Appendix D.3

Utility C Data

INDEX

UTILITY C DATA *0*
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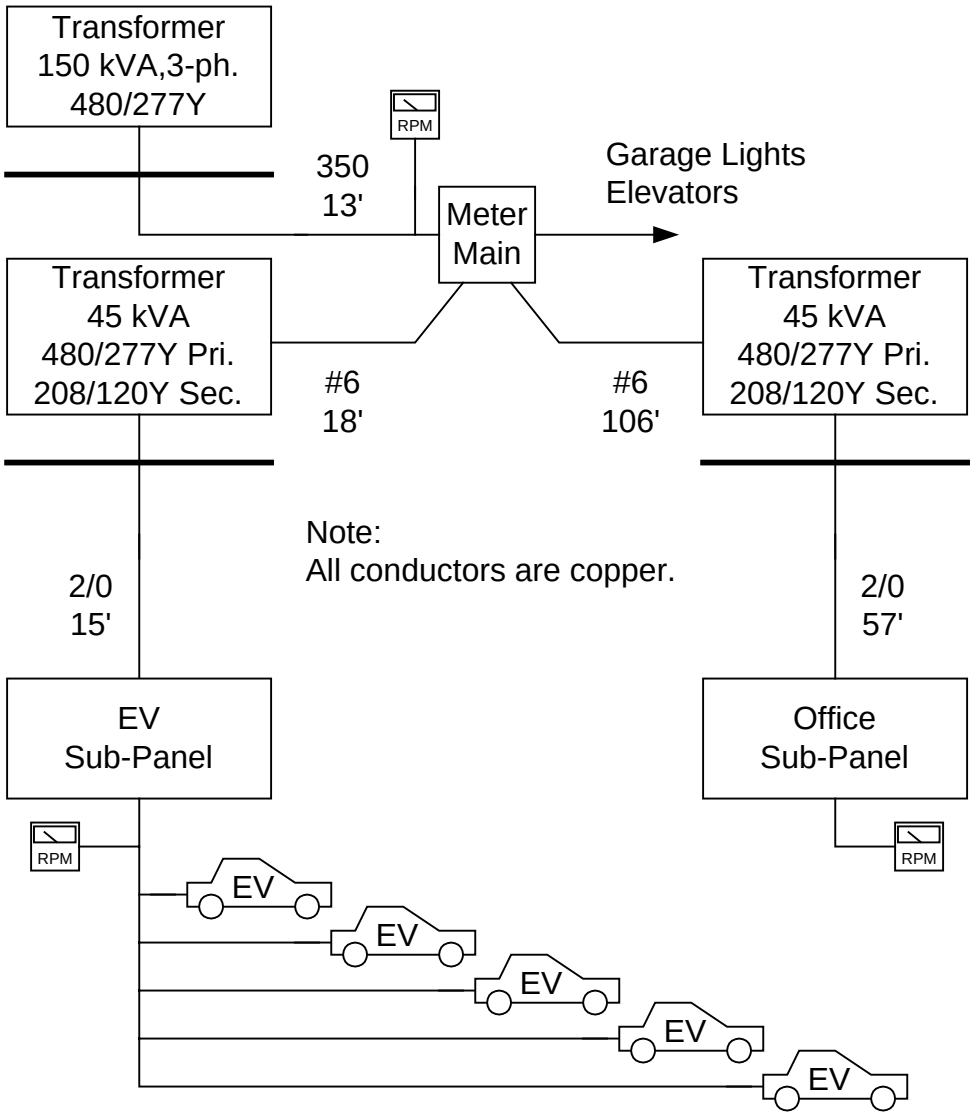
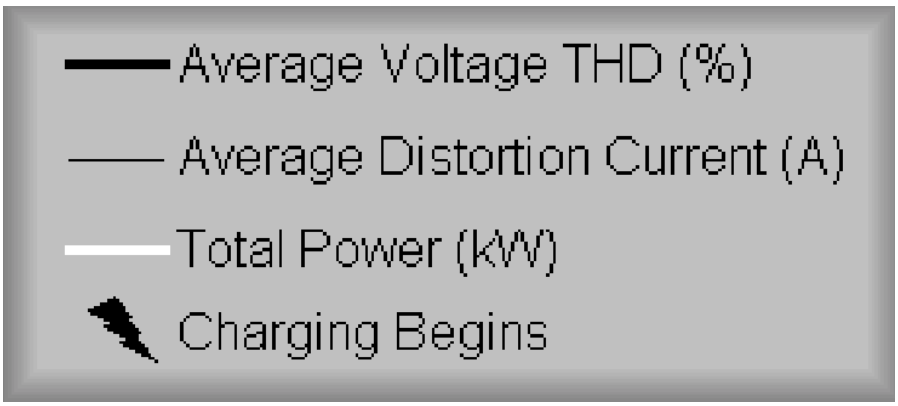
UTILITY C FIELD SITE LAYOUT *2*
UTILITY C DAILY GRAPHS *3*
UTILITY C WEEKLY GRAPHS *25*

