	2022-2025		Υ	Н	5	7.2
GOAL 6 - Optir	nize Energy Efficient Operations of Facilities						
M-1	Install Meters and Benchmark Facilities at the Building and System Level	2023		Υ	M	6	7.3
M-10	Participate in Demand Response (DR) Programs	2023		Y	М	6	7.2
M-14	Perform Regular Maintenance on Equipment	2022		Y	М	6	7.3
M-15	Encourage and Support Energy Efficiency Training of Staff	2023		Υ	М	6	7.3

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M-16	Install Energy Management Systems/Monitor Energy Usage	2023		Y	М	6	7.3
M-17	Adjust Temperature Set Points and Schedule Operating Times	2023		Y	М	6	7.3
M-18	Optimize Building Occupancy Scheduling	2023		Y	М	6	7.3
M-19	Optimize HVAC Equipment Scheduling	2023		Y	М	6	7.3
M-20	Pursue Monitoring-Based Commissioning (MBCx)/Retro- commissioning (RCx)	2023		Y	М	6	7.3
M-25	Commission New Buildings	2023		Y	М	6	7.4
OBJECTIVE 7 -	Evaluate Campus Resiliency Opportunities						
FMP-1	Climate Adaptation and Resilancy Plan	2022		Y	Н	7	
M-26	Evaluate Load Shifting Technologies (BES)					7	7.5
M-46	Solar/BES/Microgrid Feasibility Study					7	7.5
OBJECTIVE 8 -	Establish and Implement Green Building Standards						

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M-21	Establish a Green Building Standard	2021		Y	Н	8	7.4
M-22	Implement Sustainable Design Practices	2021		Υ	Н	8	7.4
M-23	Use an Integrated Systems Approach in Building Design	2021		Y	Н	8	7.4
M-24	Hire Sustainable Building Design Professionals	2021		Y	Н	8	7.4
OBJECTIVE 9 -	Establish purchasing policies to meet the goals of environmental, eco	nomic, and social equity susta	inability				
M-34	Green Purchasing Practices	2025		Y	М	9	7.9
M-35	Socially Responsible Purchasing	2025		Υ	М	9	7.9
OBJECTIVE 10 -	Institutionalize Energy and Sustainability Management in District Op	perations					
M-2	Hire Full-time Energy and Sustainability Manager	2021		Y	Н	10	7.1
M-3	Provide necessary resources to effectively manage energy use and reduce GHG emissions	2021		Y	Н	10	7.1

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M-44	Measure and Report Performance	2021		Y	Н	10	7.1
R-1	Evaluate and applying best practice energy efficiency measures	2021		Y	Н	10	7.2
R-9	Develop a reporting mechanism for energy and emissions for the District (compliance)	2023		Y	М	10	7.1
R-10	Keep detailed records of energy use (electricity and natural gas) published on an annual basis on the District website	2021		Y	Н	10	7.1
OBJECTIVE 11 -	Develop Processes to Engage Students, Faculty, and Staff in Energy	and Sustainability Activities in	n a Meaningful W	ау			
M-37	Advocate for Change at the Statewide Level	2022		Y	M	11	7.10
FMP-5	Student and Employee Orientation Program	2022		Y	Н	11	
FMP-6	Inter-Campus Collaboration	2021		Υ	Н	11	
M-38	Training Opportunities for Students	2021		Y	Н	11	7.10

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OBJECTIVE 12 -	Encourage Programs to Integrate Sustainability Activities into Stude	nt Learning and Educational Pi	rocess				
FMP-2	Incentivize Behavoiral Change	2023		Y	М	12	
M-40	Engage Faculty and Academic Senate to develop curriculum strategies	2022		Y	Н	12	7.10
M-36	Utilize Different Pathways to Integrate Sustainability in the Curriculum	2022		Y	Н	12	7.10
OBJECTIVE 13 -	Enhance Campus and Community Engagement						
M-39	Enhance ESAC Website to Better Communicate Energy and Sustainability Activities	2025		Y	M	13	7.11
M-50	Hold Workshops and Presentations	2025		Y	M	13	7.11
M-41	Sustainability Events	2025		Y	M	13	7.11
M-42	Campus Specific Outreach and Awareness	2025		Y	M	13	7.11
M-43, FMP-7	Community Service, Outreach, and Awareness	2025		Y	М	13	7.11

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FMP-6	Outreach Materials, Publications and Social Media	2022		Y	M	13			
FMP-8	Develop themes and messages to encourage and promote sustainability practices across the campus	2022		Y	М	13			
R-7	and promote sustainability practices across the	2022		Y	M	13	7.11		
Objective 14 -	Develop Programs to Enhance Social Equity								
FMP-8	Cultural Education Program	2022		Y	Н	14			
M-48	Engage Students to identify areas of social inequity on campus and develop programs to address.	2022		Y	М	14	7.10		
Objective 15 -	Objective 15 - Ensure Activities Consider Broader Economic and Environmental Impacts								
M-47	Research true economic, social, and environmental impacts of energy and sustainability projects. Include students in this program.	2022		Y	M	15	7.10		