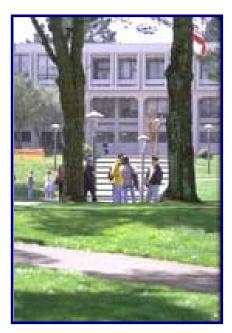


COMPREHENSIVE ENERGY ANALYSIS REPORT

for San Mateo County Community College District



Prepared by CMS Viron Energy Services



Viron Energy Services

May 29, 2002



Viron Energy Services

COMPREHENSIVE ENERGY ANALYSIS REPORT

FOR THE

San Mateo County Community College District San Mateo, CALIFORNIA

*1330 Br*oadway, Suite 515

May 29, 2002

Table of Contents

SECTION	SECTION NUME
Executive Summary	1
•	
	2
Utility Baseline Analysis/Rates	2
Data on Present Facilities	3
Mechanical Equipment Inventories	3a
<u>College of San Mateo</u>	σu
<u>Cañada College</u>	
Skyline College	
Lighting Fixture Inventories	3b
<u>College of San Mateo</u>	
<u>Cañada College</u>	
Skyline College	
Electrical Plug Loads	3c
<u>College of San Mateo</u>	
<u>Cañada College</u>	
Skyline College	
Floor Plans- Open with AutoCAD from C	CD 3d
1	
Enormy Concernation Macaurea	4
Energy Conservation Measures	
	-
Monitoring	5
Appendix A- EMS Points List	6

List of Tables

Tabl		Page
e	Title	No.
No.		
1-1	Energy Conservation Measures Investigated	1-6
1-2	Preferred Option	1-7
1-3	Preferred Option - Proforma	1-8
4-1	Energy Conservation Measures Investigated	4-1
4-2	Recommended Conservation Measures	4-2
4-3	Recommended ECM Application Chart-CSM Bldgs 1-17	4-3
4-4	Recommended ECM Application Chart-CSM Bldgs 18-District Headquarters	4-4
4-5	Recommended ECM Application Chart- Cañada College	4-5
4-6	Recommended ECM Application Chart- Skyline College	4-6
5-1	Operational Schedules & Setpoints – CSM (Bldgs 1-13)	5-9
5-2	Operational Schedules & Setpoints – CSM (Bldgs 14-HQ)	5-10
5-3	Operational Schedules & Setpoints – Cañada College	5-11
5-4	Operational Schedules & Setpoints – Skyline College	5-12

List of Figures

Fig.		Page
No.	Title	No.
1-1	Comparison of Community College Annual Energy Expenditures	1-3
1-2	Plugged Condensate Drain	1-4
1-3	Manual Override on Older EMS Controls	1-5
1-4	Leaking Pumps and Valves	1-5
2-1	Natural Gas Procurement Comparison	2-4
2-2	Cañada College Electric History and Baseline	2-8
2-3	Cañada College Natural Gas History and Baseline	2-8
2-4	College of San Mateo Electric History and Baseline	2-9
2-5	College of San Mateo Natural Gas History and Baseline	2-9
2-6	Skyline College Electric History and Baseline	2-10
2-7	Skyline College Natural Gas History and Baseline	2-10
2-8	District Headquarters Electric History and Baseline	2-11
2-9	District Headquarters Natural Gas History and Baseline	2-11