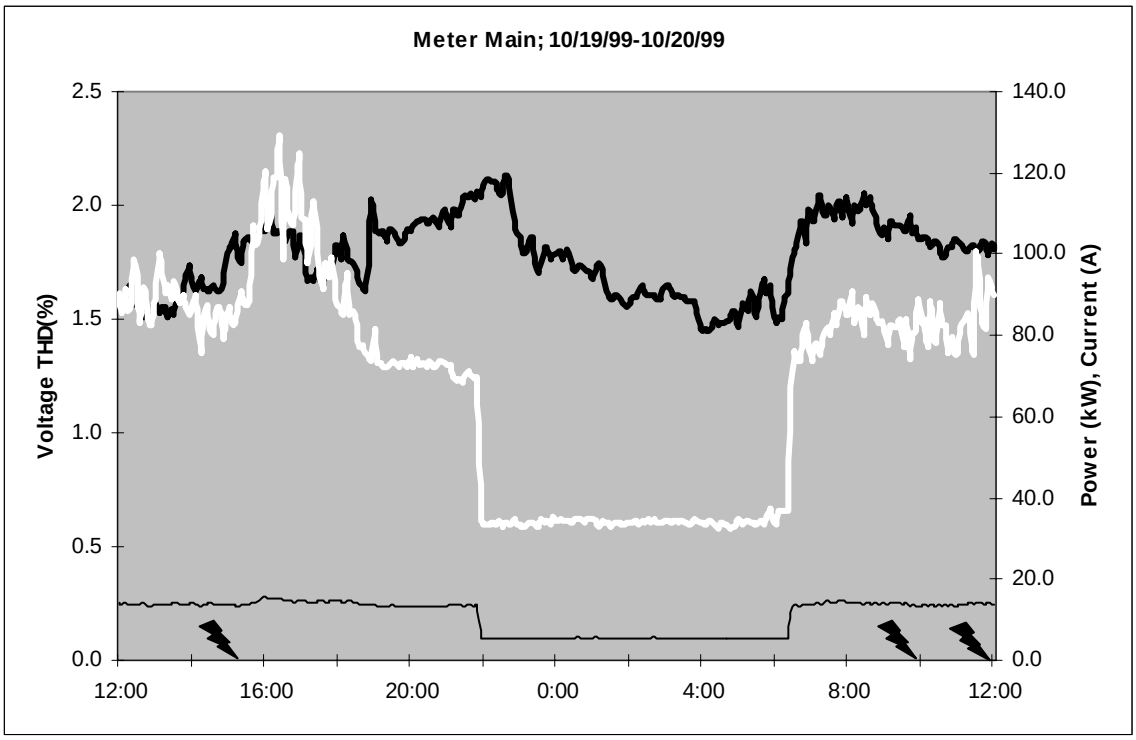
UTILITY C FIELD SITE LAYOUT

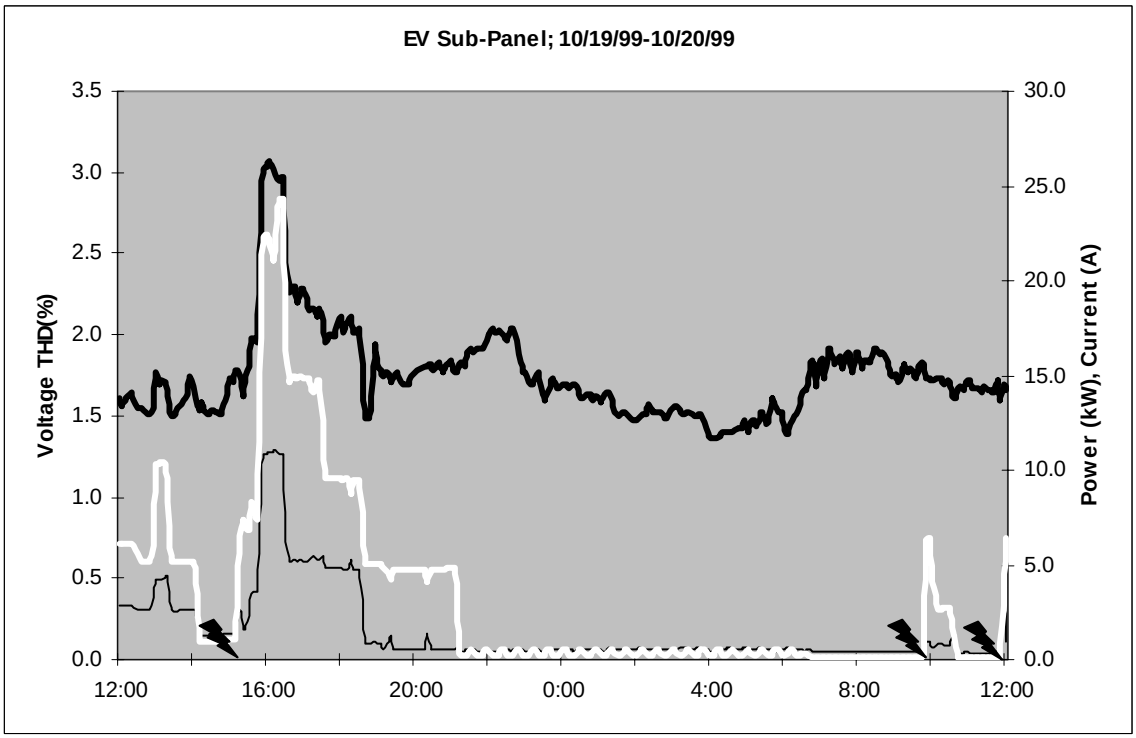


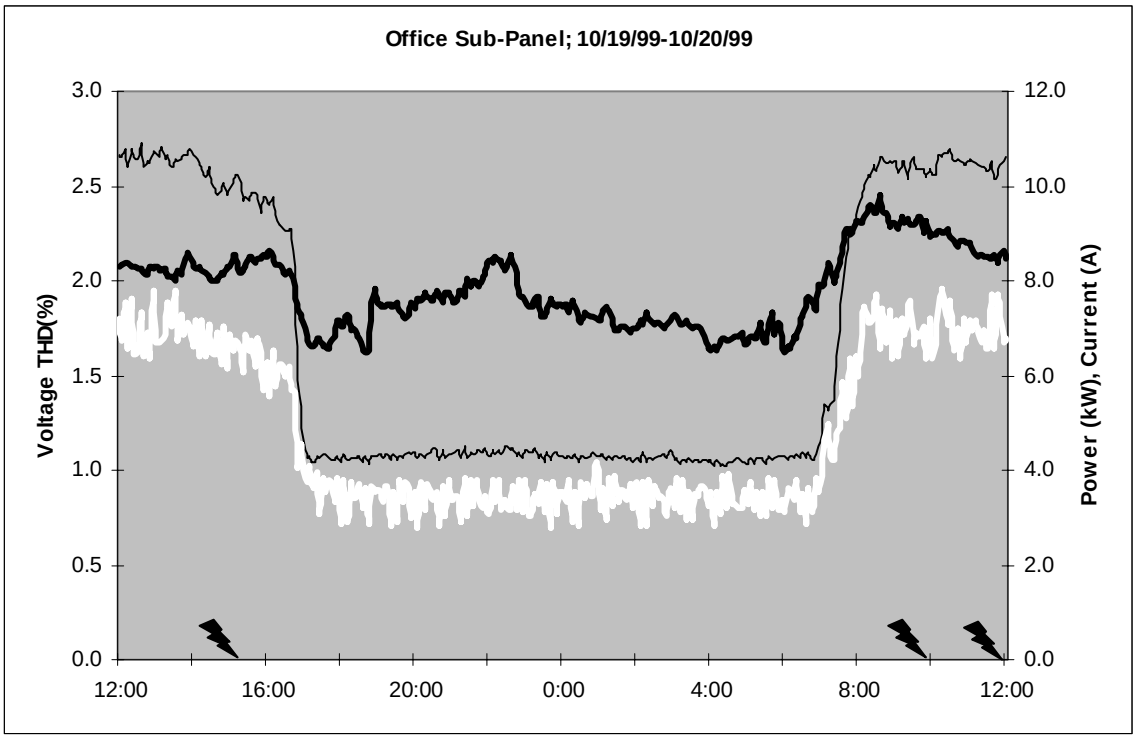
UTILITY C DAILY GRAPHS

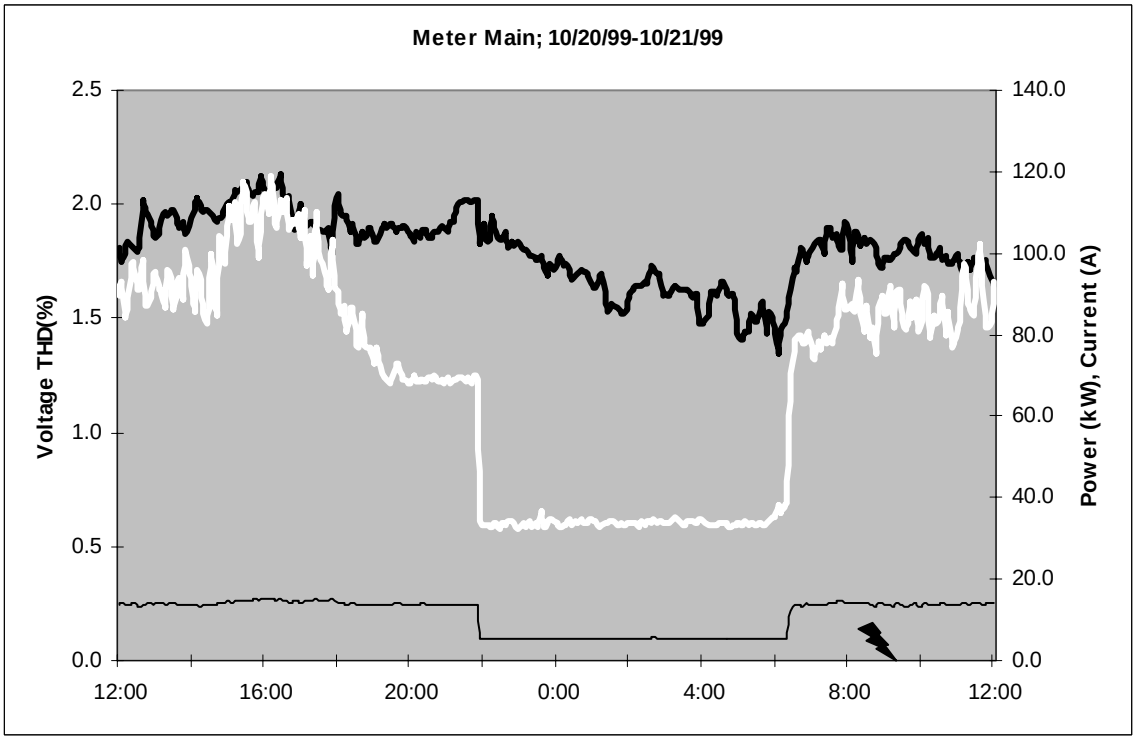


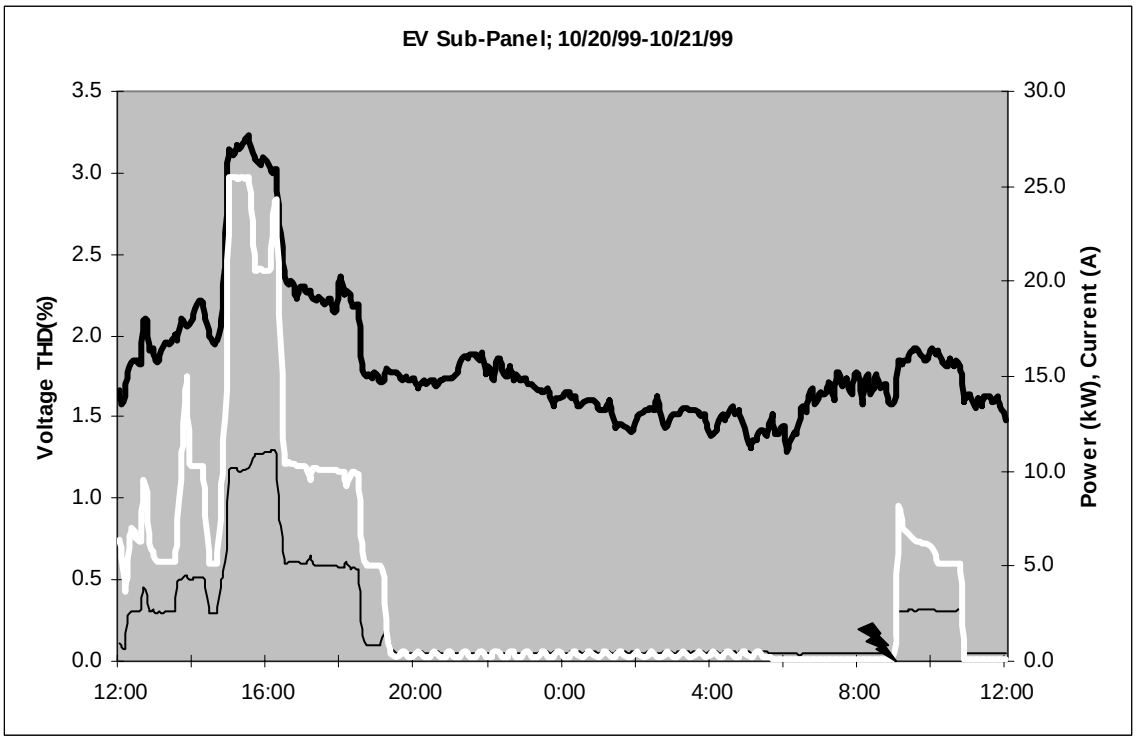
Legend for Distortion Related Graphs
(Graph Scales are different for clarity)

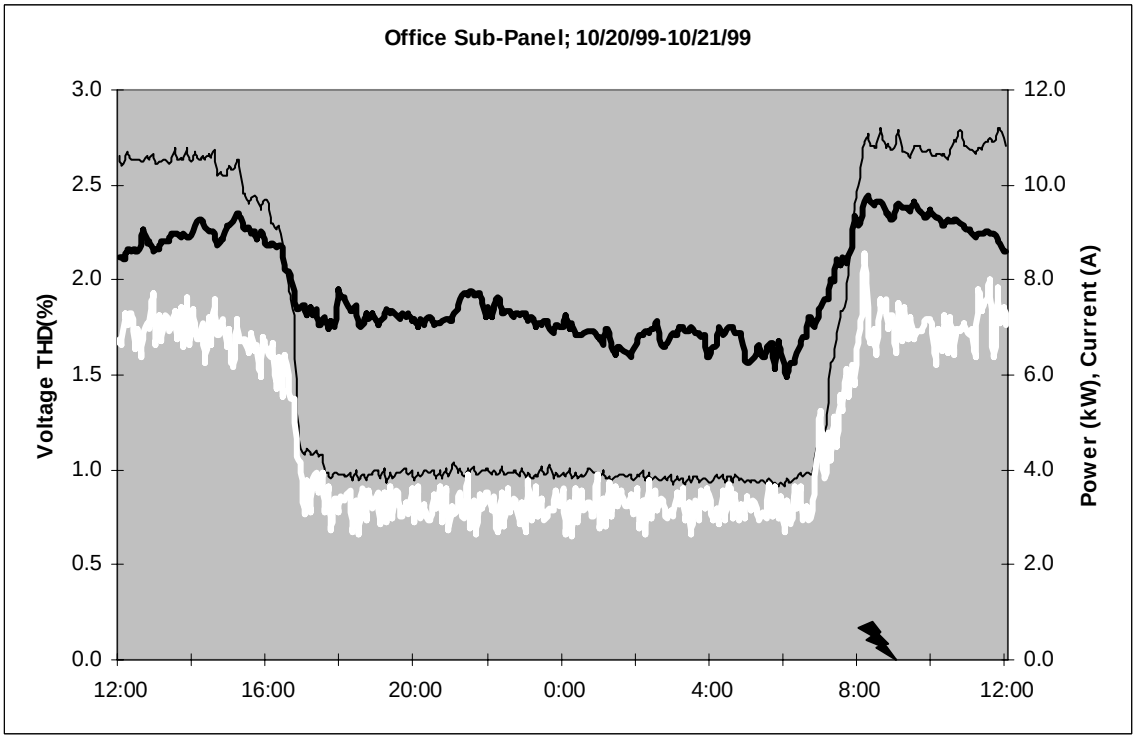

Meter Main; 10/19/99-10/20/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

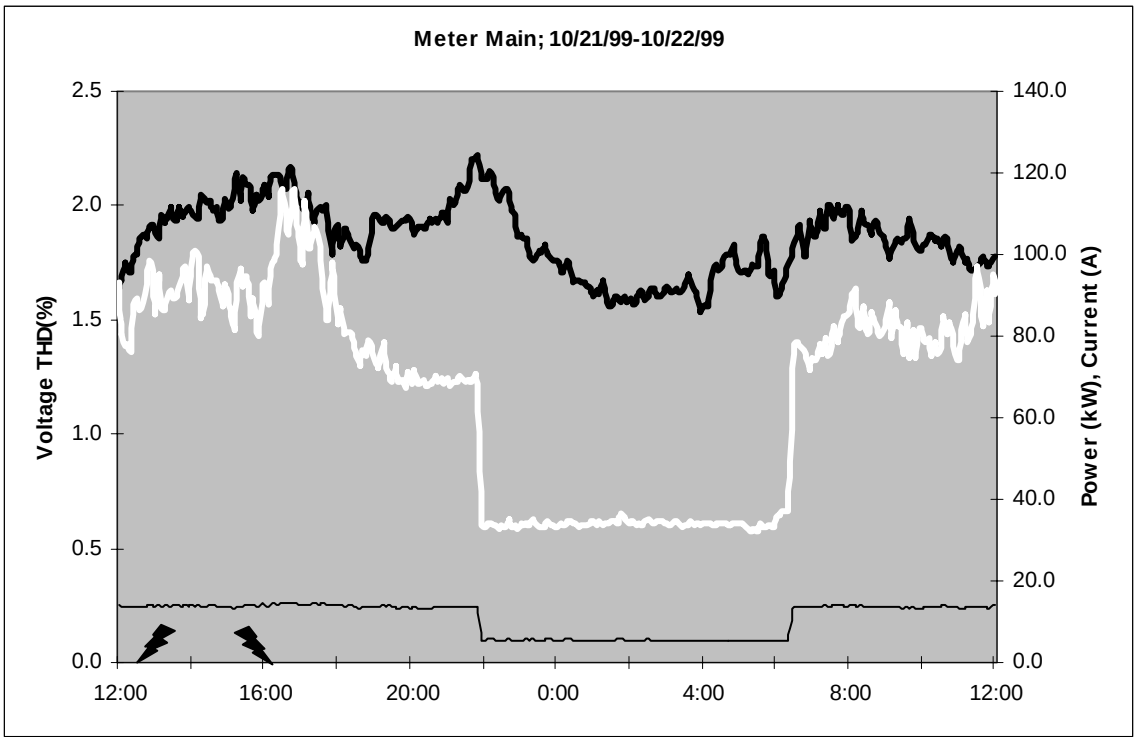

EV Sub-Panel; 10/19/99-10/20/99
Voltage THD(%)
Power (kW), Current (A)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

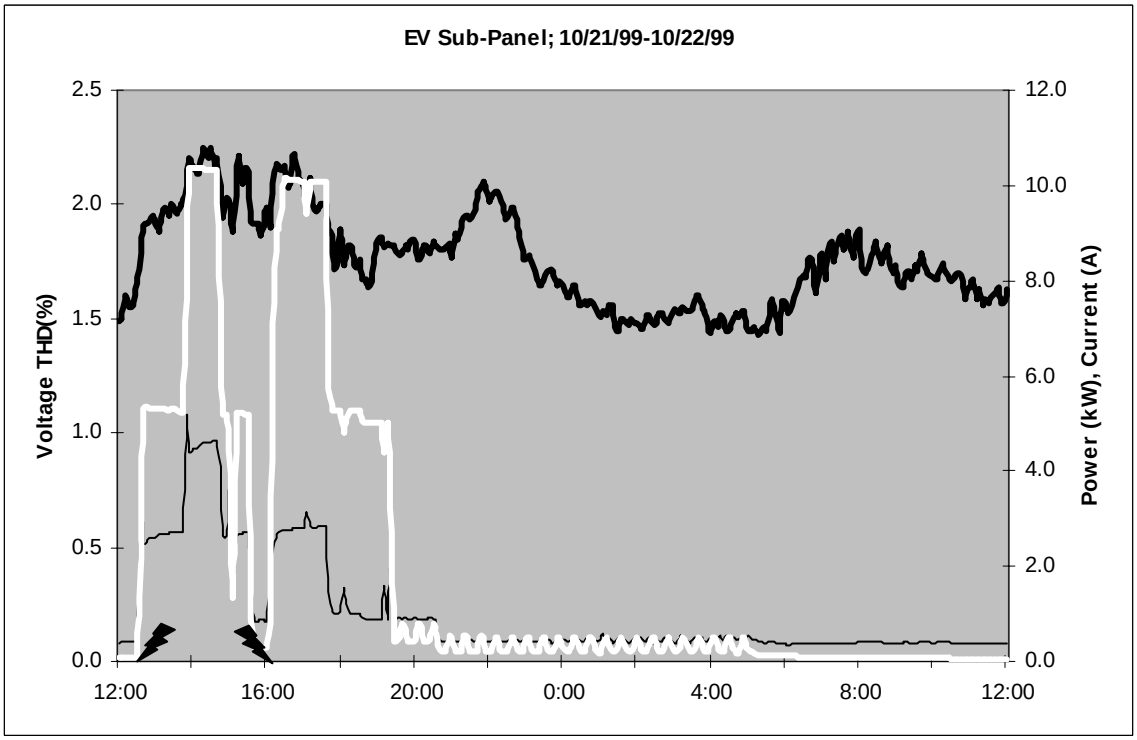

Office Sub-Panel; 10/19/99-10/20/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

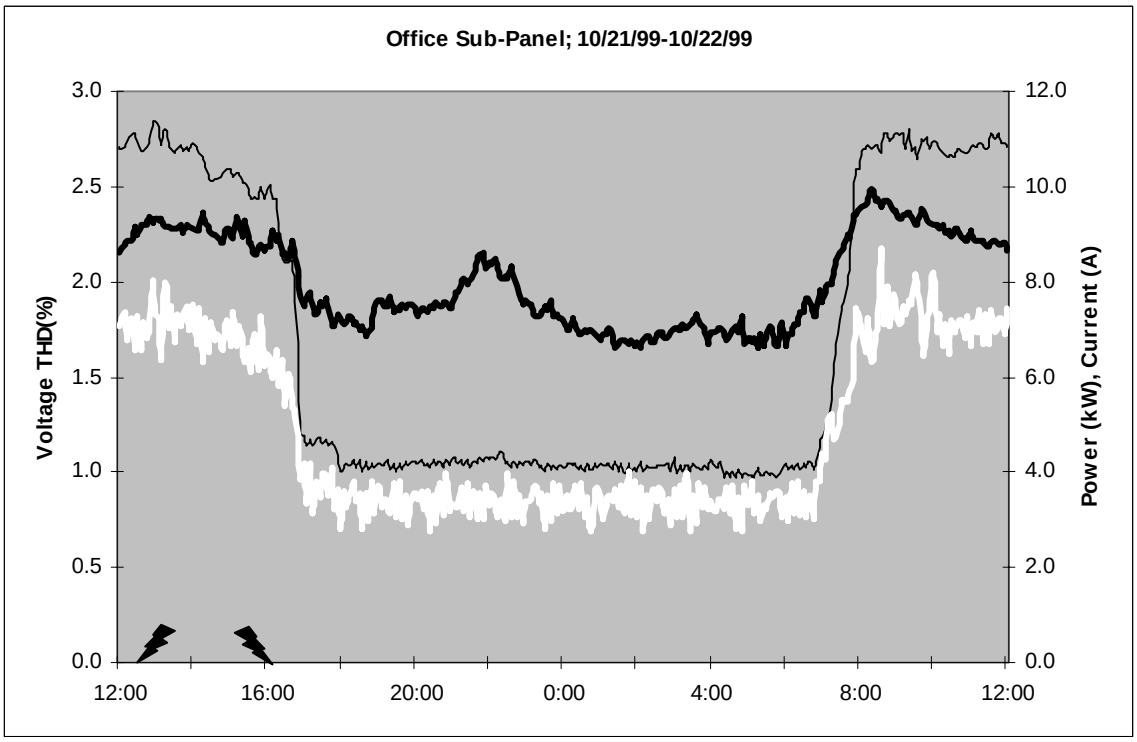

Meter Main; 10/20/99-10/21/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

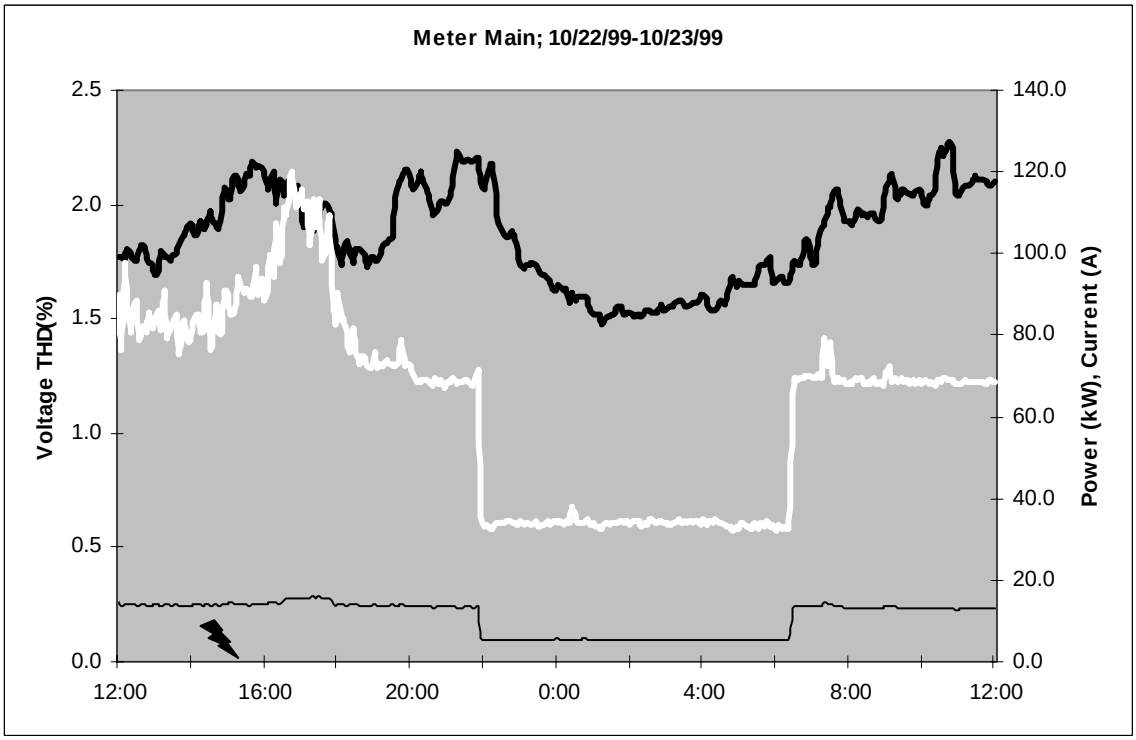

EV Sub-Panel; 10/20/99-10/21/99
Voltage THD(%)
Power (kW), Current (A)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

