

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1	17:24:00	4.216	0.418	234.84	18.4	0	1	17
2	17:25:00	5.36	0.436	233.63	23	0	1	16
3	17:26:00	5.374	0.498	233.29	23	0	2	17
4	17:27:00	5.388	0.502	233.74	23	0	1	17
5	17:28:00	3.666	0.528	235.68	15.8	0	1	17
6	17:29:00	3.52	0.522	235.02	15	0	2	17
7	17:30:00	3.702	0.52	235.09	15.8	0	1	17
8	17:31:00	3.7	0.52	235.22	15.8	0	1	17
9	17:32:00	3.668	0.51	233.99	15.8	0	1	17
10	17:33:00	3.662	0.51	233.86	15.8	0	2	16
11	17:34:00	4.448	0.498	232.86	19.6	0	1	17
12	17:35:00	5.412	0.47	232.78	23.2	0	1	17
13	17:36:00	5.224	0.478	232.99	22.4	0	1	16
14	17:37:00	5.268	0.398	232.91	22.6	0	2	17
15	17:38:00	4.054	0.422	235.24	17.6	0	1	17
16	17:39:00	3.384	0.282	237.14	14.2	0	0	17
17	17:40:00	3.27	0.152	236.73	13.8	0	0	17
18	17:41:00	3.43	0.156	237.06	14.4	0	0	17
19	17:42:00	3.266	0	237.13	13.8	0	0	18
20	17:43:00	3.728	0	235.84	16.4	0	0	17
21	17:44:00	5.894	0	232.69	25.4	0	0	16
22	17:45:00	7.706	0	230.98	33.2	0	0	17
23	17:46:00	7.026	0	232.21	30.6	0	0	16
24	17:47:00	5.174	0	234.19	22	0	0	17
25	17:48:00	4.474	0	234.96	19.4	0	0	17
26	17:49:00	3.248	0	236.66	13.6	0	0	17
27	17:50:00	3.236	0	235.84	13.6	0	0	17
28	17:51:00	3.228	0	235.6	13.6	0	0	17
29	17:52:00	3.258	0	235.49	13.8	0	0	17
30	17:53:00	3.178	0	235.28	13.4	0	0	17
31	17:54:00	2.72	0	235.06	11.6	0	0	17
32	17:55:00	3.758	0.076	234.17	16.4	0	0	17
33	17:56:00	4.342	0.09	233.77	18.4	0	0	16
34	17:57:00	4.512	0	233.62	19.2	0	0	17
35	17:58:00	4.058	0.2	234.68	17.6	0	0	17
36	17:59:00	2.472	0.058	236.94	10.4	0	0	17
37	18:00:00	2.79	0.18	237.52	11.8	0	0	18
38	18:01:00	2.624	0.144	238.2	11	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
39	18:02:00	2.772	0.118	238.28	11.6	0	0	17
40	18:03:00	3.74	0.108	236.93	16.4	0	16	18
41	18:04:00	4.928	0.202	235.01	21	0	37	16
42	18:05:00	6.052	0.192	232.93	26.2	0	37	17
43	18:06:00	6.752	0.186	232.12	29	0	36	17
44	18:07:00	6.474	0.144	231.85	27.8	0	37	16
45	18:08:00	6.308	0.116	232.25	27	0	36	17
46	18:09:00	4.464	0.136	234.66	19	0	37	16
47	18:10:00	3.396	0.148	236.2	15	0	22	18
48	18:11:00	3.09	0.152	237.07	13.8	0	12	17
49	18:12:00	3.73	0.144	235.78	16.4	0	27	17
50	18:13:00	2.308	0.16	237.43	9.6	0	1	17
51	18:14:00	2.388	0.158	237.26	10	0	1	17
52	18:15:00	4.598	0.1	234.25	21.4	0	20	17
53	18:16:00	4.524	0.076	234.2	19.6	0	9	17
54	18:17:00	4.202	0.082	234.31	17.8	0	1	17
55	18:18:00	4.472	0	233.29	19.2	0	1	16
56	18:19:00	2.852	0	235.61	12	0	1	17
57	18:20:00	2.928	0	235.25	12.4	0	1	17
58	18:21:00	2.94	0	236.04	12.4	0	2	17
59	18:22:00	2.934	0	235.51	12.4	0	1	17
60	18:23:00	2.926	0	235.68	12.4	0	1	17
61	18:24:00	3.452	0	235.2	15.2	0	1	17
62	18:25:00	4.87	0	233.74	20.8	0	1	17
63	18:26:00	4.868	0	233.84	20.8	0	1	17
64	18:27:00	4.866	0	233.79	20.8	0	1	17
65	18:28:00	3.176	0	235.5	13.8	0	1	17
66	18:29:00	2.92	0	235.84	12.4	0	1	17
67	18:30:00	2.93	0	236.15	12.4	0	1	17
68	18:31:00	2.912	0.05	235.81	12.4	0	1	17
69	18:32:00	2.608	0.052	235.41	11	0	1	17
70	18:33:00	2.714	0.162	234.82	11.6	0	0	17
71	18:34:00	3.538	0.086	233.76	15.6	0	1	16
72	18:35:00	6.072	0	232.48	26.4	0	27	17
73	18:36:00	4.536	0	233.54	19.4	0	1	17
74	18:37:00	4.408	0	232.32	18.8	0	1	16
75	18:38:00	2.912	0.048	234.02	13	0	1	17
76	18:39:00	2.326	0.054	234.76	9.8	0	1	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
77	18:40:00	2.264	0.054	234.67	9.6	0	1	17
78	18:41:00	2.27	0.054	235.27	9.6	0	1	17
79	18:42:00	2.258	0.054	235.12	9.6	0	1	17
80	18:43:00	2.188	0.068	235.8	9.2	0	1	17
81	18:44:00	2.978	0.166	234.81	13.2	0	1	17
82	18:45:00	4.2	0.174	234.38	17.8	0	1	17
83	18:46:00	4.204	0.186	234.2	17.8	0	1	16
84	18:47:00	4.218	0.178	233.98	18	0	1	17
85	18:48:00	2.786	0.188	234.99	12	0	2	17
86	18:49:00	2.54	0.088	234.67	10.8	0	4	17
87	18:50:00	2.496	0.08	233.92	10.6	0	3	17
88	18:51:00	2.336	0.07	233.51	10	0	1	16
89	18:52:00	2.322	0	233.44	9.8	0	0	17
90	18:53:00	2.448	0	233.64	10.6	0	1	17
91	18:54:00	4.298	0	232.39	18.4	0	1	16
92	18:55:00	4.23	0.09	232.25	18.2	0	1	17
93	18:56:00	4.23	0.09	232.32	18.2	0	2	16
94	18:57:00	3.924	0.084	232.79	17	0	1	17
95	18:58:00	4.218	0.09	232.09	18	0	1	17
96	18:59:00	4.224	0.09	231.96	18.2	0	1	16
97	19:00:00	4.07	0.088	231.99	17.4	0	1	17
98	19:01:00	3.612	0.09	232.36	15.6	0	2	16
99	19:02:00	3.458	0.09	232.71	14.8	0	1	17
100	19:03:00	3.434	0.09	232.01	14.8	0	1	16
101	19:04:00	3.366	0	232.78	14.4	0	1	17
102	19:05:00	3.404	0.082	233.08	14.6	0	2	16
103	19:06:00	3.382	0.074	233.69	14.4	0	0	17
104	19:07:00	3.616	0.106	234.44	15.4	0	4	17
105	19:08:00	3.476	0.092	234.6	14.8	0	3	17
106	19:09:00	3.394	0.064	235.12	14.4	0	0	17
107	19:10:00	3.4	0	234.28	14.4	0	1	17
108	19:11:00	3.414	0	234.19	14.4	0	1	17
109	19:12:00	3.432	0	234.69	14.6	0	1	16
110	19:13:00	3.418	0	234.26	14.6	0	2	17
111	19:14:00	3.392	0	233.3	14.4	0	1	17
112	19:15:00	3.394	0	233.43	14.4	0	1	17
113	19:16:00	3.394	0	233.45	14.4	0	1	16
114	19:17:00	3.406	0	233.91	14.4	0	2	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
115	19:18:00	3.42	0	234.43	14.6	0	1	17
116	19:19:00	3.418	0	234.34	14.4	0	1	17
117	19:20:00	3.422	0.052	234.58	14.6	0	1	17
118	19:21:00	3.332	0	234.02	14.2	0	1	16
119	19:22:00	3.316	0.046	234.29	14	0	1	17
120	19:23:00	3.334	0	234.36	14.2	0	2	17
121	19:24:00	3.262	0.052	232.64	14	0	0	17
122	19:25:00	3.476	0.064	232.96	14.8	0	3	16
123	19:26:00	3.62	0.09	233.47	15.4	0	5	17
124	19:27:00	3.61	0.084	234.98	15.2	0	5	17
125	19:28:00	3.646	0.138	234.34	15.4	0	5	17
126	19:29:00	3.614	0.192	233.92	15.4	0	5	17
127	19:30:00	3.408	0.162	233.94	14.4	0	2	16
128	19:31:00	3.388	0.134	233.72	14.4	0	1	17
129	19:32:00	3.372	0.132	233.2	14.4	0	2	17
130	19:33:00	3.37	0.132	233.1	14.4	0	1	16
131	19:34:00	3.342	0.12	232.29	14.4	0	1	17
132	19:35:00	3.284	0	232.45	14	0	2	16
133	19:36:00	3.276	0	231.97	14	0	1	17
134	19:37:00	3.382	0.13	232.42	14.4	0	2	17
135	19:38:00	3.418	0.16	233.38	14.6	0	1	16
136	19:39:00	3.396	0.158	232.69	14.6	0	1	17
137	19:40:00	3.406	0.158	233.2	14.6	0	2	16
138	19:41:00	3.406	0.158	233.26	14.6	0	1	17
139	19:42:00	3.392	0.156	232.84	14.4	0	1	17
140	19:43:00	3.378	0.154	232.39	14.4	0	2	16
141	19:44:00	3.368	0.154	232.14	14.4	0	1	17
142	19:45:00	3.35	0.152	231.57	14.4	0	1	16
143	19:46:00	3.352	0.152	231.66	14.4	0	2	17
144	19:47:00	3.364	0.154	232.22	14.4	0	1	16
145	19:48:00	3.38	0.156	232.81	14.4	0	1	17
146	19:49:00	3.404	0.16	233.77	14.4	0	1	17