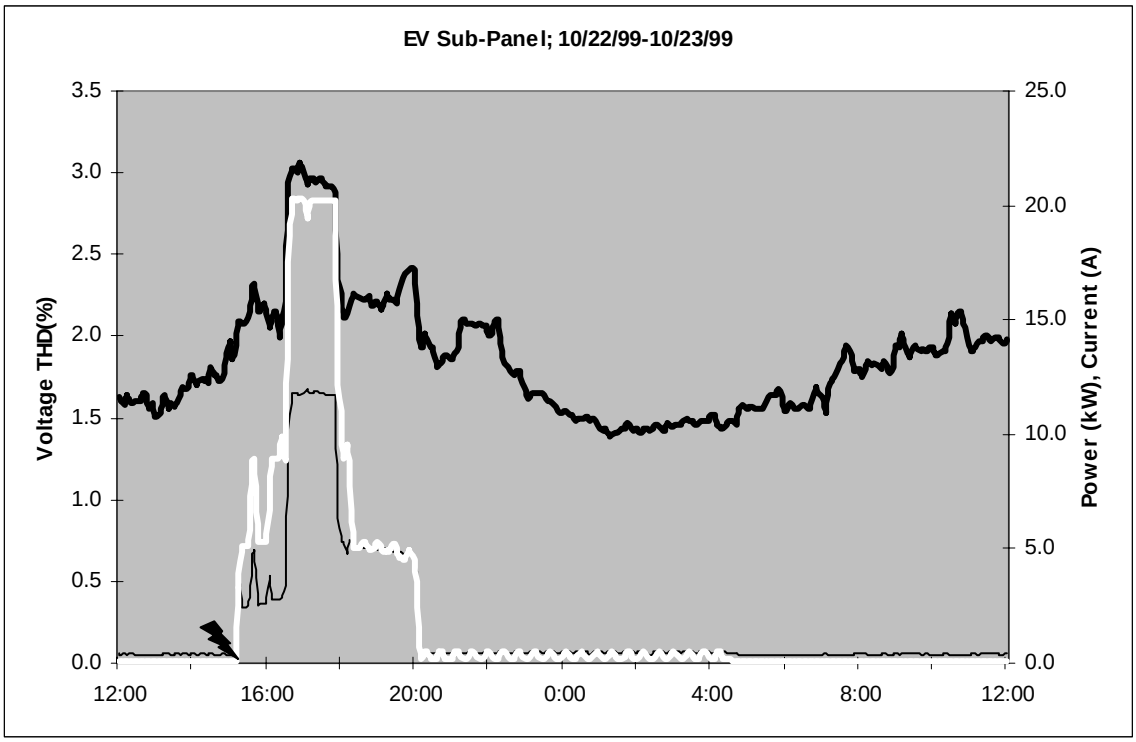

Office Sub-Panel; 10/20/99-10/21/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

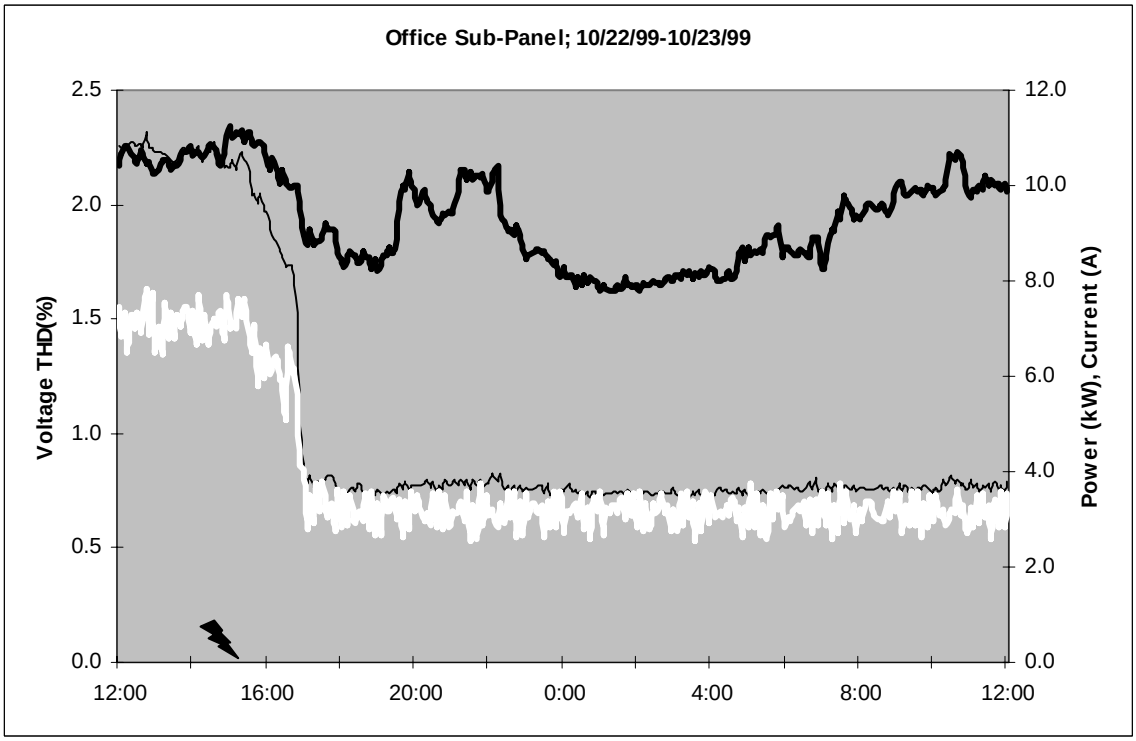

Meter Main; 10/21/99-10/22/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


EV Sub-Panel; 10/21/99-10/22/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


Office Sub-Panel; 10/21/99-10/22/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


Meter Main; 10/22/99-10/23/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


EV Sub-Panel; 10/22/99-10/23/99
Voltage THD(%)
Power (kW), Current (A)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
25.0
20.0
15.0
10.0
5.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


Office Sub-Panel; 10/22/99-10/23/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
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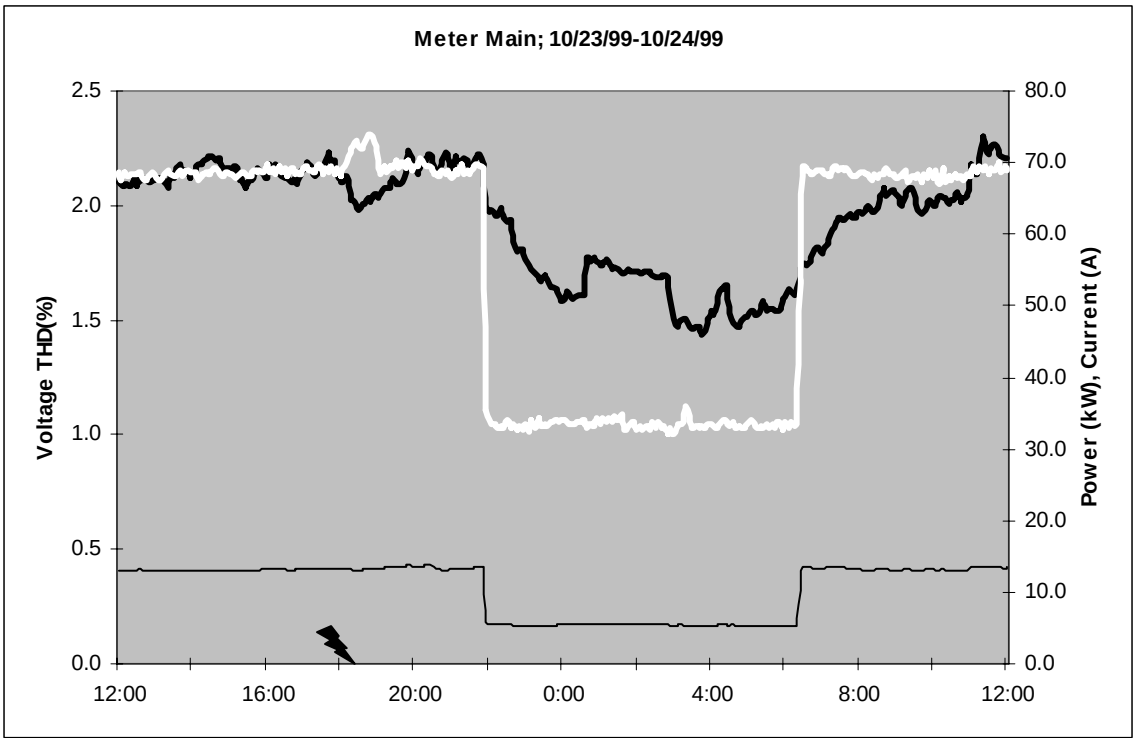
8:00
12:00


Meter Main; 10/23/99-10/24/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
12:00
16:00
20:00
0:00
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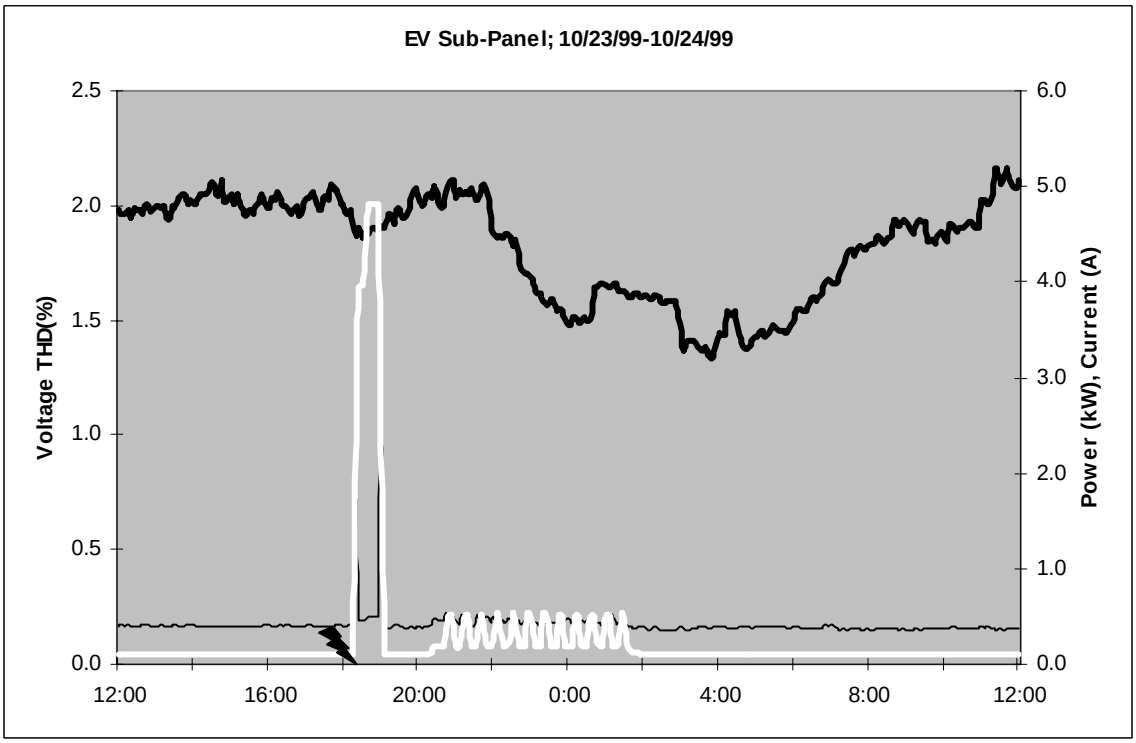
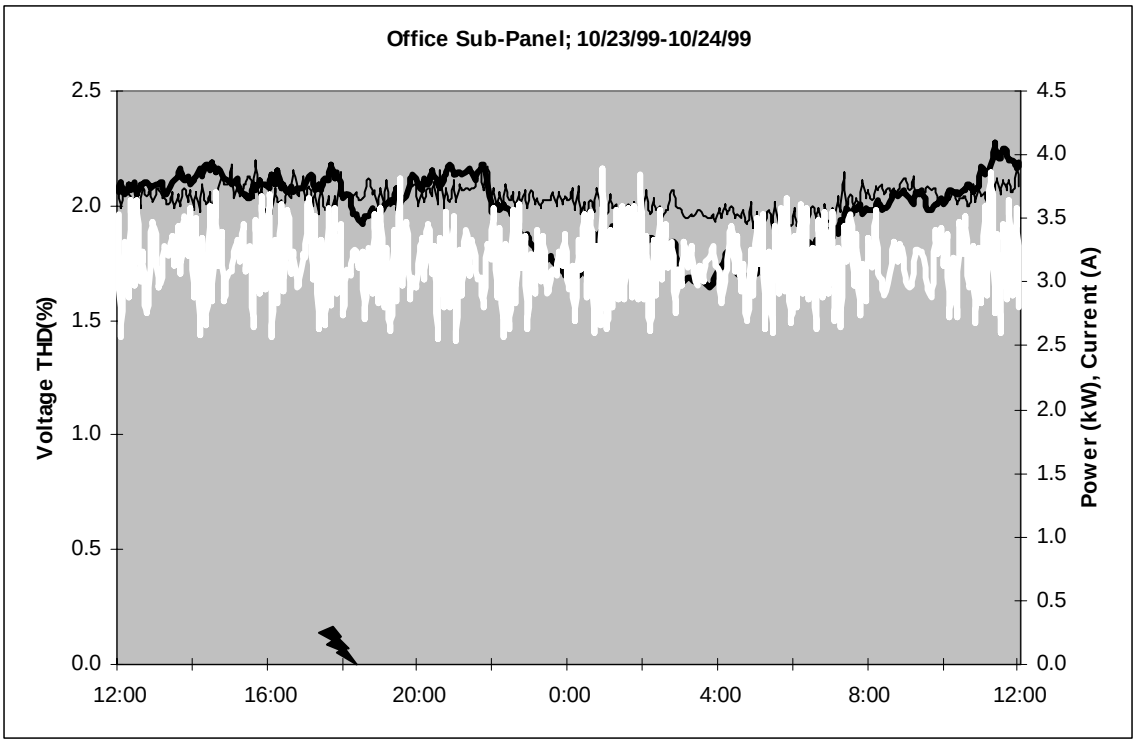
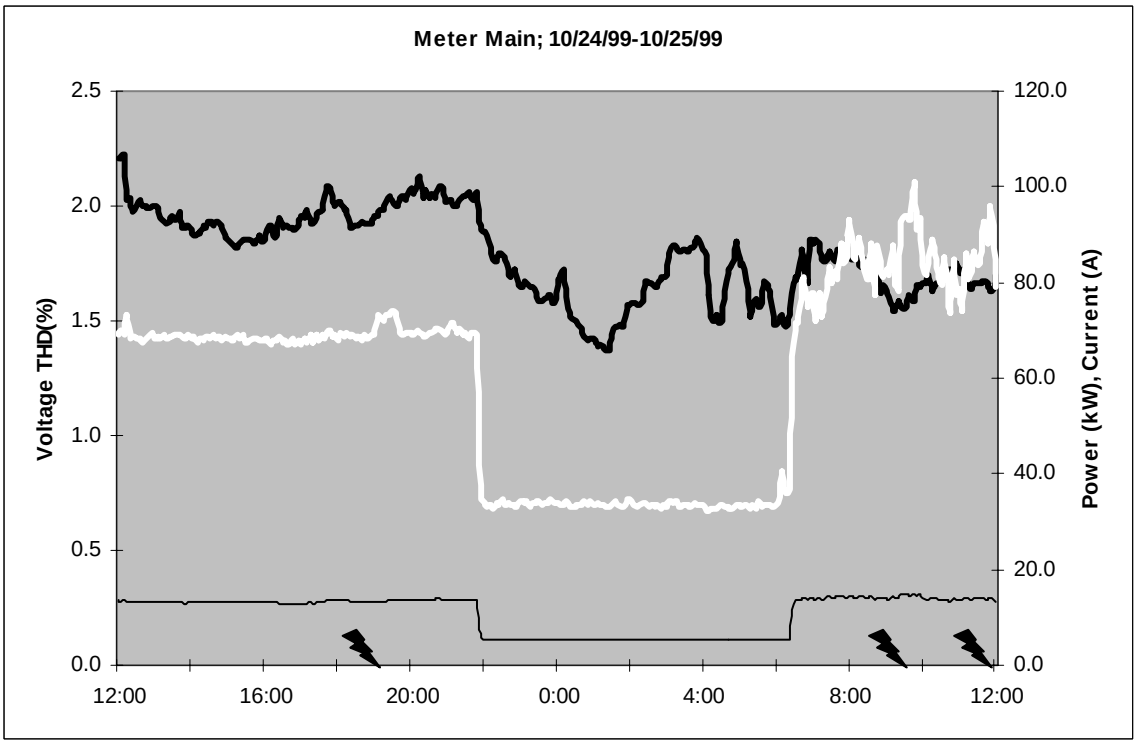
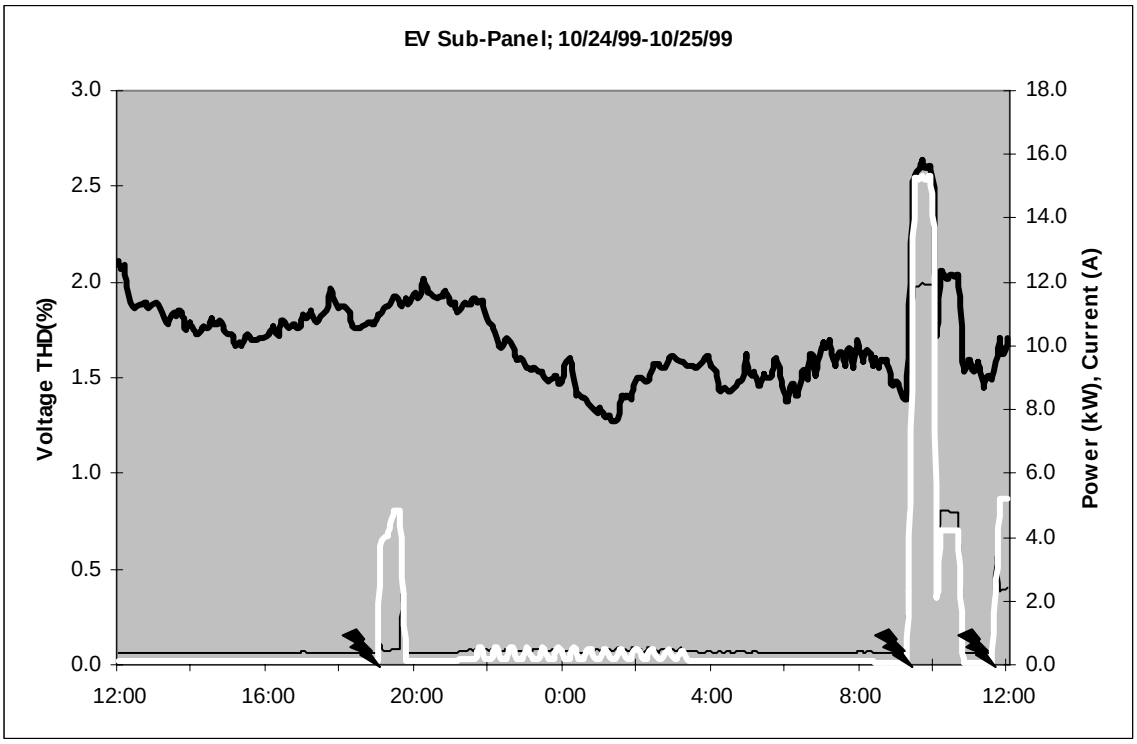
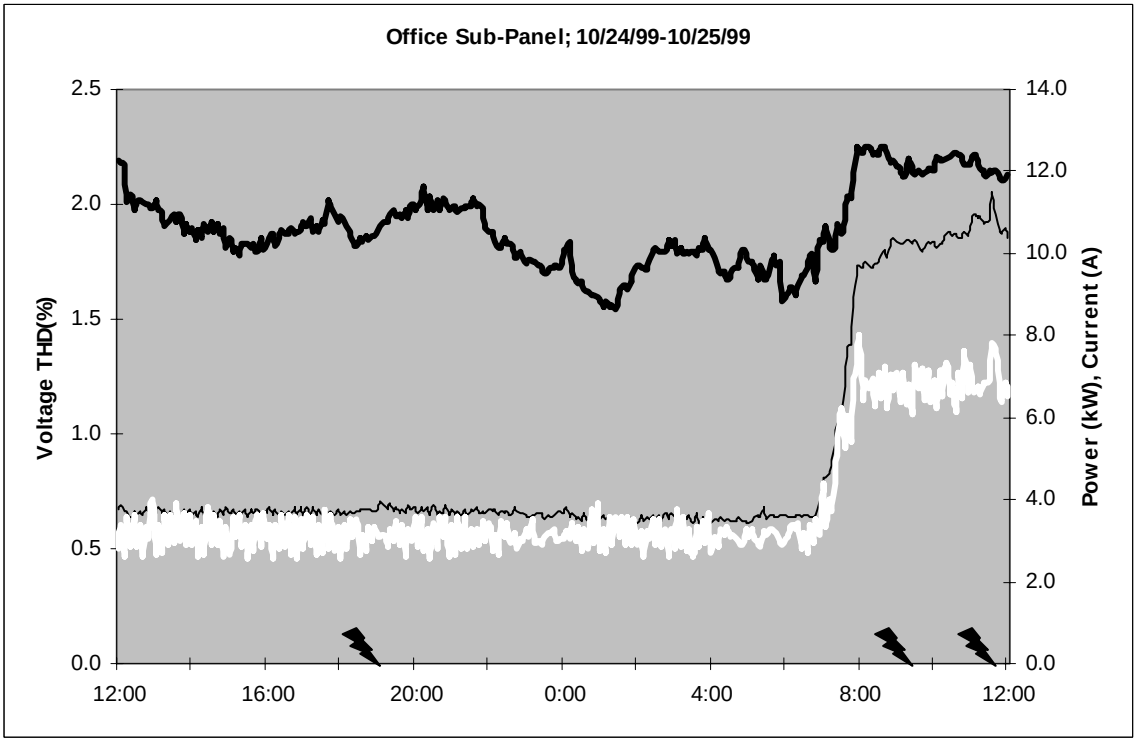
12:00

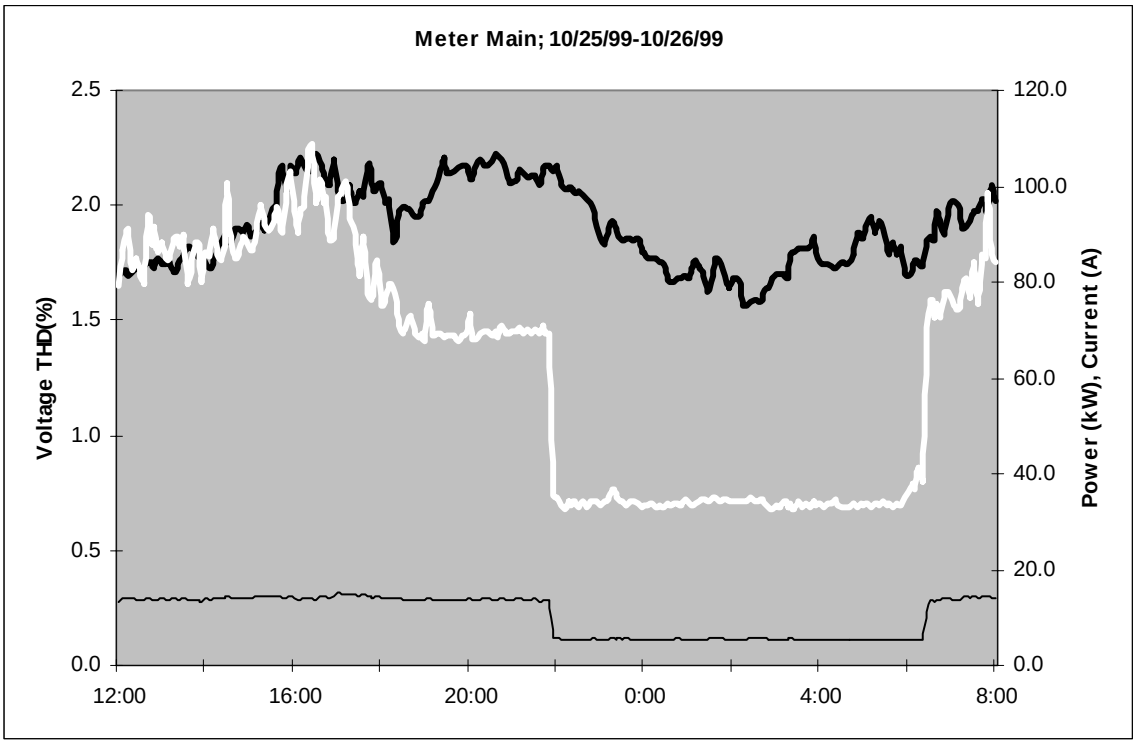

EV Sub-Panel; 10/23/99-10/24/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

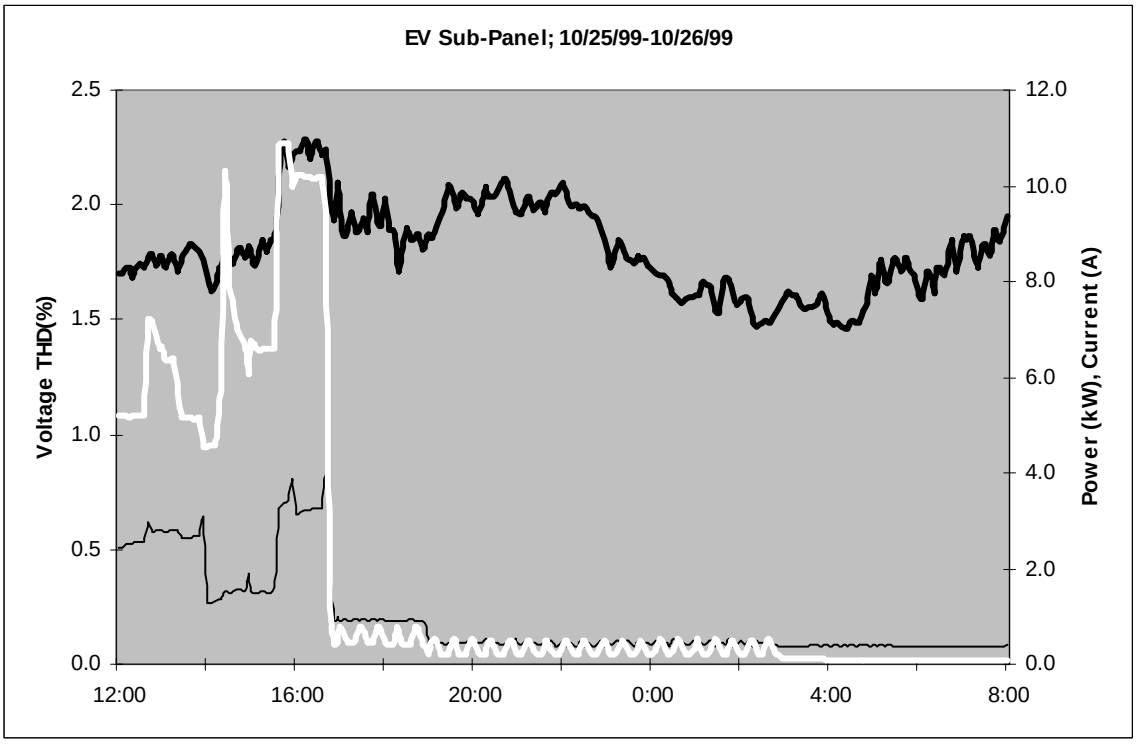

Office Sub-Panel; 10/23/99-10/24/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