147	19:50:00	3.378	0.156	232.82	14.4	0	2	16
148	19:51:00	3.388	0.158	233.22	14.4	0	1	17
149	19:52:00	3.376	0.156	232.84	14.4	0	1	17
150	19:53:00	3.254	0	232.75	13.8	0	0	16
151	19:54:00	3.214	0.078	232.64	13.8	0	0	17
152	19:55:00	3.202	0.078	232.2	13.8	0	0	16

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
153	19:56:00	3.202	0.078	232.2	13.8	0	0	17
154	19:57:00	3.212	0.078	232.58	13.8	0	0	16
155	19:58:00	3.206	0.078	232.4	13.8	0	0	17
156	19:59:00	3.214	0.078	232.66	13.8	0	0	17
157	20:00:00	3.206	0.078	232.43	13.8	0	0	16
158	20:01:00	3.222	0.078	233.02	13.8	0	0	17
159	20:02:00	3.216	0.076	232.8	13.8	0	0	16
160	20:03:00	3.216	0.078	232.79	13.8	0	0	17
161	20:04:00	3.194	0.078	231.98	13.6	0	0	16
162	20:05:00	3.278	0	232.88	14	0	0	17
163	20:06:00	3.282	0	232.52	14	0	0	17
164	20:07:00	3.292	0	232.87	14	0	0	16
165	20:08:00	3.316	0	233.78	14	0	0	17
166	20:09:00	3.37	0.08	233.69	14.4	0	0	17
167	20:10:00	3.42	0.144	234.04	14.6	0	0	17
168	20:11:00	3.41	0.142	233.93	14.6	0	0	16
169	20:12:00	3.4	0.14	233.62	14.4	0	0	17
170	20:13:00	3.4	0.14	233.64	14.4	0	0	17
171	20:14:00	3.388	0.14	233.26	14.4	0	0	16
172	20:15:00	3.37	0.086	233.9	14.4	0	0	17
173	20:16:00	3.332	0	233.68	14.2	0	0	17
174	20:17:00	3.31	0	232.83	14.2	0	0	17
175	20:18:00	3.312	0	233	14.2	0	0	16
176	20:19:00	3.314	0	233.08	14.2	0	0	17
177	20:20:00	3.302	0	232.69	14.2	0	0	16
178	20:21:00	3.302	0	232.91	14	0	0	17
179	20:22:00	3.3	0	232.87	14	0	0	17
180	20:23:00	3.29	0	232.42	14	0	0	16
181	20:24:00	3.286	0	232.31	14	0	0	17
182	20:25:00	3.23	0.052	232.79	13.8	0	0	16
183	20:26:00	3.218	0.078	233.05	13.8	0	0	17
184	20:27:00	3.258	0.076	234.57	13.8	0	0	17
185	20:28:00	3.264	0.076	234.79	13.8	0	0	17
186	20:29:00	3.26	0.076	234.6	13.8	0	0	17
187	20:30:00	3.262	0.076	234.54	13.8	0	0	17
188	20:31:00	3.264	0.076	234.6	13.8	0	0	16
189	20:32:00	3.238	0.076	233.77	13.8	0	0	17
190	20:33:00	3.228	0.078	233.5	13.8	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
191	20:34:00	3.222	0.078	233.27	13.8	0	0	17
192	20:35:00	3.226	0.078	233.37	13.8	0	0	16
193	20:36:00	3.206	0.078	232.64	13.6	0	0	17
194	20:37:00	3.188	0.08	231.95	13.6	0	0	16
195	20:38:00	3.196	0.08	232.21	13.6	0	0	17
196	20:39:00	3.204	0.078	232.5	13.6	0	0	16
197	20:40:00	3.232	0.078	233.63	13.8	0	0	17
198	20:41:00	3.254	0.074	234.43	13.8	0	0	17
199	20:42:00	3.376	0.05	234.63	14.4	0	0	17
200	20:43:00	3.372	0.048	235.05	14.2	0	0	17
201	20:44:00	3.366	0.048	234.96	14.2	0	0	17
202	20:45:00	3.386	0.05	235.77	14.2	0	0	17
203	20:46:00	3.496	0.146	236.76	14.8	0	0	17
204	20:47:00	3.426	0.146	234.59	14.6	0	0	17
205	20:48:00	3.44	0.148	235.13	14.6	0	0	17
206	20:49:00	3.44	0.146	235.14	14.6	0	0	17
207	20:50:00	3.454	0.15	235.75	14.6	0	0	17
208	20:51:00	3.45	0.15	235.69	14.6	0	0	17
209	20:52:00	3.48	0.154	236.86	14.6	0	0	17
210	20:53:00	3.474	0.152	236.72	14.6	0	0	17
211	20:54:00	3.456	0.15	236.05	14.6	0	0	17
212	20:55:00	1.832	0.17	237.54	8.4	0	0	17
213	20:56:00	2.044	0.102	237.44	9.4	0	0	18
214	20:57:00	3.354	0	237	14	0	0	17
215	20:58:00	3.282	0.074	235.55	13.8	0	0	17
216	20:59:00	3.308	0.074	236.51	14	0	0	17
217	21:00:00	3.314	0.072	236.76	14	0	0	17
218	21:01:00	3.306	0.072	237.11	13.8	0	0	17
219	21:02:00	1.692	0.054	238.72	7.8	0	0	18
220	21:03:00	3.342	0.07	237.66	14	0	0	17
221	21:04:00	3.354	0.07	238.2	14	0	0	17
222	21:05:00	3.334	0.072	237.46	14	0	0	18
223	21:06:00	3.33	0.072	237.36	14	0	0	17
224	21:07:00	2.74	0.064	238.13	12	0	0	17
225	21:08:00	2.188	0.06	237.74	10	0	0	18
226	21:09:00	3.33	0.07	237.26	14	0	0	17
227	21:10:00	3.34	0.07	237.69	14	0	0	17
228	21:11:00	3.306	0.072	236.44	14	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
229	21:12:00	3.044	0.072	236.23	13.2	0	0	17
230	21:13:00	1.766	0.058	237.7	8.2	0	0	18
231	21:14:00	3.376	0	235.73	14.2	0	0	17
232	21:15:00	3.414	0.052	236.51	14.4	0	0	17
233	21:16:00	3.426	0.054	237.11	14.4	0	0	17
234	21:17:00	3.42	0.054	237.06	14.4	0	0	17
235	21:18:00	1.876	0.074	238.63	8.6	0	0	18
236	21:19:00	3.442	0.056	237.58	14.4	0	0	17
237	21:20:00	3.414	0.054	236.87	14.4	0	0	17
238	21:21:00	3.412	0.056	236.94	14.4	0	0	17
239	21:22:00	2.542	0.068	238.17	11.4	0	0	18
240	21:23:00	2.82	0.062	237.42	12.4	0	0	17
241	21:24:00	3.41	0.054	236.91	14.4	0	0	17
242	21:25:00	3.392	0.052	236.24	14.2	0	0	17
243	21:26:00	2.878	0.06	237.17	12.6	0	0	17
244	21:27:00	1.848	0.112	238.59	8.4	0	0	18
245	21:28:00	3.494	0.144	237.43	14.6	0	0	17
246	21:29:00	3.42	0	237.73	14.2	0	0	17
247	21:30:00	3.226	0	237.2	13.8	0	0	18
248	21:31:00	1.948	0	238.41	9	0	0	17
249	21:32:00	3.392	0	236.6	14.2	0	0	17
250	21:33:00	3.368	0	236.12	14.2	0	0	17
251	21:34:00	3.378	0	236.54	14.2	0	0	17
252	21:35:00	1.872	0	238.48	8.6	0	0	18
253	21:36:00	3.212	0	237.27	13.6	0	0	17
254	21:37:00	3.346	0	237.06	14	0	0	17
255	21:38:00	3.308	0.072	236.49	14	0	0	17
256	21:39:00	3.302	0.072	236.28	13.8	0	0	17
257	21:40:00	2.36	0.064	236.89	10.8	0	0	18
258	21:41:00	2.652	0.046	236.64	11.8	0	0	17
259	21:42:00	3.392	0	236.58	14.2	0	1	17
260	21:43:00	3.398	0	236.83	14.2	0	2	17
261	21:44:00	3.424	0.046	237.75	14.4	0	1	17
262	21:45:00	1.86	0.066	239.69	8.4	0	2	18
263	21:46:00	3.25	0.082	238.95	13.8	0	1	17
264	21:47:00	3.502	0.172	236.46	14.8	0	1	18
265	21:48:00	3.484	0.17	235.98	14.6	0	2	17
266	21:49:00	3.478	0.168	235.85	14.6	0	1	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
267	21:50:00	1.696	0.194	238.19	7.6	0	2	17
268	21:51:00	3.494	0.17	236.28	14.8	0	1	17
269	21:52:00	3.482	0.17	236.4	14.6	0	1	17
270	21:53:00	3.48	0.17	236.46	14.6	0	2	17
271	21:54:00	3.474	0.168	236.28	14.6	0	1	17
272	21:55:00	2.308	0.184	237.33	10.6	0	1	18
273	21:56:00	2.926	0.178	237.09	12.8	0	2	17
274	21:57:00	3.472	0.17	236.39	14.6	0	1	17
275	21:58:00	3.48	0.17	236.75	14.6	0	1	17
276	21:59:00	3.454	0.168	235.73	14.6	0	2	17
277	22:00:00	3.464	0.17	236.03	14.6	0	1	17
278	22:01:00	1.786	0.096	237.68	8.2	0	1	18
279	22:02:00	3.182	0	235.99	13.6	0	1	17
280	22:03:00	3.378	0	236.26	14.2	0	2	17
281	22:04:00	3.372	0	236.03	14.2	0	1	17
282	22:05:00	3.362	0	235.7	14.2	0	1	17
283	22:06:00	3.112	0	236.08	13.4	0	1	17
284	22:07:00	1.614	0.056	237.31	7.4	0	0	17
285	22:08:00	3.358	0	236.14	14.2	0	0	17
286	22:09:00	3.388	0	236.61	14.2	0	0	17
287	22:10:00	3.392	0	236.93	14.2	0	0	17
288	22:11:00	2.81	0	237.97	12.4	0	0	18
289	22:12:00	2.18	0	238.02	10	0	0	17
290	22:13:00	3.37	0	236.06	14.2	0	0	17
291	22:14:00	3.326	0	234.45	14	0	0	17
292	22:15:00	2.778	0	235.31	12	0	0	9
293	22:16:00	2.358	0	237.1	9.8	0	0	0
294	22:17:00	0.96	0.054	238.68	5.6	0	0	0
295	22:18:00	1.606	0	238.76	7.8	0	0	0
296	22:19:00	2.35	0	238.59	9.8	0	0	0
297	22:20:00	2.428	0.068	238.87	10	0	0	0
298	22:21:00	2.078	0.072	238.97	9.2	0	0	0
299	22:22:00	0.78	0.09	239.93	4.6	0	0	0
300	22:23:00	2.426	0.068	239.05	10	0	0	0
301	22:24:00	2.412	0.066	238.46	10	0	0	0
302	22:25:00	2.428	0.07	239.68	10	0	0	0
303	22:26:00	1.53	0.084	240.72	7.6	0	0	0
304	22:27:00	1.388	0.086	240.87	7.2	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
305	22:28:00	2.424	0.07	239.71	10	0	0	0
306	22:29:00	2.428	0.072	239.89	10	0	0	0
307	22:30:00	2.388	0.07	239.48	10	0	0	0
308	22:31:00	0.376	0.1	241.64	1.6	0	0	0
309	22:32:00	2.202	0.074	240.07	9.6	0	0	0
310	22:33:00	2.43	0.07	239.77	10	0	0	0
311	22:34:00	2.346	0.052	240.05	9.6	0	0	0
312	22:35:00	1.916	0.054	239.75	8.6	0	0	0
313	22:36:00	0.384	0	240.58	2.4	0	0	0
314	22:37:00	2.334	0.06	239.2	9.6	0	0	0
315	22:38:00	2.32	0.06	238.84	9.6	0	0	0
316	22:39:00	2.306	0.062	238.39	9.6	0	0	0
317	22:40:00	2.306	0.064	238.39	9.6	0	0	0
318	22:41:00	0.436	0	241.06	2.8	0	0	0
319	22:42:00	1.584	0.05	240.89	7.8	0	0	0
320	22:43:00	2.328	0.062	239.46	9.6	0	0	0
321	22:44:00	2.326	0.062	239.27	9.6	0	0	0
322	22:45:00	2.334	0.06	239.57	9.6	0	0	0
323	22:46:00	1.846	0.054	239.99	8.4	0	0	0
324	22:47:00	0.284	0	242.04	1.2	0	0	0
325	22:48:00	2.342	0.06	239.89	9.8	0	0	0
326	22:49:00	2.392	0	239.91	10	0	0	0
327	22:50:00	2.414	0	240.02	10	0	0	0
328	22:51:00	2.414	0	239.97	10	0	0	0
329	22:52:00	0.754	0.086	241.27	4.4	0	0	0
330	22:53:00	1.42	0.178	238.64	7.4	0	0	0
331	22:54:00	2.468	0.162	237.47	10.4	0	0	0
332	22:55:00	2.474	0.164	238.05	10.4	0	0	0
333	22:56:00	2.488	0.168	239.03	10.4	0	0	0
334	22:57:00	1.81	0.182	240.28	8.6	0	0	0
335	22:58:00	0.674	0.2	241.36	4	0	0	0
336	22:59:00	2.444	0.094	239.42	10.2	0	0	0
337	23:00:00	2.41	0.068	238.9	10	0	0	0
338	23:01:00	2.412	0.07	239.13	10	0	0	0
339	23:02:00	2.206	0.072	239.37	9.4	0	0	0
340	23:03:00	0.37	0.1	241.58	1.6	0	0	0
341	23:04:00	2.104	0.076	240.11	9.2	0	0	0
342	23:05:00	2.404	0.068	238.73	10	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
343	23:06:00	2.418	0.07	239.52	10	0	0	0
344	23:07:00	2.342	0	239.74	9.6	0	0	0
345	23:08:00	1.262	0.046	240.96	6.8	0	0	0
346	23:09:00	0.852	0	241.64	5.2	0	0	0
347	23:10:00	2.34	0.06	240.05	9.6	0	0	0
348	23:11:00	2.336	0.06	240.07	9.6	0	0	0
349	23:12:00	2.334	0.06	239.99	9.6	0	0	0
350	23:13:00	2.33	0.06	239.74	9.6	0	0	0
351	23:14:00	1.038	0	241.17	6	0	0	0
352	23:15:00	0.386	0	242.39	2.4	0	0	0
353	23:16:00	2.35	0.06	240.41	9.6	0	0	0
354	23:17:00	2.346	0.06	240.5	9.6	0	0	0
355	23:18:00	2.346	0.06	240.55	9.6	0	0	0
356	23:19:00	1.834	0.052	240.97	8.4	0	0	0
357	23:20:00	1.222	0.046	241.58	6.6	0	0	0
358	23:21:00	2.342	0.06	240.21	9.6	0	0	0
359	23:22:00	2.334	0.06	239.98	9.6	0	0	0
360	23:23:00	1.666	0.052	240.65	8	0	0	0
361	23:24:00	1.198	0	241.68	6.6	0	0	0
362	23:25:00	2.35	0.058	240.7	9.6	0	0	0
363	23:26:00	2.398	0	240.7	9.8	0	0	0
364	23:27:00	2.444	0.072	240.11	10.2	0	0	0
365	23:28:00	0.406	0.098	241.71	2	0	0	0
366	23:29:00	2.434	0.072	240.13	10	0	0	0
367	23:30:00	2.502	0.136	240.24	10.4	0	0	0
368	23:31:00	2.518	0.176	240.53	10.4	0	0	0
369	23:32:00	1.516	0.19	241.36	7.6	0	0	0
370	23:33:00	1.498	0.188	241.02	7.6	0	0	0
371	23:34:00	2.508	0.174	240.06	10.4	0	0	0
372	23:35:00	2.504	0.174	240.09	10.4	0	0	0
373	23:36:00	2.492	0.172	239.49	10.4	0	0	0
374	23:37:00	0.814	0.204	242.16	4.8	0	0	0
375	23:38:00	2.304	0.18	240.95	9.8	0	0	0
376	23:39:00	2.53	0.182	241.74	10.4	0	0	0
377	23:40:00	2.378	0	241.18	9.8	0	0	0
378	23:41:00	0.384	0	243.73	2.4	0	0	0
379	23:42:00	2.37	0.058	241.48	9.8	0	0	0
380	23:43:00	2.358	0.058	241.13	9.6	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
381	23:44:00	2.352	0.058	240.96	9.6	0	0	0
382	23:45:00	0.416	0	242.94	2.4	0	0	0
383	23:46:00	2.654	0.062	240.74	11	0	0	0
384	23:47:00	2.54	0.06	241.23	10.4	0	0	0
385	23:48:00	2.526	0.058	241.79	10.8	0	0	0
386	23:49:00	1.206	0	241.83	5.4	0	0	0
387	23:50:00	3.844	0.148	238.71	16.6	0	0	0
388	23:51:00	4.122	0.14	237.99	17.6	0	0	0
389	23:52:00	3.458	0	238.89	14.8	0	0	0
390	23:53:00	1.988	0.05	240.26	9.2	0	0	0
391	23:54:00	0.596	0	240.88	2.4	0	0	0
392	23:55:00	1.29	0	240.69	6.8	0	0	0
393	23:56:00	2.73	0.06	239.43	11.4	0	1	0
394	23:57:00	2.734	0.062	239.81	11.4	0	2	0
395	23:58:00	2.764	0.066	241.27	11.4	0	1	0
396	23:59:00	2.586	0.07	241.63	11	0	1	0
397	0:00:00	1.044	0.152	242.73	4.4	0	2	0
398	0:01:00	1.52	0.22	242.2	7.4	0	1	0
399	0:02:00	3.038	0.194	240.14	12.6	0	2	0
400	0:03:00	2.974	0.194	239.97	12.4	0	1	0
401	0:04:00	2.846	0.198	240.39	11.8	0	2	0
402	0:05:00	2.848	0.198	240.59	11.8	0	1	0
403	0:06:00	2.858	0.202	241.14	11.8	0	1	0
404	0:07:00	2.472	0.208	241.62	10.8	0	2	0
405	0:08:00	0.658	0.244	243.75	3	0	1	0
406	0:09:00	0.838	0.334	242.09	4.8	0	2	0
407	0:10:00	2.608	0.298	239.45	10.8	0	1	0
408	0:11:00	2.598	0.296	239.44	10.8	0	1	0
409	0:12:00	2.56	0.286	238.71	10.8	0	2	0
410	0:13:00	2.526	0.278	236.95	10.6	0	1	0
411	0:14:00	2.472	0.194	237.55	10.4	0	1	0
412	0:15:00	1.658	0.166	238.48	8	0	1	0
413	0:16:00	0.422	0.184	239.79	1.8	0	2	0
414	0:17:00	0.79	0.178	239.47	4.6	0	1	0
415	0:18:00	2.436	0.12	238.51	10.2	0	1	0
416	0:19:00	2.396	0.056	239.03	10	0	1	0
417	0:20:00	2.338	0	238.37	9.8	0	1	0
418	0:21:00	2.304	0.062	238.38	9.6	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
419	0:22:00	0.276	0	240.56	1.2	0	0	0
420	0:23:00	0.712	0	239.84	4.6	0	0	0
421	0:24:00	2.332	0.06	239.11	9.6	0	0	0
422	0:25:00	2.344	0.058	239.99	9.6	0	0	0
423	0:26:00	2.354	0.058	240.64	9.8	0	0	0
424	0:27:00	2.332	0.06	239.45	9.6	0	0	0
425	0:28:00	2.368	0.056	241.4	9.8	0	0	0
426	0:29:00	0.612	0	243.68	4	0	0	0
427	0:30:00	0.286	0	244.03	1.2	0	0	0
428	0:31:00	1.952	0.05	242.07	8.8	0	0	0
429	0:32:00	2.376	0.056	241.86	9.8	0	0	0
430	0:33:00	2.374	0.056	241.7	9.8	0	0	0
431	0:34:00	2.406	0	240	10	0	0	0
432	0:35:00	1.004	0.094	242	5.6	0	0	0
433	0:36:00	0.388	0.104	242.58	1.6	0	0	0
434	0:37:00	1.458	0.09	242.3	7.4	0	0	0
435	0:38:00	2.48	0.078	241.86	10.2	0	0	0
436	0:39:00	2.454	0.074	240.76	10.2	0	0	0
437	0:40:00	2.468	0.078	241.52	10.2	0	0	0
438	0:41:00	2.028	0.084	241.88	9	0	0	0
439	0:42:00	0.382	0.108	243.65	1.6	0	0	0
440	0:43:00	0.902	0.098	242.62	5.2	0	0	0