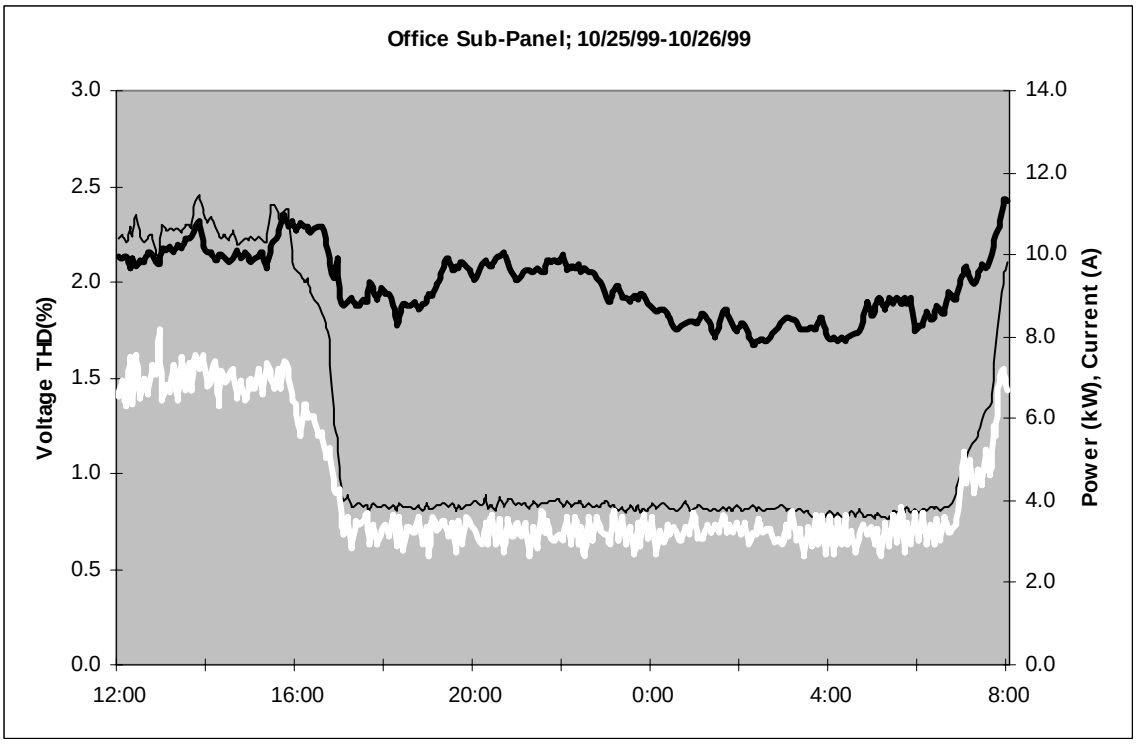

Meter Main; 10/24/99-10/25/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

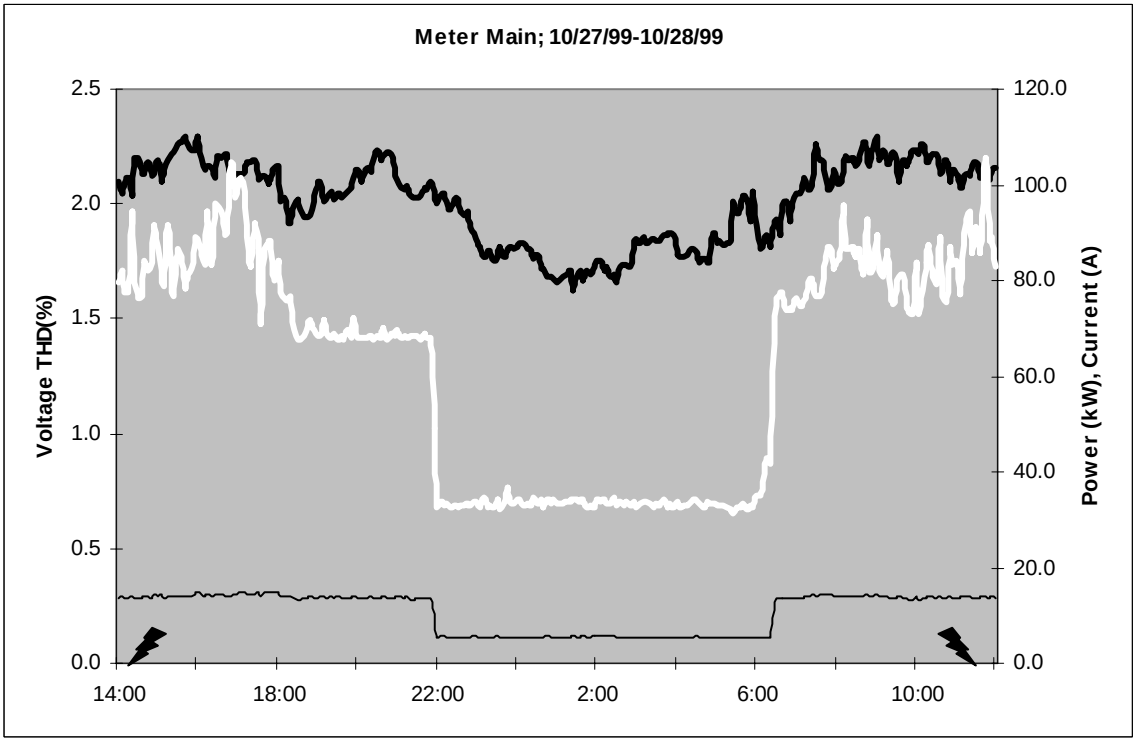

EV Sub-Panel; 10/24/99-10/25/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

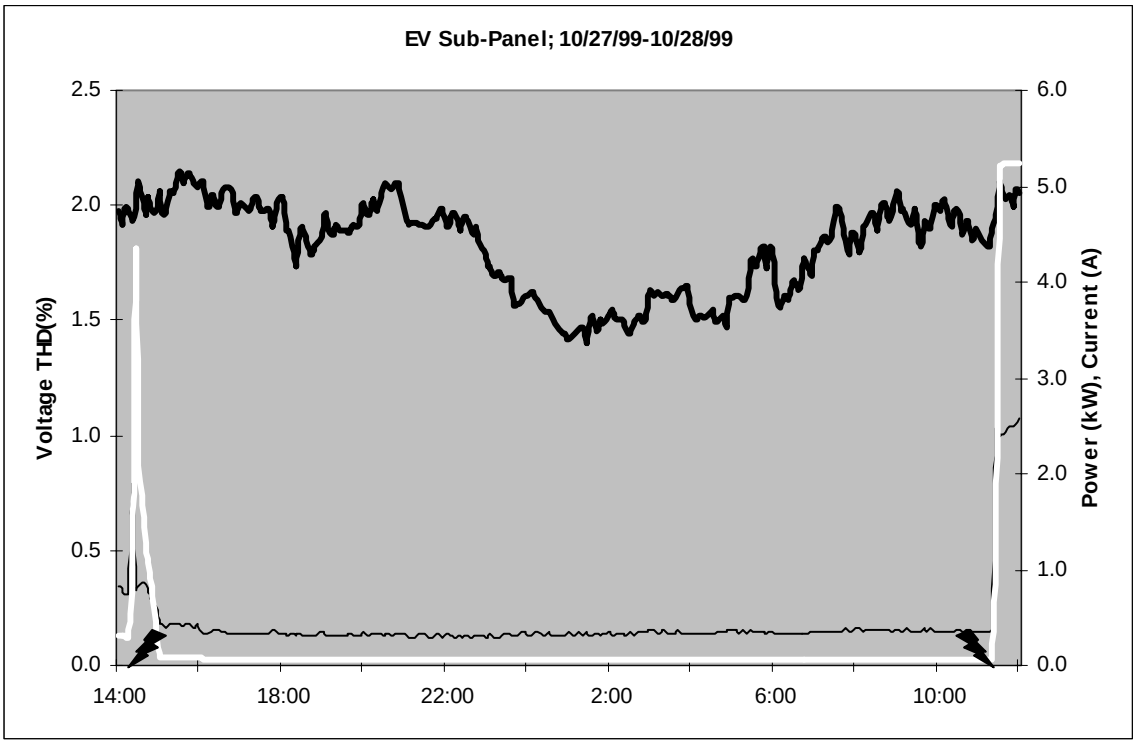

Office Sub-Panel; 10/24/99-10/25/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

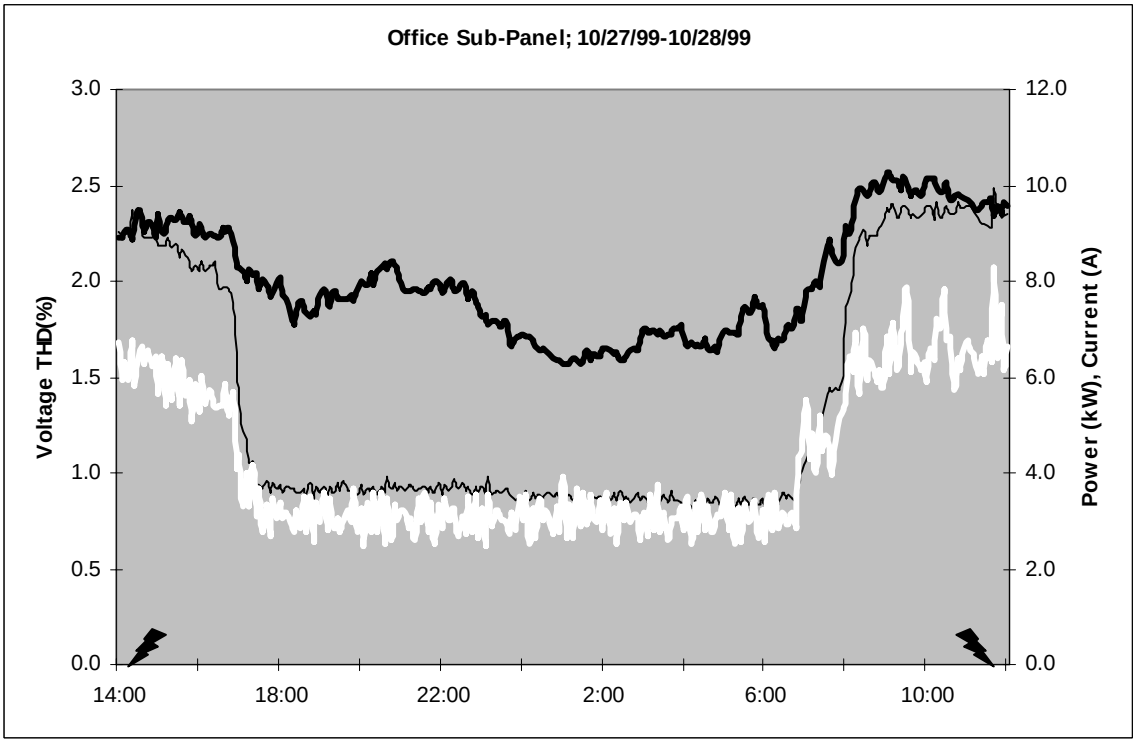

Meter Main; 10/25/99-10/26/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00

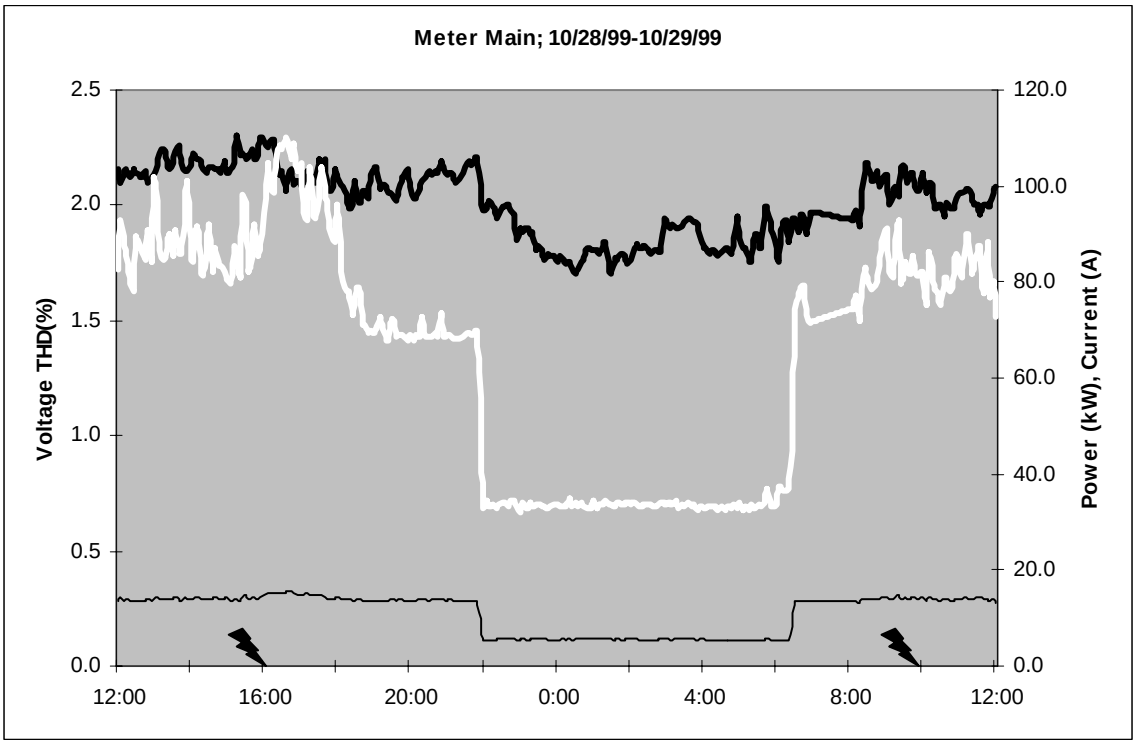

EV Sub-Panel; 10/25/99-10/26/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00

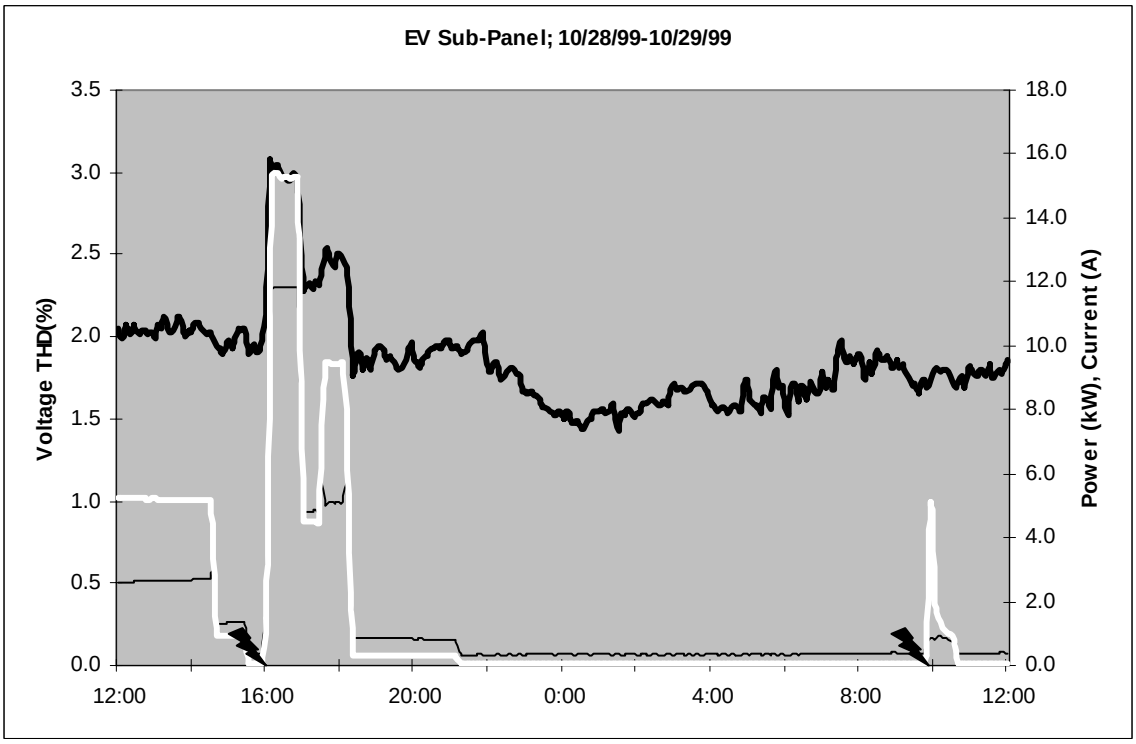

Office Sub-Panel; 10/25/99-10/26/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00