441	0:44:00	2.466	0.076	241.43	10.2	0	0	0
442	0:45:00	2.456	0.076	241.18	10.2	0	0	0
443	0:46:00	2.45	0.074	240.82	10	0	0	0
444	0:47:00	2.448	0.074	240.78	10	0	0	0
445	0:48:00	0.93	0	242.94	5.6	0	0	0
446	0:49:00	0.286	0	243.84	1.2	0	0	0
447	0:50:00	1.376	0	243.11	7.2	0	0	0
448	0:51:00	2.456	0.048	241.98	10	0	0	0
449	0:52:00	2.456	0.048	242.01	10	0	0	0
450	0:53:00	2.444	0.046	241.38	10	0	0	0
451	0:54:00	2.122	0.048	240.91	9.2	0	0	0
452	0:55:00	0.356	0.07	242.13	1.4	0	0	0
453	0:56:00	0.952	0.062	241.5	5.6	0	0	0
454	0:57:00	2.426	0	240.45	10	0	0	0
455	0:58:00	2.42	0	240.35	10	0	0	0
456	0:59:00	2.412	0	240.65	10	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
457	1:00:00	1.008	0	242.35	5.4	0	0	0
458	1:01:00	0.43	0	243.4	1.8	0	0	0
459	1:02:00	2.676	0.088	240.69	11.4	0	0	0
460	1:03:00	3.766	0.208	239.13	15.6	0	0	0
461	1:04:00	4.582	0.258	238.08	19.6	0	13	0
462	1:05:00	5.282	0.15	237.38	22.4	0	35	0
463	1:06:00	2.362	0.096	241.35	10.4	0	28	0
464	1:07:00	3.25	0.084	240.95	13.6	0	37	0
465	1:08:00	4.618	0.104	239.61	19.6	0	27	0
466	1:09:00	5.242	0.178	239.49	21.8	0	37	0
467	1:10:00	4.86	0.198	239.65	20.2	0	36	0
468	1:11:00	3.738	0.238	240.39	16	0	36	0
469	1:12:00	3.426	0.256	240.31	14.4	0	37	0
470	1:13:00	5.254	0.214	238.15	22	0	35	0
471	1:14:00	5.246	0.23	237.91	22	0	36	0
472	1:15:00	5.216	0.21	237.44	22	0	36	0
473	1:16:00	3.858	0.24	238.52	16.6	0	36	0
474	1:17:00	2.822	0.188	239.55	11.8	0	36	0
475	1:18:00	3.84	0.164	238.27	16.6	0	35	0
476	1:19:00	4.636	0.14	237.37	19.4	0	36	0
477	1:20:00	4.634	0.152	237.17	19.4	0	35	0
478	1:21:00	4.652	0.142	237.92	19.4	0	36	0
479	1:22:00	3.13	0.13	239.82	14.6	0	26	0
480	1:23:00	1.756	0.05	241.18	7.6	0	24	0
481	1:24:00	3.478	0	239.84	15	0	36	0
482	1:25:00	4.5	0	239.04	18.8	0	36	0
483	1:26:00	3.552	0	240.29	14.8	0	21	0
484	1:27:00	3.94	0	239.19	16.6	0	28	0
485	1:28:00	2.44	0	240.8	10	0	37	0
486	1:29:00	2.08	0	241.61	9	0	28	0
487	1:30:00	3.652	0	240.11	15.2	0	22	0
488	1:31:00	4.432	0	239.35	18.4	0	36	0
489	1:32:00	4.46	0	240.08	18.6	0	36	0
490	1:33:00	2.186	0.124	242.07	10	0	17	0
491	1:34:00	2.358	0.124	241.54	9.8	0	33	0
492	1:35:00	3.954	0.098	239.84	16.8	0	36	0
493	1:36:00	3.746	0.106	240.36	15.6	0	25	0
494	1:37:00	3.944	0.098	239.79	16.6	0	25	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
495	1:38:00	3.68	0.102	239.55	15.8	0	36	0
496	1:39:00	1.67	0.13	242.21	7.2	0	24	0
497	1:40:00	3.214	0.118	241.92	14.6	0	26	0
498	1:41:00	4.5	0	240.42	18.6	0	36	0
499	1:42:00	3.8	0	241.78	15.8	0	26	0
500	1:43:00	2.664	0	243.31	11.2	0	23	0
501	1:44:00	2.528	0.122	242.92	10.4	0	37	0
502	1:45:00	2.668	0.14	241.8	11.6	0	18	0
503	1:46:00	4.256	0.184	240.29	17.8	0	30	0
504	1:47:00	4.126	0.244	240.61	17.6	0	28	0
505	1:48:00	3.216	0.27	242.14	15	0	31	0
506	1:49:00	0.574	0.302	243.88	2.6	0	5	0
507	1:50:00	2.344	0.272	241.49	10.8	0	16	0
508	1:51:00	3.804	0.244	240.34	16.2	0	23	0
509	1:52:00	4.622	0.24	239.59	19.2	0	37	0
510	1:53:00	3.218	0.25	240.38	13.8	0	16	0
511	1:54:00	0.774	0.294	242.43	4.2	0	5	0
512	1:55:00	0.572	0.3	243.55	2.6	0	5	0
513	1:56:00	1.952	0.282	242.33	9	0	5	0
514	1:57:00	2.608	0.188	241.86	10.8	0	4	0
515	1:58:00	2.6	0.134	242.14	10.6	0	5	0
516	1:59:00	2.568	0.132	241.97	10.6	0	5	0
517	2:00:00	1.334	0.148	242.14	7	0	5	0
518	2:01:00	0.362	0.124	244.33	1.6	0	3	0
519	2:02:00	1.238	0.1	245.86	6.6	0	1	0
520	2:03:00	2.448	0.088	244.84	10	0	2	0
521	2:04:00	2.426	0.082	244.83	9.8	0	1	0
522	2:05:00	1.794	0.098	245.8	8.4	0	2	0
523	2:06:00	0.288	0.118	247.65	1.2	0	1	0
524	2:07:00	0.608	0.12	247.49	3.8	0	1	0
525	2:08:00	2.426	0.082	244.73	9.8	0	2	0
526	2:09:00	2.442	0.088	244.9	10	0	1	0
527	2:10:00	2.428	0.084	244.77	9.8	0	1	0
528	2:11:00	0.674	0.116	247.47	4.4	0	2	0
529	2:12:00	0.306	0.128	248.48	1.4	0	1	0
530	2:13:00	2.09	0.094	247.01	9	0	2	0
531	2:14:00	2.508	0.134	246.12	10.2	0	1	0
532	2:15:00	2.228	0.126	246.32	9.4	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
533	2:16:00	0.308	0.108	248.01	1.4	0	0	0
534	2:17:00	0.29	0.102	248.2	1.2	0	0	0
535	2:18:00	2.442	0.072	245.61	10	0	1	0
536	2:19:00	2.514	0.156	245.29	10.2	0	0	0
537	2:20:00	2.506	0.202	243.75	10.2	0	0	0
538	2:21:00	0.388	0.234	246.17	1.8	0	0	0
539	2:22:00	0.538	0.242	246.94	3.2	0	0	0
540	2:23:00	2.496	0.142	245.35	10.2	0	0	0
541	2:24:00	2.47	0.1	244.97	10	0	1	0
542	2:25:00	2.448	0.096	244.97	10	0	0	0
543	2:26:00	0.82	0.126	246.17	5	0	0	0
544	2:27:00	0.308	0.13	247.3	1.4	0	0	0
545	2:28:00	2.45	0.102	244.96	10	0	0	0
546	2:29:00	2.432	0.092	244.2	9.8	0	0	0
547	2:30:00	2.444	0.098	243.93	10	0	0	0
548	2:31:00	1.97	0.1	244.35	8.8	0	0	0
549	2:32:00	0.256	0	246.64	1.2	0	1	0
550	2:33:00	0.508	0	246.7	3.6	0	0	0
551	2:34:00	2.37	0	244.7	9.6	0	0	0
552	2:35:00	2.352	0	245.05	9.6	0	0	0
553	2:36:00	2.14	0	246.52	9	0	0	0
554	2:37:00	0.212	0	248.94	0.8	0	0	0
555	2:38:00	0.992	0	247.33	5.8	0	1	0
556	2:39:00	2.362	0	245.39	9.6	0	0	0
557	2:40:00	2.384	0	245.71	9.6	0	0	0
558	2:41:00	1.928	0	246.1	8.4	0	0	0
559	2:42:00	0.218	0	249.37	1	0	0	0
560	2:43:00	0.656	0	249.07	4.4	0	1	0
561	2:44:00	2.398	0	247.31	9.6	0	0	0
562	2:45:00	2.412	0	247.26	9.6	0	0	0
563	2:46:00	1.672	0	245.95	7.8	0	0	0
564	2:47:00	0.226	0	246.16	1	0	0	0
565	2:48:00	1.632	0	244.51	7.8	0	0	0
566	2:49:00	2.352	0	243.91	9.6	0	1	0
567	2:50:00	2.328	0.046	243.68	9.4	0	0	0
568	2:51:00	0.732	0	244.57	4.6	0	0	0
569	2:52:00	0.206	0	245.98	0.8	0	0	0
570	2:53:00	2.332	0	244.32	9.6	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
571	2:54:00	2.39	0	244.51	9.8	0	0	0
572	2:55:00	2.476	0.1	244.84	10	0	1	0
573	2:56:00	0.604	0.126	247.15	3.8	0	0	0
574	2:57:00	0.38	0.178	246.59	1.8	0	0	0
575	2:58:00	1.774	0.21	244.52	8.4	0	0	0
576	2:59:00	2.52	0.202	243.43	10.4	0	0	0
577	3:00:00	2.542	0.214	244.06	10.4	0	0	0
578	3:01:00	2.228	0.294	245.05	9.8	0	4	0
579	3:02:00	0.59	0.316	247.12	2.6	0	4	0
580	3:03:00	1.354	0.316	246.86	7	0	3	0
581	3:04:00	2.734	0.28	245.41	11.2	0	4	0
582	3:05:00	2.734	0.288	245.27	11.2	0	3	0
583	3:06:00	2.002	0.214	245.79	9	0	4	0
584	3:07:00	0.472	0.144	247.11	2	0	3	0
585	3:08:00	0.876	0	244.7	5	0	4	0
586	3:09:00	2.324	0.046	243.24	9.4	0	0	0
587	3:10:00	2.342	0	243.46	9.6	0	0	0
588	3:11:00	2.326	0.046	243.57	9.4	0	0	0
589	3:12:00	0.302	0	246.19	2	0	0	0
590	3:13:00	0.208	0	247.17	0.8	0	0	0
591	3:14:00	2.022	0	245.69	8.8	0	0	0
592	3:15:00	2.356	0	245.08	9.6	0	0	0
593	3:16:00	2.346	0	243.7	9.6	0	1	0