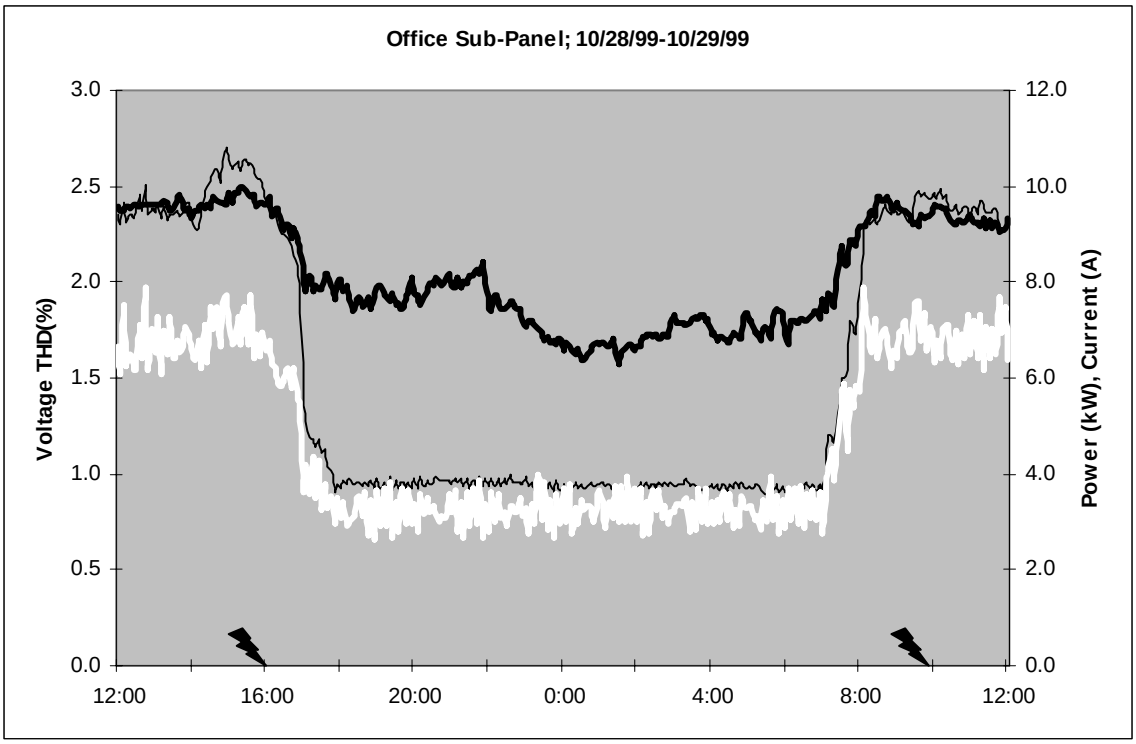

Meter Main; 10/27/99-10/28/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
14:00
18:00
22:00
2:00
6:00
10:00

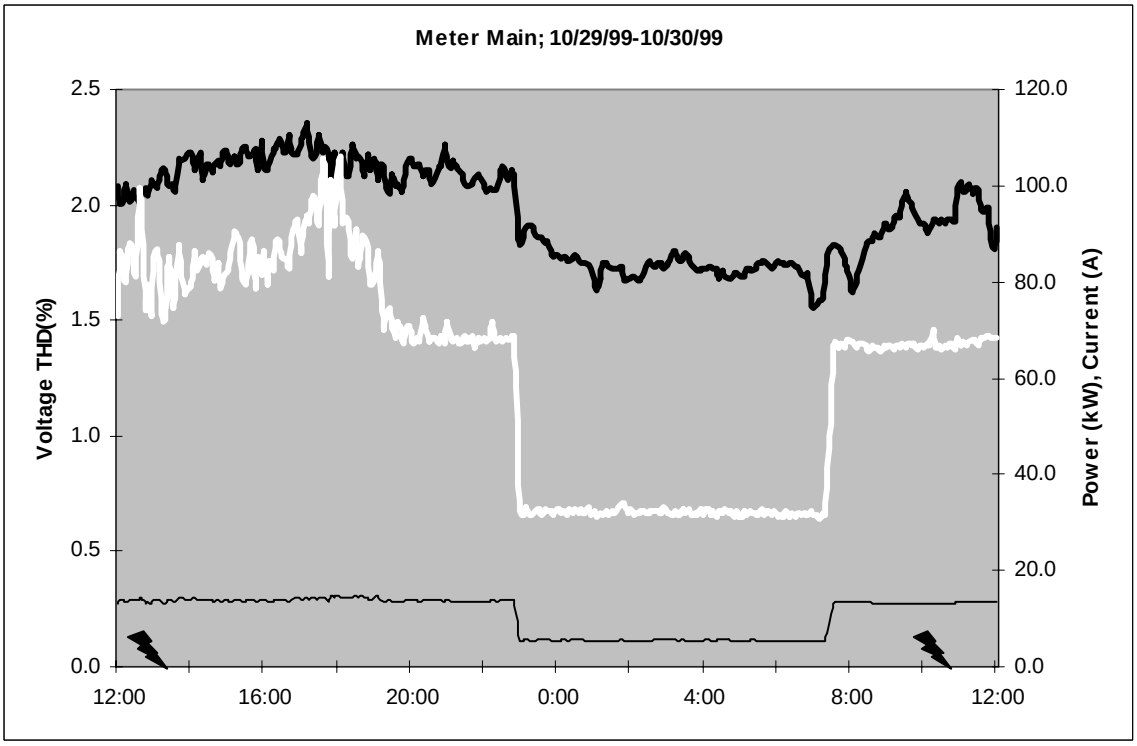

EV Sub-Panel; 10/27/99-10/28/99
Voltage THD (%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
14:00
18:00
22:00
2:00
6:00
10:00

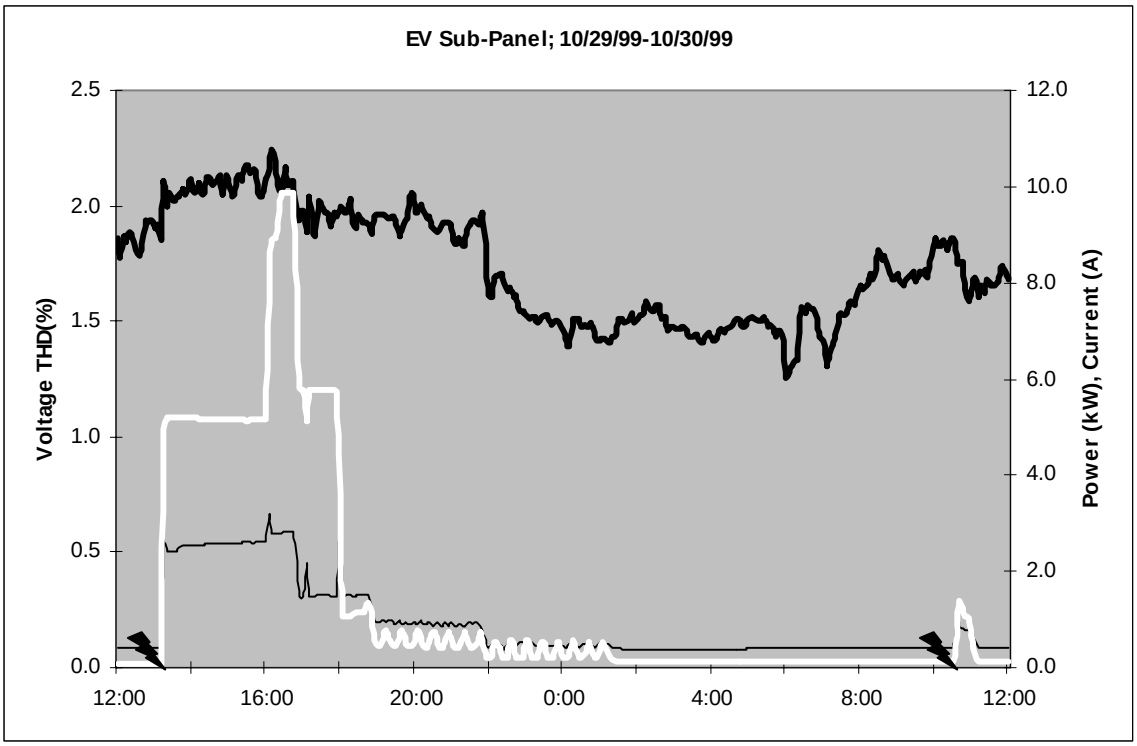

Office Sub-Panel; 10/27/99-10/28/99
Voltage THD (%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
14:00
18:00
22:00
2:00
6:00
10:00

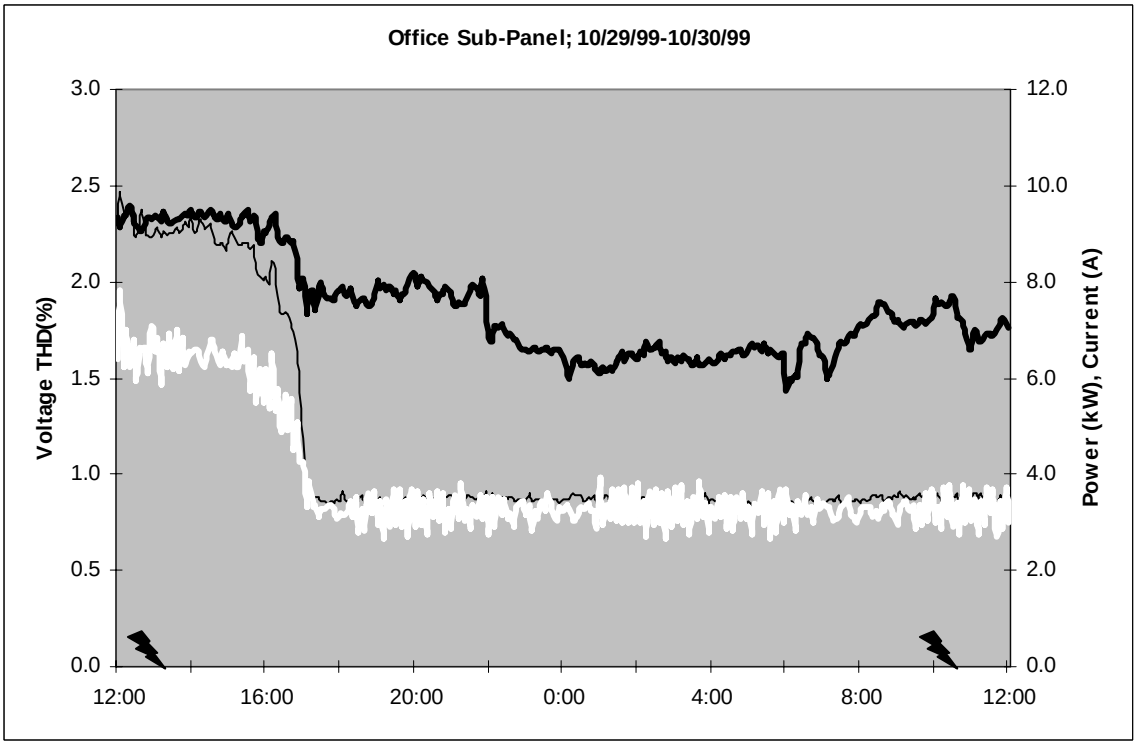

Meter Main; 10/28/99-10/29/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

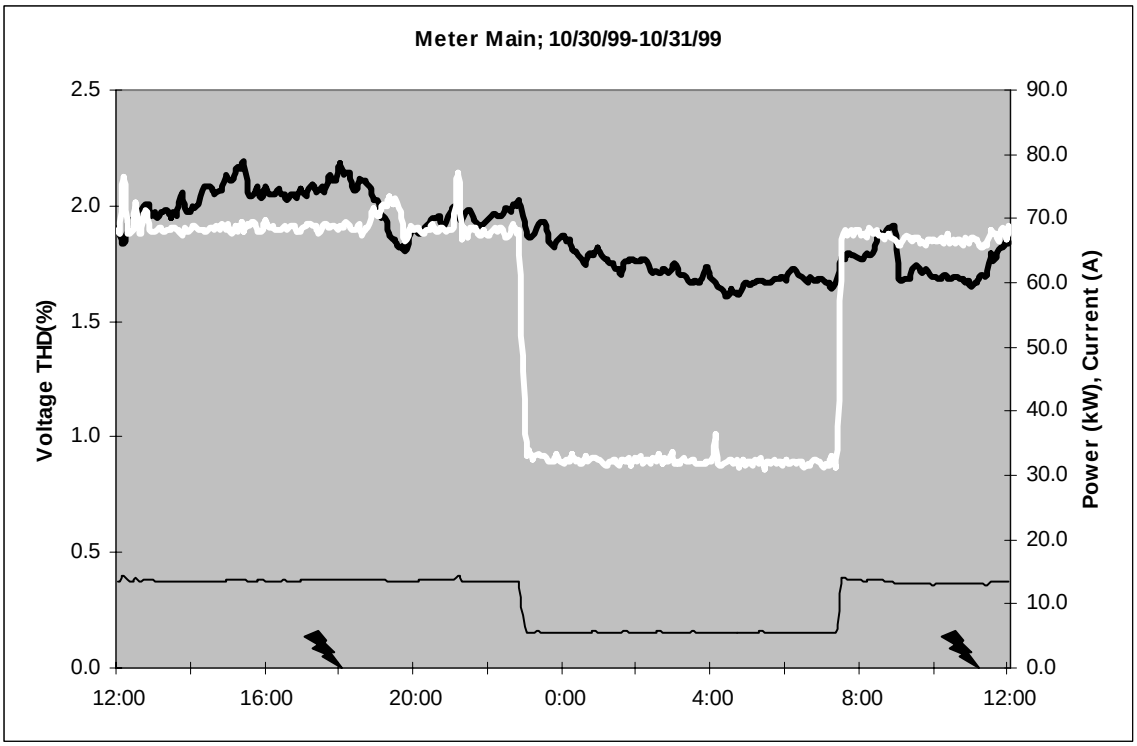

EV Sub-Panel; 10/28/99-10/29/99
Voltage THD(%)
Power (kW), Current (A)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

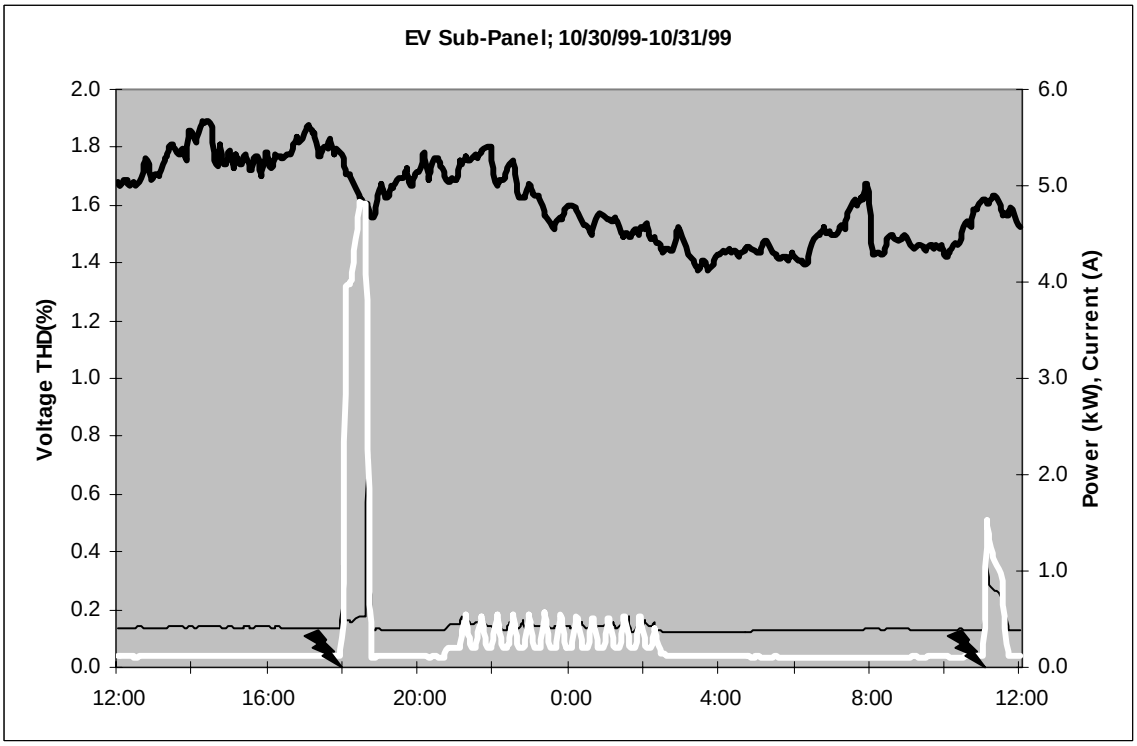

Office Sub-Panel; 10/28/99-10/29/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