594	3:17:00	2.24	0	243.92	9.2	0	0	0
595	3:18:00	0.224	0	245.54	1	0	0	0
596	3:19:00	0.424	0	244.88	3.2	0	0	0
597	3:20:00	2.344	0	243.27	9.6	0	0	0
598	3:21:00	2.308	0.048	242.65	9.4	0	0	0
599	3:22:00	2.338	0	243.29	9.6	0	1	0
600	3:23:00	1.48	0	243.73	7.4	0	0	0
601	3:24:00	0.222	0	245.29	1	0	0	0
602	3:25:00	0.82	0	245.38	5.2	0	0	0
603	3:26:00	2.352	0	243.84	9.6	0	0	0
604	3:27:00	2.312	0.048	242.8	9.4	0	0	0
605	3:28:00	2.324	0	242.52	9.6	0	1	0
606	3:29:00	0.232	0	244.9	1.4	0	0	0
607	3:30:00	0.342	0.12	244.81	1.6	0	0	0
608	3:31:00	1.94	0.098	243.8	8.8	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
609	3:32:00	2.456	0.098	244.03	10	0	0	0
610	3:33:00	2.448	0.096	244.73	10	0	0	0
611	3:34:00	1.838	0.108	244.66	8.4	0	1	0
612	3:35:00	0.32	0.13	246.4	1.4	0	0	0
613	3:36:00	1.154	0.116	245.5	6.4	0	0	0
614	3:37:00	2.442	0.096	243.49	10	0	0	0
615	3:38:00	2.41	0.09	243.08	9.8	0	0	0
616	3:39:00	2.282	0.096	243.17	9.6	0	0	0
617	3:40:00	0.32	0.126	244.44	1.6	0	0	0
618	3:41:00	0.812	0.224	244.05	4.8	0	1	0
619	3:42:00	2.446	0.138	242.72	10	0	0	0
620	3:43:00	2.426	0.066	243.81	9.8	0	0	0
621	3:44:00	2.41	0.062	244.12	9.8	0	0	0
622	3:45:00	0.436	0.096	245.64	2.8	0	0	0
623	3:46:00	0.492	0.088	245.18	3.2	0	0	0
624	3:47:00	2.424	0.064	243.7	9.8	0	1	0
625	3:48:00	2.392	0.058	243.41	9.8	0	0	0
626	3:49:00	2.382	0	243.42	9.8	0	0	0
627	3:50:00	0.754	0	245.53	4.8	0	0	0
628	3:51:00	0.412	0	246.54	3	0	0	0
629	3:52:00	2.354	0	244.63	9.6	0	0	0
630	3:53:00	2.412	0	244.59	9.8	0	1	0
631	3:54:00	2.426	0.082	244.42	9.8	0	2	0
632	3:55:00	1.384	0.1	244.64	7.2	0	2	0
633	3:56:00	0.292	0.11	245.31	1.2	0	1	0
634	3:57:00	1.33	0.098	243.78	7	0	2	0
635	3:58:00	2.396	0.076	242.57	9.8	0	1	0
636	3:59:00	2.422	0.082	243.16	9.8	0	2	0
637	4:00:00	2.402	0.076	243.18	9.8	0	1	0
638	4:01:00	0.43	0.112	245.02	2.6	0	2	0
639	4:02:00	0.666	0.104	244.9	4.2	0	2	0
640	4:03:00	2.42	0.08	242.77	9.8	0	1	0
641	4:04:00	2.39	0.074	242.47	9.8	0	2	0
642	4:05:00	2.446	0.12	242.14	10	0	1	0
643	4:06:00	0.978	0.248	245.15	5.6	0	2	0
644	4:07:00	0.4	0.254	245.86	1.8	0	1	0
645	4:08:00	2.432	0.222	243.47	10.2	0	2	0
646	4:09:00	2.5	0.214	243.36	10.2	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
647	4:10:00	2.52	0.22	243.54	10.4	0	2	0
648	4:11:00	0.788	0.246	245.68	4.8	0	1	0
649	4:12:00	0.402	0.256	245.69	2	0	2	0
650	4:13:00	2.238	0.216	243.21	9.6	0	1	0
651	4:14:00	2.512	0.22	243.49	10.2	0	2	0
652	4:15:00	2.486	0.212	243.2	10.2	0	1	0
653	4:16:00	1.936	0.23	244.12	8.8	0	1	0
654	4:17:00	0.376	0.256	246.45	1.8	0	2	0
655	4:18:00	0.908	0.078	245.71	5.2	0	1	0
656	4:19:00	2.336	0.046	243.86	9.4	0	0	0
657	4:20:00	2.346	0	243.5	9.6	0	0	0
658	4:21:00	2.328	0.046	243.62	9.4	0	0	0
659	4:22:00	1.708	0	243.73	8	0	0	0
660	4:23:00	0.206	0	245.17	0.8	0	0	0
661	4:24:00	0.516	0	245.13	3.6	0	1	0
662	4:25:00	2.426	0.06	243.67	9.8	0	0	0
663	4:26:00	2.43	0.066	244	9.8	0	0	0
664	4:27:00	2.424	0.06	243.6	9.8	0	0	0
665	4:28:00	2.306	0.064	242.93	9.6	0	0	0
666	4:29:00	0.288	0.088	245.08	1.2	0	0	0
667	4:30:00	0.756	0.092	245.69	3.8	0	0	5
668	4:31:00	3.498	0.05	242.83	14.4	0	0	19
669	4:32:00	3.522	0.054	242.92	14.4	0	1	18
670	4:33:00	3.46	0	243.03	14.2	0	0	19
671	4:34:00	3.434	0.05	242.95	14	0	0	18
672	4:35:00	1.646	0	245.6	7.4	0	0	19
673	4:36:00	1.336	0	245.94	5.4	0	0	18
674	4:37:00	2.874	0	244.16	12.4	0	1	18
675	4:38:00	3.41	0.056	243.04	14	0	0	19
676	4:39:00	3.412	0.052	242.49	14	0	0	18
677	4:40:00	3.386	0.056	242.22	13.8	0	0	18
678	4:41:00	1.844	0.048	244.07	8.2	0	0	18
679	4:42:00	1.414	0.106	244.55	5.8	0	0	18
680	4:43:00	3.352	0.086	242.89	14	0	1	18
681	4:44:00	3.5	0.08	242.65	14.4	0	0	18
682	4:45:00	3.516	0.084	242.63	14.4	0	0	18
683	4:46:00	3.174	0.084	243.15	13.4	0	0	18
684	4:47:00	1.428	0.114	245.1	5.8	0	0	19

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
685	4:48:00	1.994	0.1	244.15	9	0	0	18
686	4:49:00	3.492	0.082	241.83	14.4	0	1	18
687	4:50:00	3.46	0.076	241.53	14.2	0	0	18
688	4:51:00	3.492	0.082	242.06	14.4	0	0	18
689	4:52:00	3.482	0.08	242.39	14.2	0	0	18
690	4:53:00	1.492	0.104	245.95	6.2	0	0	18
691	4:54:00	1.326	0	246.55	5.4	0	0	19
692	4:55:00	3.282	0.046	243.76	13.6	0	1	18
693	4:56:00	3.422	0.054	243.58	14	0	0	18
694	4:57:00	3.424	0.05	242.95	14	0	0	18
695	4:58:00	3.254	0.054	242.7	13.4	0	0	18
696	4:59:00	1.32	0	244.27	5.4	0	0	18
697	5:00:00	2.294	0	243.14	10.4	0	0	19
698	5:01:00	3.4	0.052	242.01	14	0	0	17
699	5:02:00	3.402	0.056	242.73	14	0	0	18
700	5:03:00	3.418	0.05	242.7	14	0	1	18
701	5:04:00	2.994	0.05	243.77	12.6	0	0	19
702	5:05:00	1.326	0	244.66	5.4	0	0	18
703	5:06:00	2.02	0	243.62	9.2	0	0	18
704	5:07:00	3.378	0.056	241.41	14	0	0	18
705	5:08:00	3.372	0.054	240.91	14	0	1	18
706	5:09:00	3.374	0.046	240.82	14	0	0	17
707	5:10:00	3.426	0.046	240.23	14.2	0	0	18
708	5:11:00	1.462	0.066	242.12	6.2	0	0	18
709	5:12:00	1.834	0.07	242.93	8.4	0	0	18
710	5:13:00	3.462	0.046	242.13	14.2	0	0	18
711	5:14:00	3.486	0.054	242.49	14.2	0	1	18
712	5:15:00	2.91	0.056	243.69	12	0	0	9
713	5:16:00	0.936	0.09	245.93	5.4	0	0	0
714	5:17:00	0.338	0.152	246.45	1.6	0	0	0
715	5:18:00	1.926	0.136	244.33	8.8	0	0	0
716	5:19:00	2.42	0.088	242.87	9.8	0	0	0
717	5:20:00	2.438	0.094	243.06	10	0	1	0
718	5:21:00	2.43	0.092	243.67	9.8	0	0	0
719	5:22:00	2.454	0.098	244.05	10	0	0	0
720	5:23:00	0.424	0.126	246.26	2.6	0	0	0
721	5:24:00	0.716	0.128	246.23	4.4	0	0	0
722	5:25:00	2.462	0.098	245.16	10	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
723	5:26:00	2.46	0.1	244.25	10	0	1	0
724	5:27:00	2.418	0.09	243.19	9.8	0	0	0
725	5:28:00	1	0.112	243.77	5.8	0	0	0
726	5:29:00	0.298	0.118	244.73	1.2	0	0	0
727	5:30:00	1.65	0	243.03	7.8	0	0	0
728	5:31:00	2.31	0.048	242.67	9.4	0	0	0
729	5:32:00	2.332	0	242.87	9.6	0	1	0
730	5:33:00	2.242	0.046	243.03	9.2	0	0	0
731	5:34:00	0.224	0	244.96	1	0	0	0
732	5:35:00	0.752	0	244.5	4.8	0	0	0
733	5:36:00	2.33	0	242.56	9.6	0	0	0
734	5:37:00	2.322	0	242.61	9.4	0	0	0
735	5:38:00	2.312	0.048	242.19	9.4	0	0	0
736	5:39:00	0.76	0	243.74	4.8	0	1	0
737	5:40:00	0.364	0	244.4	2.6	0	0	0
738	5:41:00	2.336	0	242.39	9.6	0	0	0
739	5:42:00	2.312	0.048	242.51	9.4	0	0	0
740	5:43:00	2.332	0	242.61	9.6	0	0	0
741	5:44:00	0.856	0	243.82	5.2	0	0	0
742	5:45:00	0.864	0	243.55	5.4	0	1	0
743	5:46:00	2.302	0.05	242.22	9.4	0	0	0
744	5:47:00	2.324	0	242.6	9.6	0	0	0
745	5:48:00	1.852	0	243.74	8.4	0	0	0
746	5:49:00	0.226	0	247.08	1	0	0	0