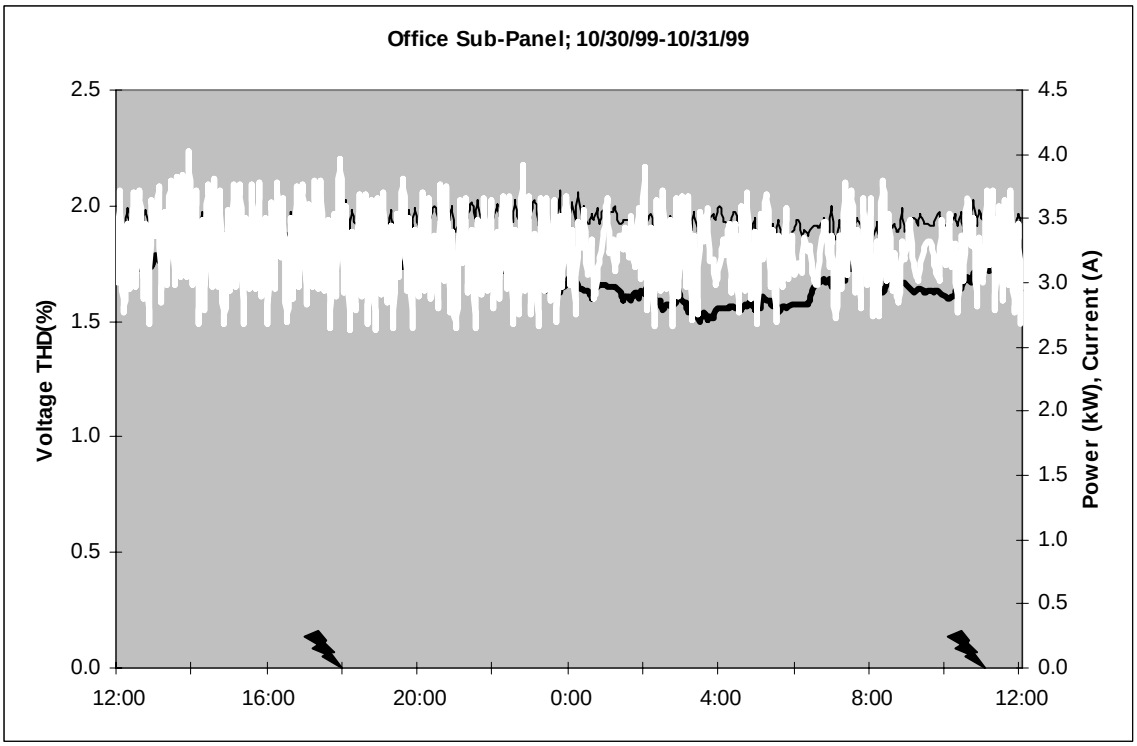

Meter Main; 10/29/99-10/30/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

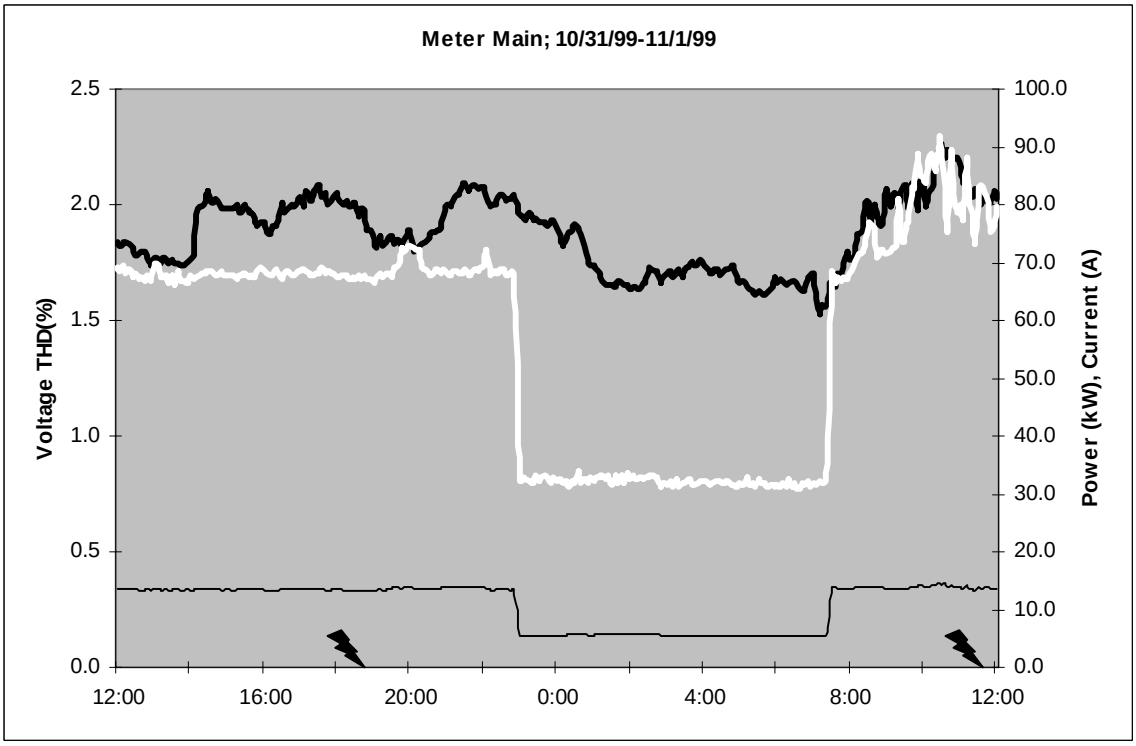

EV Sub-Panel; 10/29/99-10/30/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

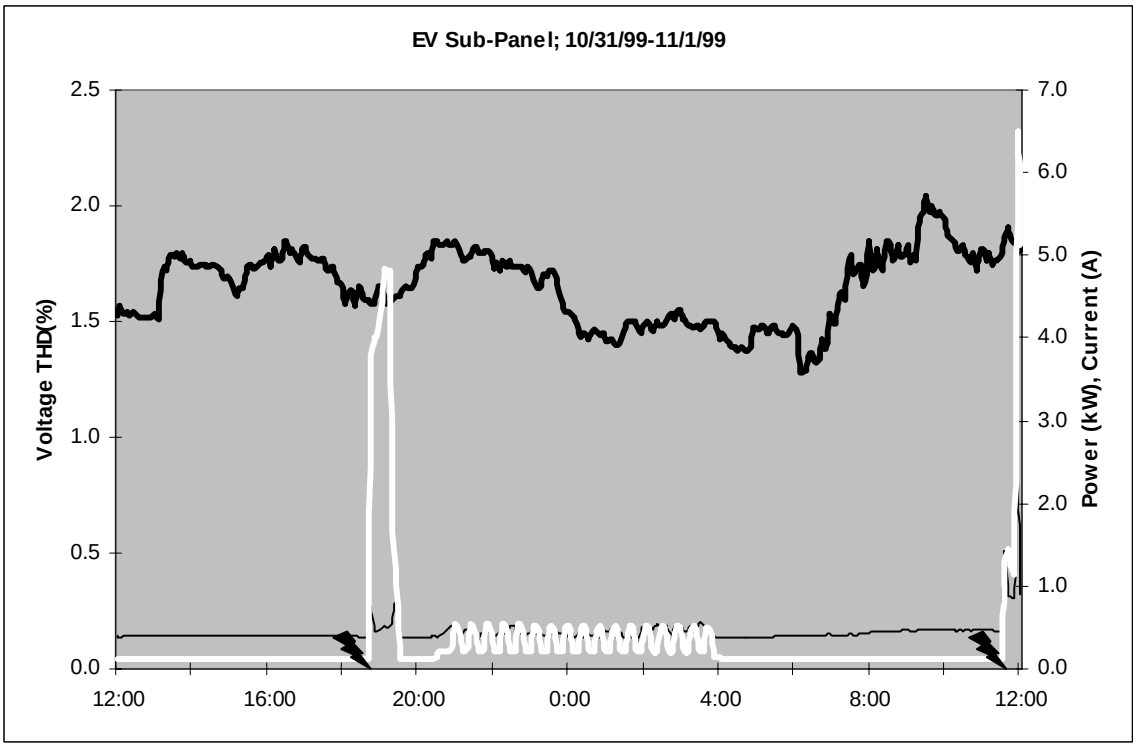

Office Sub-Panel; 10/29/99-10/30/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

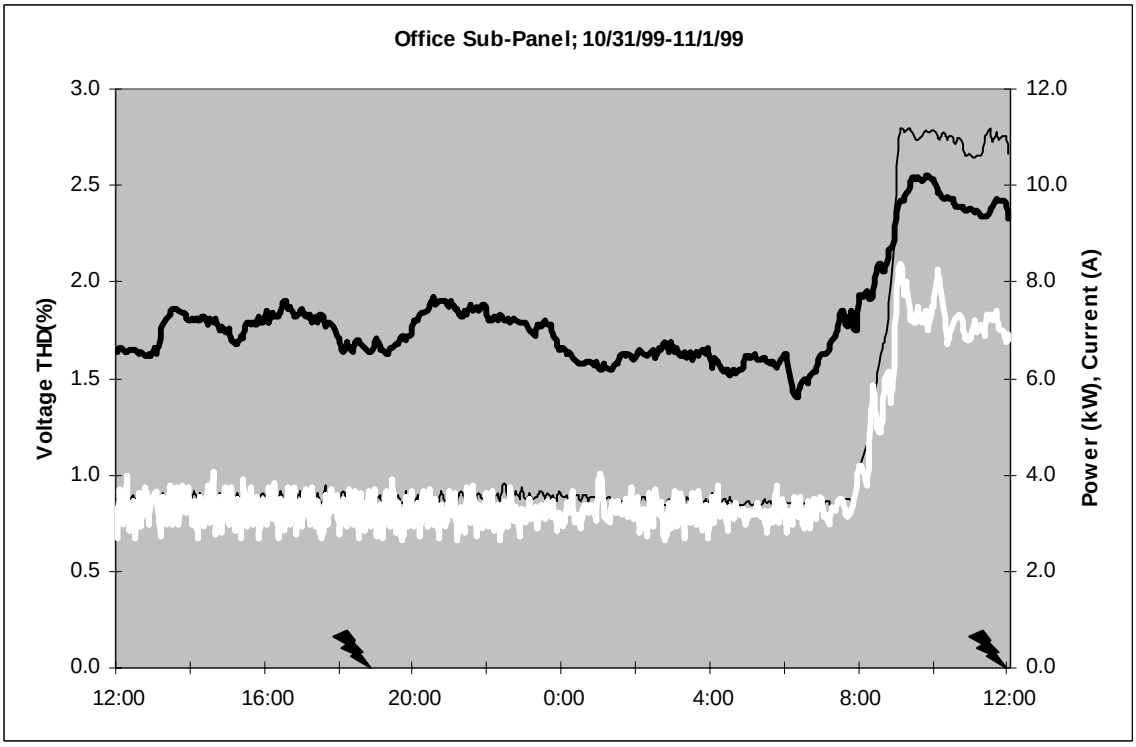

Meter Main; 10/30/99-10/31/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

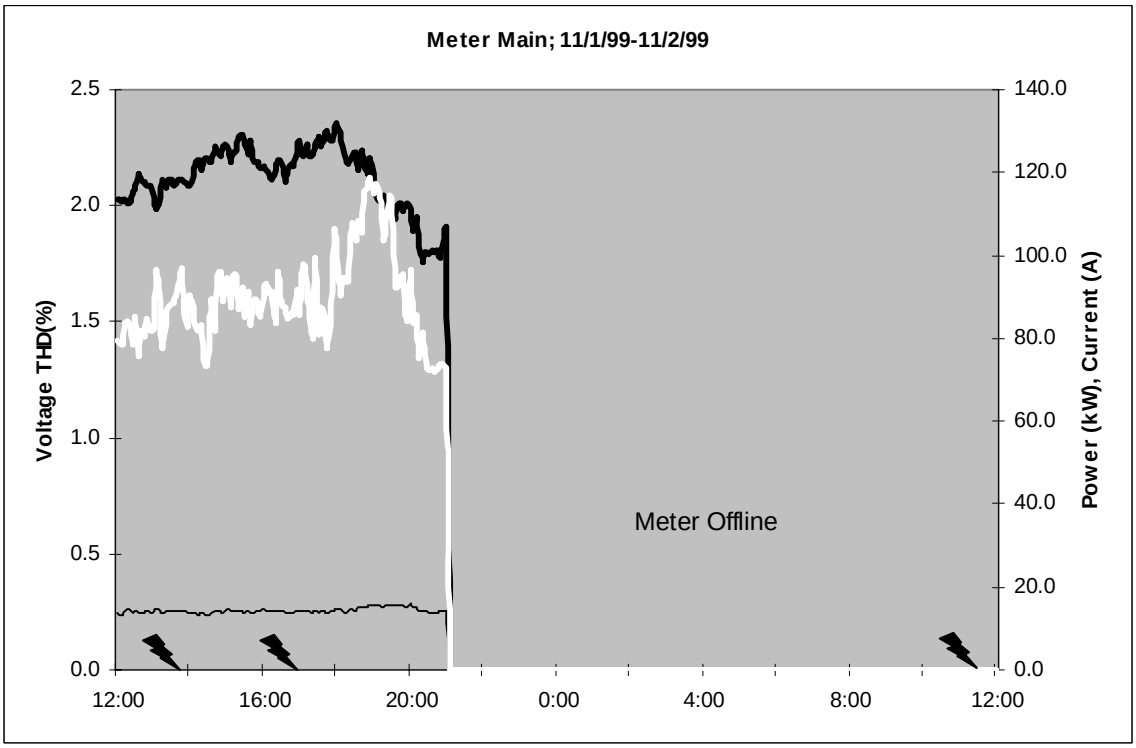

EV Sub-Panel; 10/30/99-10/31/99
Voltage THD(%)
Power (kW), Current (A)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

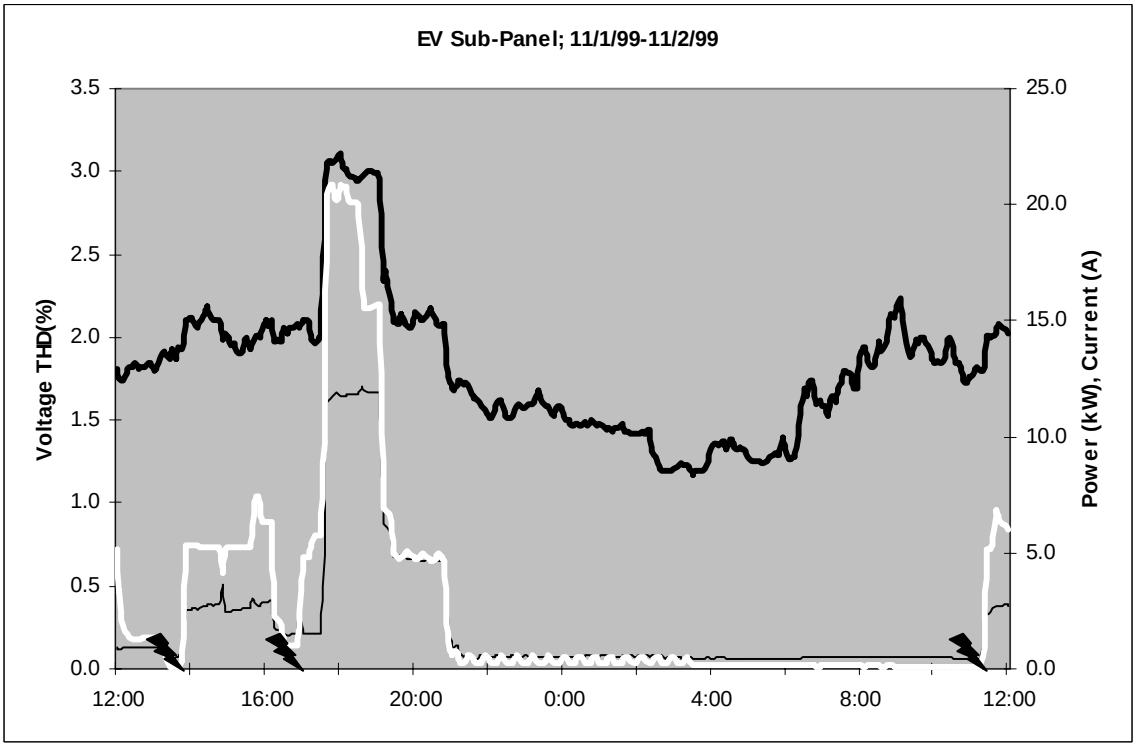

Office Sub-Panel; 10/30/99-10/31/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

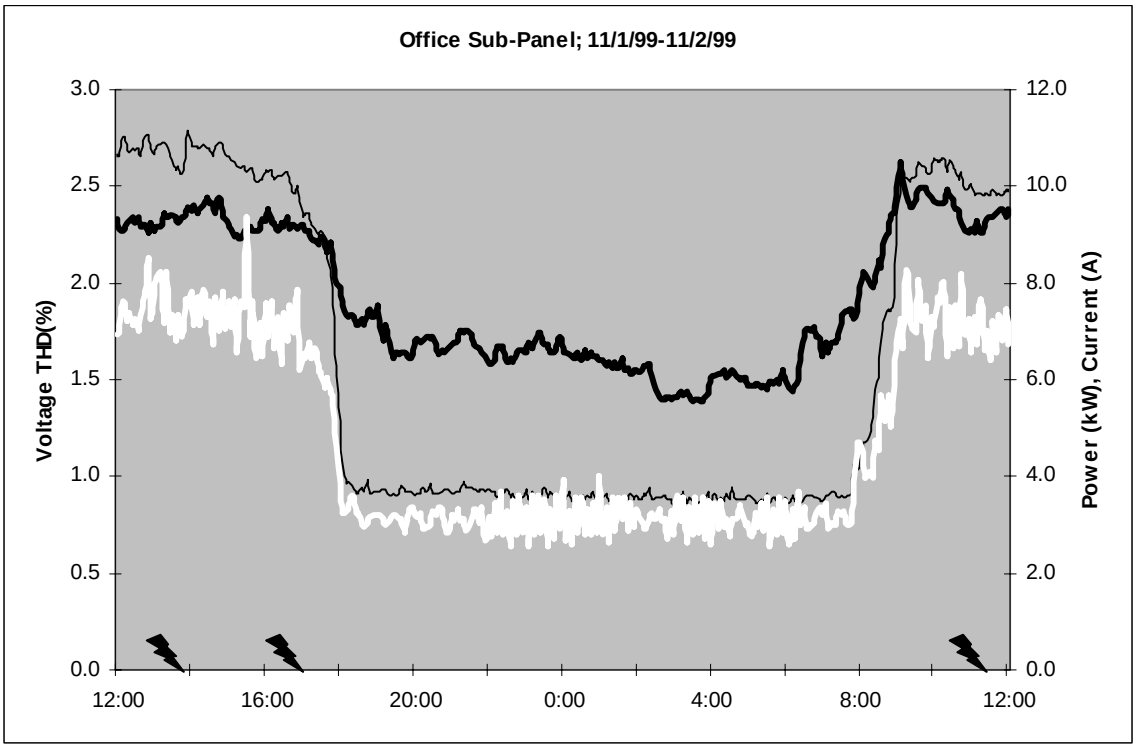

Meter Main; 10/31/99-11/1/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

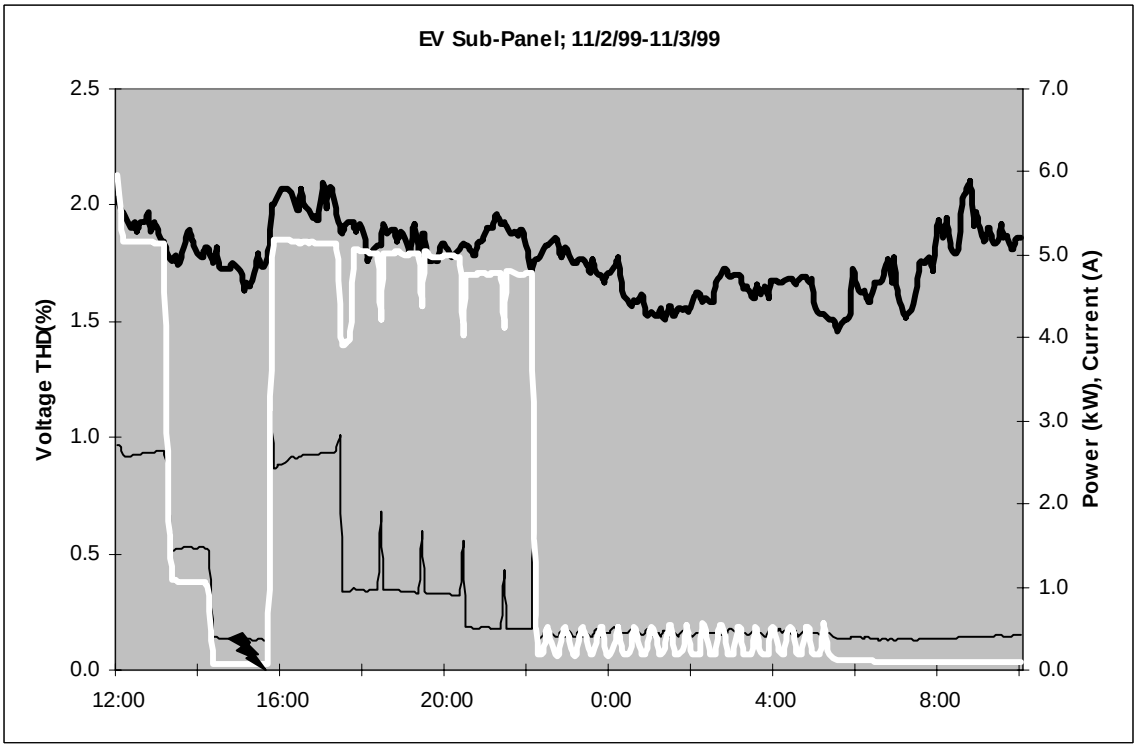

EV Sub-Panel; 10/31/99-11/1/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00

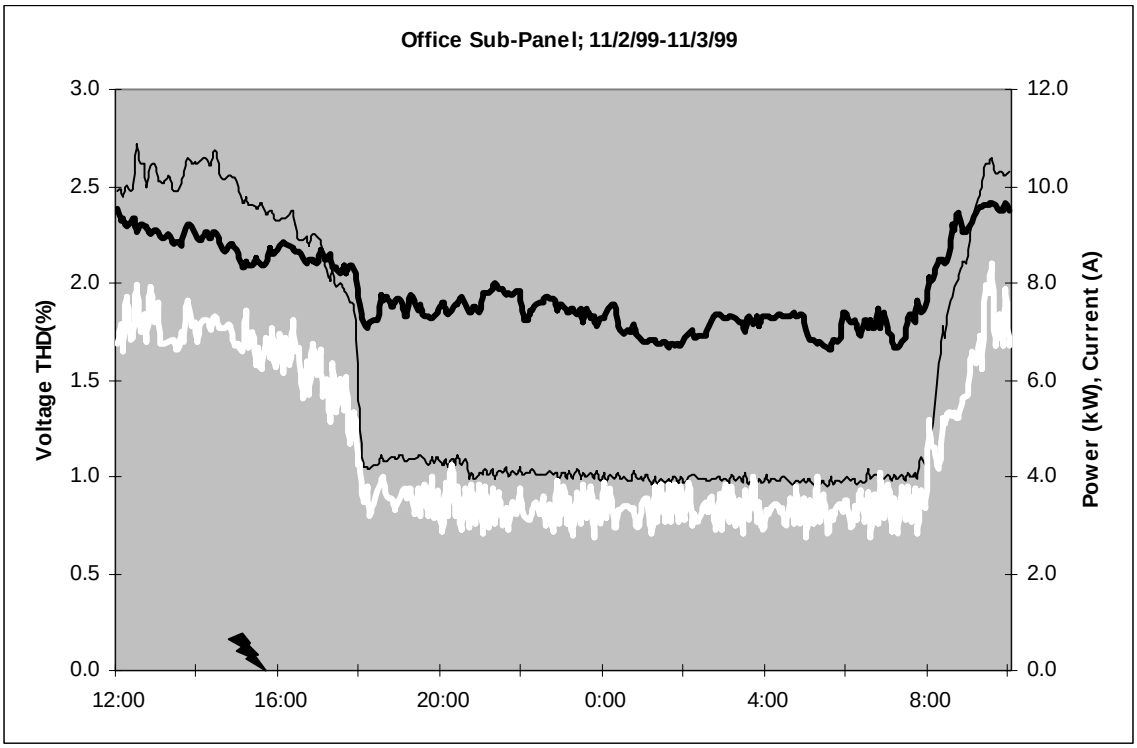
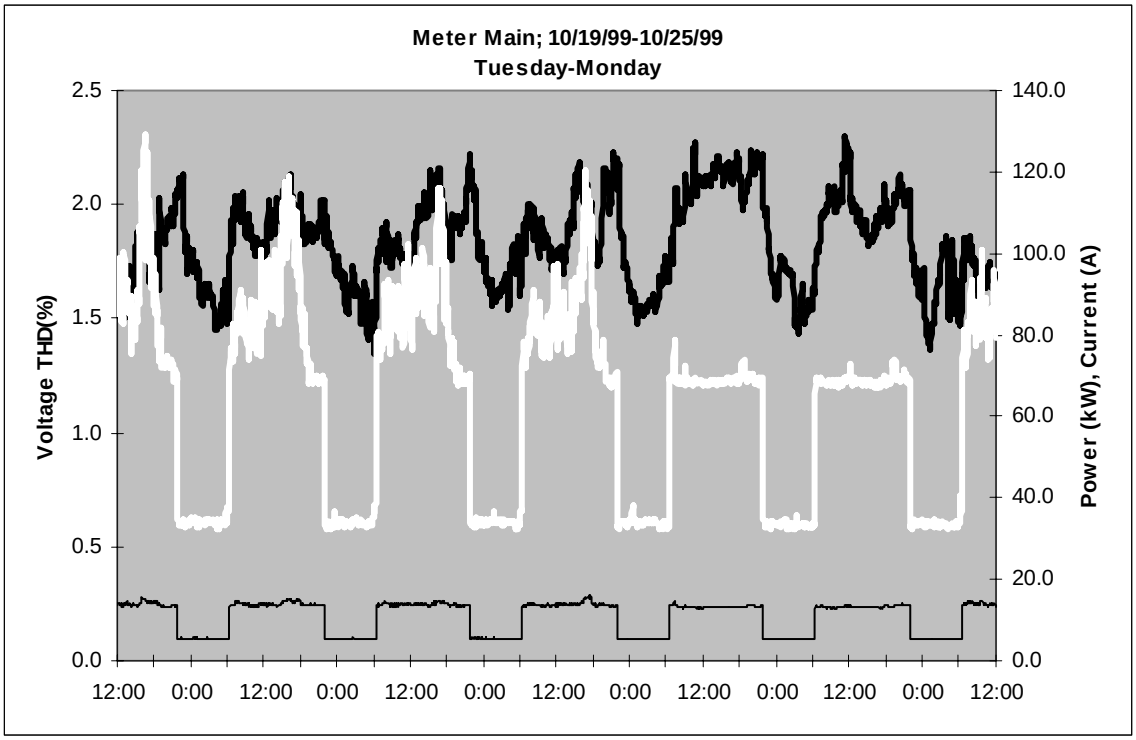
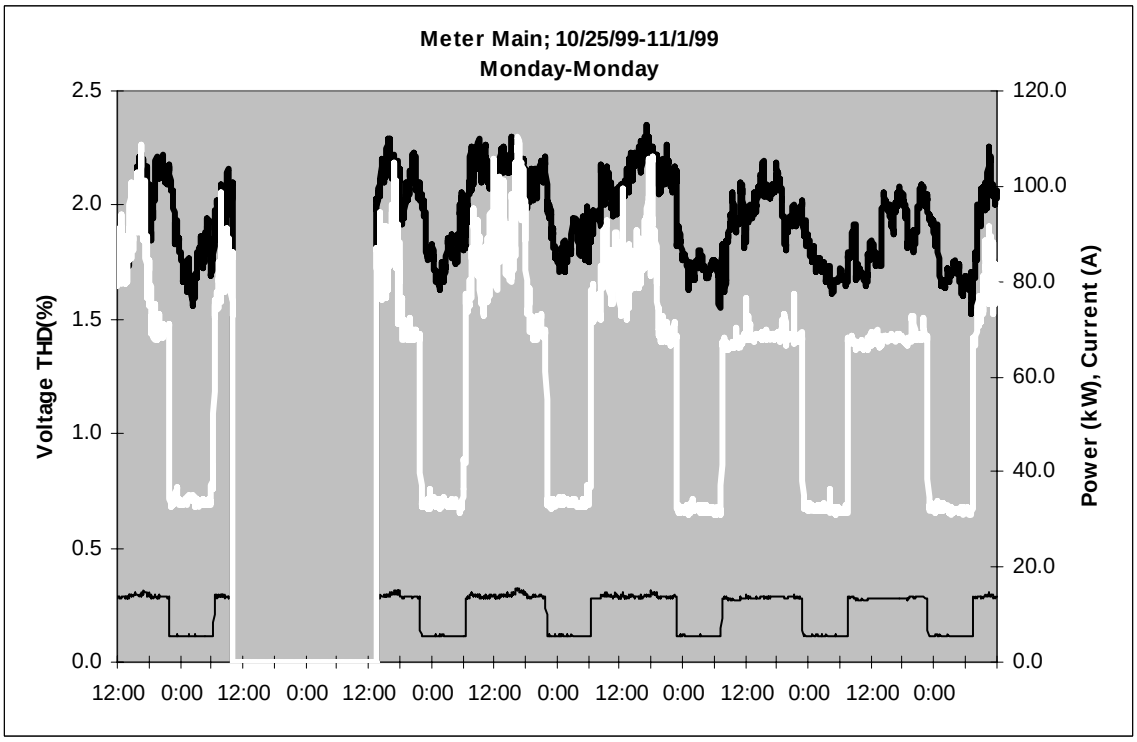

Office Sub-Panel; 10/31/99-11/1/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


Meter Main; 11/1/99-11/2/99
Voltage THD(%)
Power (kW), Current (A)
Meter Offline
2.5
2.0
1.5
1.0
0.5
0.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


EV Sub-Panel; 11/1/99-11/2/99
Voltage THD(%)
Power (kW), Current (A)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
25.0
20.0
15.0
10.0
5.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


Office Sub-Panel; 11/1/99-11/2/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00
12:00


EV Sub-Panel; 11/2/99-11/3/99
Voltage THD(%)
Power (kW), Current (A)
2.5
2.0
1.5
1.0
0.5
0.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00


Office Sub-Panel; 11/2/99-11/3/99
Voltage THD(%)
Power (kW), Current (A)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
12:00
16:00
20:00
0:00
4:00
8:00

UTILITY C WEEKLY GRAPHS