747	5:50:00	2.184	0	244.99	9.2	0	0	0
748	5:51:00	2.38	0	245.62	9.6	0	1	0
749	5:52:00	1.92	0	245.71	8.6	0	0	0
750	5:53:00	0.254	0	246.97	1.2	0	0	0
751	5:54:00	2.164	0.098	244.63	9.2	0	0	0
752	5:55:00	2.554	0.188	244.72	10.4	0	0	0
753	5:56:00	2.026	0.212	245.14	9	0	0	0
754	5:57:00	0.414	0.244	246.58	2	0	1	0
755	5:58:00	2.106	0.206	244.28	9.2	0	0	0
756	5:59:00	2.522	0.202	243.58	10.4	0	0	0
757	6:00:00	2.076	0.206	244.36	9.2	0	0	0
758	6:01:00	0.402	0.238	245.77	1.8	0	0	0
759	6:02:00	2.118	0.204	243.95	9.2	0	0	0
760	6:03:00	2.486	0.176	243.01	10.2	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
761	6:04:00	1.34	0.2	245.34	7	0	1	0
762	6:05:00	0.666	0.258	246	4	0	1	0
763	6:06:00	2.44	0.11	243.7	10	0	2	0
764	6:07:00	2.426	0.082	243.53	9.8	0	2	0
765	6:08:00	1.278	0.096	243.92	6.8	0	1	0
766	6:09:00	0.43	0.106	244.99	2.8	0	2	0
767	6:10:00	2.426	0.08	243.06	10	0	1	0
768	6:11:00	2.382	0.072	241.95	9.8	0	2	0
769	6:12:00	2.406	0.078	242.35	9.8	0	2	0
770	6:13:00	0.33	0.106	244.82	1.8	0	1	0
771	6:14:00	1.208	0.098	243.99	6.6	0	2	0
772	6:15:00	2.406	0.076	242.91	9.8	0	1	0
773	6:16:00	2.442	0.086	242.84	10	0	2	0
774	6:17:00	2.426	0.082	243.09	10	0	1	0
775	6:18:00	2.432	0.084	242.41	10	0	2	0
776	6:19:00	2.414	0.08	242.63	9.8	0	1	0
777	6:20:00	0.484	0.116	244.86	2.4	0	2	0
778	6:21:00	0.312	0.112	245.05	1.4	0	1	0
779	6:22:00	2.352	0.088	243.36	9.8	0	2	0
780	6:23:00	2.428	0.084	243.66	9.8	0	1	0
781	6:24:00	2.582	0.092	244.02	10.6	0	2	0
782	6:25:00	2.784	0.086	243.85	11.4	0	1	0
783	6:26:00	2.68	0.09	243.73	11	0	1	0
784	6:27:00	1.42	0.098	244.93	7	0	2	0
785	6:28:00	0.908	0.088	244.83	3.8	0	1	0
786	6:29:00	3.194	0.048	242.05	13.2	0	0	0
787	6:30:00	3.328	0.094	241.89	13.6	0	0	0
788	6:31:00	2.67	0.094	242.62	11.6	0	0	0
789	6:32:00	1.238	0.124	244.76	5	0	1	0
790	6:33:00	1.12	0.116	244.4	4.6	0	0	0
791	6:34:00	0.592	0.128	245.39	2.6	0	0	0
792	6:35:00	0.8	0.122	245.94	3.2	0	0	0
793	6:36:00	0.82	0.126	245.84	3.4	0	0	0
794	6:37:00	0.796	0.116	244.5	3.2	0	0	0
795	6:38:00	0.798	0.116	244.02	3.2	0	1	0
796	6:39:00	0.694	0.12	244.13	2.8	0	0	0
797	6:40:00	0.694	0.136	244.35	3	0	0	0
798	6:41:00	0.758	0.228	244.3	3.2	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
799	6:42:00	0.682	0.14	244.14	2.8	0	0	0
800	6:43:00	0.664	0.09	244.49	2.6	0	1	0
801	6:44:00	0.642	0.084	244.14	2.6	0	0	0
802	6:45:00	0.66	0.088	243.94	2.6	0	0	0
803	6:46:00	0.636	0.082	243.58	2.6	0	0	0
804	6:47:00	0.66	0.09	244.64	2.6	0	0	0
805	6:48:00	0.638	0.084	244.26	2.6	0	0	0
806	6:49:00	0.478	0.092	244.46	2	0	1	0
807	6:50:00	0.316	0	245.54	1.2	0	0	0
808	6:51:00	0.33	0	246.01	1.4	0	0	0
809	6:52:00	0.38	0	245.94	1.6	0	0	0
810	6:53:00	0.522	0	245.22	2.2	0	0	0
811	6:54:00	0.422	0	244.45	1.8	0	0	0
812	6:55:00	0.262	0	243.96	1.2	0	1	0
813	6:56:00	0.22	0	243.39	1	0	0	0
814	6:57:00	0.246	0	244.35	1	0	0	0
815	6:58:00	0.212	0	244.26	0.8	0	0	0
816	6:59:00	0.242	0	244.62	1	0	0	0
817	7:00:00	0.222	0	244.67	1	0	0	0
818	7:01:00	0.24	0	244.23	1	0	1	0
819	7:02:00	0.216	0	244.87	1	0	0	0
820	7:03:00	0.228	0	243.64	1	0	0	0
821	7:04:00	0.21	0	242.49	0.8	0	0	0
822	7:05:00	0.276	0	242.25	1.4	0	0	0
823	7:06:00	0.322	0.104	242.08	1.4	0	0	0
824	7:07:00	0.336	0.108	241.89	1.4	0	0	0
825	7:08:00	0.318	0.108	242.08	1.4	0	0	0
826	7:09:00	0.314	0.11	242.57	1.4	0	1	0
827	7:10:00	0.328	0.114	243.04	1.4	0	0	0
828	7:11:00	0.308	0.108	242.59	1.4	0	0	0
829	7:12:00	0.326	0.112	242.55	1.4	0	0	0
830	7:13:00	0.304	0.108	242.8	1.4	0	0	0
831	7:14:00	2.206	0.086	240.97	9.4	0	1	0
832	7:15:00	2.338	0.072	239.16	9.6	0	0	0
833	7:16:00	2.362	0.076	239.21	9.8	0	0	0
834	7:17:00	2.356	0.074	239.79	9.8	0	0	0
835	7:18:00	2.324	0	239.78	9.6	0	0	0
836	7:19:00	2.264	0.056	239.92	9.4	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
837	7:20:00	2.28	0.052	240.03	9.4	0	1	0
838	7:21:00	2.258	0.056	239.9	9.4	0	0	0
839	7:22:00	2.306	0.048	241.23	9.4	0	0	0
840	7:23:00	2.288	0.054	241.35	9.4	0	0	0
841	7:24:00	2.3	0.048	241.01	9.4	0	0	0
842	7:25:00	2.346	0	241.57	9.6	0	0	0
843	7:26:00	2.378	0.054	241.27	9.8	0	1	0
844	7:27:00	2.346	0.048	240.92	9.6	0	0	0
845	7:28:00	2.35	0.05	240.04	9.8	0	0	0
846	7:29:00	2.326	0	239.39	9.6	0	0	0
847	7:30:00	2.336	0.048	238.93	9.6	0	0	0
848	7:31:00	2.326	0	239.46	9.6	0	0	0
849	7:32:00	0.504	0.08	242.27	3.2	0	1	0
850	7:33:00	0.268	0.076	242.22	1.2	0	0	0
851	7:34:00	1.734	0	242.55	8	0	0	0
852	7:35:00	2.318	0.05	242.88	9.4	0	0	0
853	7:36:00	2.322	0.046	242.18	9.6	0	0	0
854	7:37:00	2.302	0.052	242.16	9.4	0	0	0
855	7:38:00	2.318	0.046	241.97	9.4	0	1	0
856	7:39:00	2.302	0.05	241.71	9.4	0	0	0
857	7:40:00	2.29	0.052	241.53	9.4	0	0	0
858	7:41:00	2.376	0	241.3	9.8	0	0	0
859	7:42:00	0.368	0.114	244.31	2	0	0	0
860	7:43:00	0.332	0.124	244.83	1.4	0	0	0
861	7:44:00	1.734	0.096	243.37	8.2	0	0	0
862	7:45:00	2.416	0.088	242.04	10	0	1	0
863	7:46:00	2.4	0.084	242.24	9.8	0	0	0
864	7:47:00	2.418	0.088	242.1	10	0	0	0
865	7:48:00	2.388	0.082	241.56	9.8	0	0	0
866	7:49:00	2.406	0.086	241.57	9.8	0	0	0
867	7:50:00	2.378	0.08	241.33	9.8	0	0	0
868	7:51:00	1.164	0.108	243.28	6.4	0	1	0
869	7:52:00	0.3	0.118	244.95	1.2	0	0	0
870	7:53:00	0.7	0.12	244.83	4.4	0	0	0
871	7:54:00	2.376	0	242.85	9.8	0	0	0
872	7:55:00	2.32	0.046	242.06	9.6	0	0	0
873	7:56:00	2.278	0.054	241.04	9.4	0	0	0
874	7:57:00	2.28	0.05	240.31	9.4	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
875	7:58:00	2.278	0.054	240.95	9.4	0	0	0
876	7:59:00	2.294	0.05	240.67	9.4	0	0	0
877	8:00:00	2.28	0.056	240.9	9.4	0	0	0
878	8:01:00	2.3	0.05	240.97	9.4	0	0	0
879	8:02:00	0.21	0	243.21	1.2	0	0	0
880	8:03:00	0.216	0	243.6	1	0	1	0
881	8:04:00	2.256	0.052	241.99	9.4	0	0	0
882	8:05:00	2.312	0.048	241.62	9.4	0	0	0
883	8:06:00	2.288	0.052	241.37	9.4	0	0	0
884	8:07:00	2.308	0.048	241.44	9.4	0	0	0
885	8:08:00	2.272	0.054	240.62	9.4	0	0	0
886	8:09:00	2.354	0	241.27	9.6	0	1	0
887	8:10:00	0.616	0.084	243.88	4	0	0	0
888	8:11:00	0.282	0.082	243.68	1.2	0	0	0
889	8:12:00	1.78	0.06	241.11	8.4	0	0	0
890	8:13:00	2.348	0.048	240.67	9.6	0	0	0
891	8:14:00	2.368	0.054	241.1	9.8	0	1	0
892	8:15:00	2.362	0.052	241.84	9.6	0	0	0
893	8:16:00	2.378	0.056	241.48	9.8	0	0	0
894	8:17:00	2.43	0.134	240.97	10	0	0	0
895	8:18:00	2.512	0.256	239.37	10.4	0	2	0
896	8:19:00	0.616	0.226	241.48	3.8	0	1	0
897	8:20:00	0.398	0.234	241.86	1.8	0	2	0
898	8:21:00	1.528	0.212	241.11	7.6	0	1	0
899	8:22:00	2.484	0.208	241.06	10.2	0	2	0
900	8:23:00	2.462	0.202	241.06	10.2	0	1	0
901	8:24:00	2.502	0.214	242.36	10.2	0	2	0
902	8:25:00	2.484	0.21	242.66	10.2	0	1	0
903	8:26:00	2.486	0.212	242.06	10.2	0	2	0
904	8:27:00	2.04	0.214	242.4	9	0	2	0
905	8:28:00	0.402	0.246	244.02	2	0	1	0
906	8:29:00	0.38	0.24	243.78	1.8	0	2	0
907	8:30:00	1.876	0.196	241.39	8.6	0	1	0
908	8:31:00	2.36	0.068	241.03	9.8	0	2	0
909	8:32:00	2.364	0.07	240.69	9.8	0	1	0
910	8:33:00	2.336	0.064	240.11	9.6	0	2	0
911	8:34:00	2.352	0.068	239.68	9.8	0	1	0
912	8:35:00	2.34	0.064	240.17	9.6	0	2	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
913	8:36:00	2.36	0.07	240.34	9.8	0	1	0
914	8:37:00	0.914	0.088	242.65	5.4	0	1	0
915	8:38:00	0.29	0.104	243.51	1.2	0	2	0
916	8:39:00	1.058	0.09	243.08	6	0	1	0
917	8:40:00	2.374	0.07	241.42	9.8	0	2	0
918	8:41:00	2.388	0.076	241.94	9.8	0	1	0
919	8:42:00	2.358	0	242.68	9.6	0	1	0
920	8:43:00	2.294	0.05	241.02	9.4	0	1	0
921	8:44:00	2.278	0.054	241.32	9.4	0	0	0
922	8:45:00	2.28	0.05	240.08	9.4	0	0	0
923	8:46:00	0.268	0	241.7	1.8	0	0	0
924	8:47:00	0.222	0	242.47	1	0	0	0
925	8:48:00	1.622	0.046	241.27	7.8	0	0	0
926	8:49:00	2.296	0.048	241.03	9.4	0	1	0
927	8:50:00	2.278	0.054	241.14	9.4	0	0	0
928	8:51:00	2.296	0.05	240.7	9.4	0	0	0
929	8:52:00	2.26	0.056	239.73	9.4	0	0	0
930	8:53:00	2.94	0.218	238.57	12.4	0	0	0
931	8:54:00	2.792	0.17	238.51	11.6	0	0	0
932	8:55:00	1.158	0.248	239.96	6	0	1	0
933	8:56:00	0.932	0.398	240.25	4.2	0	0	0
934	8:57:00	2.514	0.368	239.1	11.2	0	0	0
935	8:58:00	2.984	0.334	239.27	12.4	0	1	0
936	8:59:00	2.996	0.338	238.94	12.6	0	1	0
937	9:00:00	2.94	0.31	239.09	12.2	0	1	0
938	9:01:00	3.278	0.158	239.63	14.2	0	7	0
939	9:02:00	5.908	0.134	237.9	25.4	0	38	0
940	9:03:00	7.064	0.124	235.57	30	0	37	0
941	9:04:00	6.926	0.118	235.35	29.4	0	37	0
942	9:05:00	6.58	0.056	235.15	28.2	0	38	0
943	9:06:00	6.05	0	235.22	26.2	0	37	0
944	9:07:00	6.104	0.05	235.32	25.8	0	37	0
945	9:08:00	4.762	0.088	237.44	20	0	38	0
946	9:09:00	4.506	0.088	237.25	19	0	38	0
947	9:10:00	4.472	0.088	236.34	18.8	0	37	0
948	9:11:00	3.708	0.084	236.82	16.2	0	27	0
949	9:12:00	0.724	0.054	240.88	4.6	0	2	0
950	9:13:00	1.892	0.066	239.37	9	0	26	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
951	9:14:00	2.012	0	239.17	9	0	2	0
952	9:15:00	2.372	0	238.36	9.8	0	1	0
953	9:16:00	2.386	0	238.96	10	0	0	0
954	9:17:00	2.4	0.064	238.59	10	0	1	0
955	9:18:00	2.424	0.068	238.48	10	0	2	0
956	9:19:00	1.066	0.05	240	6	0	1	0
957	9:20:00	0.38	0	240.77	1.6	0	2	0
958	9:21:00	1.632	0	239.72	7.8	0	1	0
959	9:22:00	2.41	0	239.47	10	0	1	0
960	9:23:00	2.38	0.062	239.45	9.8	0	0	0
961	9:24:00	2.402	0.06	239.23	10	0	1	0
962	9:25:00	2.438	0.066	239.37	10.2	0	1	0
963	9:26:00	2.432	0.066	239.18	10	0	1	0
964	9:27:00	1.64	0.054	239.87	8	0	2	0
965	9:28:00	0.424	0	240.71	1.8	0	2	0
966	9:29:00	1.41	0.124	239.52	7.2	0	5	0
967	9:30:00	2.722	0.136	237.51	11.4	0	5	0
968	9:31:00	2.712	0.136	237.44	11.4	0	5	0
969	9:32:00	2.706	0.134	237.39	11.4	0	5	0
970	9:33:00	2.488	0.112	237.7	10.4	0	1	0
971	9:34:00	2.424	0.072	238.73	10	0	0	0
972	9:35:00	1.258	0.184	239.79	6.8	0	0	0
973	9:36:00	0.37	0.206	240.85	1.8	0	0	0
974	9:37:00	0.786	0.202	240.73	4.8	0	0	0
975	9:38:00	2.474	0.176	238.59	10.4	0	0	0
976	9:39:00	2.474	0.176	238.58	10.4	0	0	0
977	9:40:00	2.488	0.178	239.21	10.4	0	0	0
978	9:41:00	2.486	0.178	239.29	10.4	0	0	0
979	9:42:00	2.444	0.13	238.64	10.2	0	0	0
980	9:43:00	2.272	0.048	239.04	9.6	0	0	0
981	9:44:00	0.338	0.076	241.21	1.4	0	0	0
982	9:45:00	0.29	0	241.1	1.4	0	0	0
983	9:46:00	1.466	0	240.92	7.4	0	0	0
984	9:47:00	2.324	0.05	239.84	9.6	0	0	0
985	9:48:00	2.32	0.052	239.14	9.6	0	0	0
986	9:49:00	2.308	0.052	238.59	9.6	0	0	0
987	9:50:00	2.314	0.054	238.76	9.6	0	0	0
988	9:51:00	2.312	0.052	239.03	9.6	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
989	9:52:00	2.306	0.052	239.26	9.6	0	0	0
990	9:53:00	0.444	0	241.82	3	0	0	0
991	9:54:00	0.268	0	242.48	1.2	0	0	0
992	9:55:00	1.846	0.046	240.12	8.4	0	0	0
993	9:56:00	2.308	0.054	238.67	9.6	0	0	0
994	9:57:00	2.29	0.056	238.04	9.6	0	0	0
995	9:58:00	2.288	0.056	238.09	9.6	0	0	0
996	9:59:00	2.296	0.054	238.13	9.6	0	0	0
997	10:00:00	2.292	0.054	238.03	9.6	0	0	0
998	10:01:00	0.37	0	240.26	2.4	0	0	0
999	10:02:00	0.472	0	240.15	2.4	0	0	0
1000	10:03:00	3.054	0.06	237.55	13.4	0	0	18
1001	10:04:00	3.48	0.066	235.97	14.6	0	0	18
1002	10:05:00	3.572	0.046	235.65	15	0	0	17
1003	10:06:00	3.56	0.058	235.44	15	0	0	18
1004	10:07:00	3.528	0.056	234.71	15	0	0	17
1005	10:08:00	3.49	0.05	233.52	14.8	0	0	16
1006	10:09:00	2.038	0.068	235.76	9.4	0	0	17
1007	10:10:00	1.406	0.078	237.13	5.8	0	0	18
1008	10:11:00	2.84	0.064	236.1	12.6	0	0	17
1009	10:12:00	3.388	0.06	235.99	14.2	0	0	17
1010	10:13:00	3.394	0.062	236.29	14.2	0	0	17
1011	10:14:00	3.36	0.06	235.94	14.2	0	0	17
1012	10:15:00	1.354	0.084	238.25	5.6	0	0	18
1013	10:16:00	1.334	0.082	237.88	5.6	0	0	17
1014	10:17:00	1.358	0.09	238.01	5.6	0	0	17
1015	10:18:00	1.37	0.118	237.93	5.8	0	0	18
1016	10:19:00	1.322	0.054	237.72	5.4	0	0	17
1017	10:20:00	1.304	0.05	236.92	5.4	0	0	17
1018	10:21:00	1.394	0.07	238.37	5.8	0	0	17
1019	10:22:00	1.702	0.082	238.37	7	0	0	18
1020	10:23:00	2.242	0.162	237.33	10	1	7	17
1021	10:24:00	3.714	0.296	235.15	15.8	2	35	17
1022	10:25:00	3.212	0.304	235.99	14.2	1	26	17
1023	10:26:00	3.694	0.28	235.16	15.6	1	35	17
1024	10:27:00	3.204	0.292	236.08	14	1	27	17
1025	10:28:00	3.676	0.268	234.85	15.6	1	35	17
1026	10:29:00	3.666	0.282	234.34	15.6	2	35	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1027	10:30:00	3.678	0.204	236.01	15.6	1	35	17
1028	10:31:00	3.722	0.3	236.22	15.8	1	37	17
1029	10:32:00	3.716	0.28	236.39	15.6	1	36	17
1030	10:33:00	3.75	0.298	236.67	15.8	1	37	17
1031	10:34:00	4.17	0.268	235.42	18	6	36	17
1032	10:35:00	5.776	0.266	232.89	24.8	37	36	17
1033	10:36:00	5.718	0.244	232.07	24.6	37	35	16
1034	10:37:00	5.738	0.26	232.13	24.6	36	35	17
1035	10:38:00	5.714	0.242	231.99	24.6	37	36	16
1036	10:39:00	5.732	0.268	231.88	24.6	36	35	17
1037	10:40:00	5.73	0.272	231.61	24.6	36	35	16
1038	10:41:00	5.848	0.396	232.11	25.2	37	36	17
1039	10:42:00	5.842	0.38	232.47	25	36	35	16
1040	10:43:00	5.88	0.4	233.05	25.2	37	36	17
1041	10:44:00	5.872	0.384	233.26	25.2	36	35	17
1042	10:45:00	5.07	0.416	234.44	21.8	37	23	17
1043	10:46:00	5.488	0.396	234.81	23.4	38	27	16
1044	10:47:00	5.898	0.404	233.85	25.2	36	36	17
1045	10:48:00	5.026	0.382	232.73	22	25	35	17
1046	10:49:00	3.246	0.4	234.31	14.2	1	29	17
1047	10:50:00	2.712	0.256	234.81	11.8	2	21	16
1048	10:51:00	3.538	0.26	233.91	15	1	36	17
1049	10:52:00	3.574	0.254	235.74	15.2	1	36	17
1050	10:53:00	3.016	0.286	237.04	12.8	1	25	17
1051	10:54:00	3.002	0.224	237.17	12.8	1	26	18
1052	10:55:00	4.444	0.136	235.97	19.2	2	50	17
1053	10:56:00	5.568	0.106	234.01	23.8	1	71	17
1054	10:57:00	4.84	0.132	235.21	20.6	1	59	16
1055	10:58:00	5.066	0.112	234.54	21.6	1	62	17
1056	10:59:00	5.57	0.154	232.91	23.8	1	70	17
1057	11:00:00	3.65	0.22	234.55	15.6	1	40	17
1058	11:01:00	2.394	0.248	235.94	10.2	2	17	17
1059	11:02:00	3.024	0.222	234.81	13.2	1	29	17
1060	11:03:00	3.25	0.232	234.6	14.2	1	29	17
1061	11:04:00	3.378	0.16	235.39	14.4	1	34	17
1062	11:05:00	2.264	0.144	237.06	9.6	2	12	17
1063	11:06:00	3.108	0.112	235.01	13.4	1	28	17
1064	11:07:00	2.978	0.11	233.95	13.2	1	26	16

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1065	11:08:00	1.966	0.118	234.51	8.6	1	12	17
1066	11:09:00	1.928	0.134	235.57	8.4	1	8	17
1067	11:10:00	2.526	0.082	234.36	11	1	20	17
1068	11:11:00	1.51	0	235.49	6.4	1	3	17
1069	11:12:00	1.572	0.064	236.83	6.6	1	4	17
1070	11:13:00	1.602	0.076	237.21	6.8	2	4	18
1071	11:14:00	1.562	0.062	236.76	6.6	1	4	17
1072	11:15:00	1.55	0	237.83	6.4	1	3	17
1073	11:16:00	1.586	0.05	237.91	6.6	1	4	17
1074	11:17:00	1.658	0.168	238.35	7	1	3	18
1075	11:18:00	1.658	0.164	236.8	7	2	3	17
1076	11:19:00	1.65	0.314	234.89	7	0	1	17
1077	11:20:00	1.676	0.312	235.59	7.2	1	0	17
1078	11:21:00	2.492	0.31	234.99	11.4	12	1	17
1079	11:22:00	3.828	0.288	234.29	16.4	37	1	17
1080	11:23:00	3.822	0.262	234.72	16.2	37	0	16
1081	11:24:00	3.834	0.254	235.27	16.2	37	1	17
1082	11:25:00	3.81	0.248	235.19	16.2	37	0	17
1083	11:26:00	3.824	0.244	234.83	16.2	37	0	17
1084	11:27:00	3.838	0.226	235.06	16.2	37	0	17
1085	11:28:00	3.844	0.23	234.72	16.4	37	1	17
1086	11:29:00	3.824	0.25	234.49	16.2	37	0	17
1087	11:30:00	3.844	0.208	234.82	16.4	37	1	17
1088	11:31:00	3.88	0.146	234.73	16.4	37	2	17
1089	11:32:00	4.004	0.162	236.29	16.8	37	5	17
1090	11:33:00	3.784	0.124	235.97	16	38	0	17
1091	11:34:00	3.784	0.104	236.2	16	37	1	17
1092	11:35:00	3.792	0.104	237.09	16	37	0	17
1093	11:36:00	2.146	0.192	236.81	9.8	11	0	17
1094	11:37:00	1.608	0.208	237.06	6.8	0	0	17
1095	11:38:00	1.828	0.212	237.83	7.6	0	0	18
1096	11:39:00	1.922	0.212	237.67	8	0	0	17
1097	11:40:00	1.978	0.252	237.94	8.4	0	0	17
1098	11:41:00	1.93	0.218	238.08	8	1	0	18
1099	11:42:00	1.964	0.222	239.49	8.2	0	1	17
1100	11:43:00	1.854	0.224	240.69	7.6	0	0	18
1101	11:44:00	1.762	0.228	240.31	7.4	0	0	18
1102	11:45:00	1.738	0.218	239.63	7.2	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1103	11:46:00	1.766	0.228	240.77	7.4	0	0	18
1104	11:47:00	1.746	0.234	240.59	7.2	0	0	18
1105	11:48:00	1.734	0.236	239.63	7.2	0	1	17
1106	11:49:00	1.738	0.252	239.29	7.2	0	0	18
1107	11:50:00	1.958	0.248	238.73	8.2	0	0	17
1108	11:51:00	1.964	0.222	239.3	8.2	0	0	18
1109	11:52:00	1.962	0.232	239.43	8.2	0	0	17
1110	11:53:00	2.05	0.348	238.99	8.6	0	1	18
1111	11:54:00	2.032	0.342	239.1	8.6	0	0	17
1112	11:55:00	2.036	0.34	238.21	8.6	0	0	18
1113	11:56:00	1.964	0.27	238.1	8.2	0	0	17
1114	11:57:00	1.97	0.252	238.53	8.2	0	0	18
1115	11:58:00	1.946	0.246	238.36	8.2	0	0	17
1116	11:59:00	1.97	0.254	238.87	8.2	0	1	17
1117	12:00:00	1.962	0.252	239.73	8.2	0	0	18
1118	12:01:00	1.988	0.26	240.32	8.2	0	0	18
1119	12:02:00	1.972	0.258	240.63	8.2	0	0	17
1120	12:03:00	1.974	0.256	239.28	8.2	0	0	18
1121	12:04:00	1.954	0.25	239	8.2	0	0	17
1122	12:05:00	1.958	0.25	238.1	8.2	0	0	18
1123	12:06:00	2.01	0.35	236.29	8.6	0	0	17
1124	12:07:00	1.946	0.304	237.11	8.2	0	1	17
1125	12:08:00	1.928	0.294	237.56	8.2	0	0	17
1126	12:09:00	1.908	0.208	238.25	8	0	0	18
1127	12:10:00	1.708	0.118	238.16	7.2	0	0	17
1128	12:11:00	1.564	0.132	239.22	6.4	0	0	18
1129	12:12:00	1.54	0.126	238.96	6.4	0	0	17
1130	12:13:00	1.56	0.13	238.77	6.4	0	1	18
1131	12:14:00	1.584	0.124	238.7	6.6	0	0	17
1132	12:15:00	1.734	0.122	237.94	7.2	0	0	17
1133	12:16:00	1.772	0.11	238.63	7.4	0	0	18
1134	12:17:00	1.874	0.106	238.61	7.8	0	0	17
1135	12:18:00	1.74	0.11	238.48	7.2	0	0	18
1136	12:19:00	1.622	0.118	237.83	6.8	0	0	17
1137	12:20:00	1.854	0.114	238.4	7.8	0	0	17
1138	12:21:00	1.854	0.114	238.5	7.8	0	0	18
1139	12:22:00	1.906	0.148	239.11	8	0	0	17
1140	12:23:00	1.946	0.222	239.38	8	0	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1141	12:24:00	3.36	0.528	237.53	14.6	0	0	17
1142	12:25:00	3.518	0.504	237.66	15	0	0	17
1143	12:26:00	2.438	0.294	237.39	10.8	0	0	18
1144	12:27:00	1.924	0.218	238.26	8	0	0	17
1145	12:28:00	1.954	0.244	238.24	8.2	0	0	17
1146	12:29:00	2.018	0.344	237.51	8.6	0	0	18
1147	12:30:00	2.014	0.346	237.63	8.6	0	0	17
1148	12:31:00	1.992	0.34	236.48	8.4	0	0	17
1149	12:32:00	1.996	0.344	237.2	8.4	0	0	17
1150	12:33:00	2.002	0.344	237.42	8.4	0	0	18
1151	12:34:00	1.964	0.292	237.15	8.4	0	0	17
1152	12:35:00	1.93	0.242	236.99	8.2	0	0	17
1153	12:36:00	1.83	0.304	237.22	7.8	0	0	17
1154	12:37:00	1.706	0.366	237.1	7.2	0	1	17
1155	12:38:00	2.93	0.574	236.1	13	0	2	18
1156	12:39:00	3.182	0.582	236.37	13.8	0	1	17
1157	12:40:00	1.718	0.37	237.78	7.4	0	1	17
1158	12:41:00	1.716	0.366	237.42	7.4	0	2	17
1159	12:42:00	1.71	0.364	236.75	7.4	0	1	17
1160	12:43:00	1.712	0.364	236.81	7.4	0	2	18
1161	12:44:00	1.702	0.36	235.93	7.2	0	1	17
1162	12:45:00	1.732	0.37	238.15	7.4	0	1	17
1163	12:46:00	1.722	0.366	237.32	7.4	0	2	17
1164	12:47:00	1.712	0.362	236.64	7.4	0	1	17
1165	12:48:00	1.716	0.364	236.92	7.4	0	1	18
1166	12:49:00	1.714	0.362	236.68	7.4	0	2	17
1167	12:50:00	1.71	0.362	236.6	7.4	0	1	17
1168	12:51:00	1.722	0.366	237.55	7.4	0	1	17
1169	12:52:00	1.72	0.366	237.38	7.4	0	2	17
1170	12:53:00	1.714	0.364	237.05	7.4	0	1	18
1171	12:54:00	1.736	0.372	238.67	7.4	0	1	17
1172	12:55:00	1.726	0.368	237.97	7.4	0	1	17
1173	12:56:00	1.712	0.364	236.97	7.4	0	2	18
1174	12:57:00	1.72	0.366	237.59	7.4	0	1	17
1175	12:58:00	1.718	0.364	237.38	7.4	0	1	17
1176	12:59:00	1.704	0.36	236.31	7.2	0	1	17
1177	13:00:00	1.754	0.392	237.65	7.6	0	1	18
1178	13:01:00	1.798	0.47	237.85	7.8	0	2	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1179	13:02:00	1.742	0.364	238.42	7.4	0	0	17
1180	13:03:00	1.74	0.354	238.72	7.4	0	0	18
1181	13:04:00	1.742	0.356	238.91	7.4	0	0	17
1182	13:05:00	1.75	0.358	239.53	7.4	0	0	18
1183	13:06:00	1.736	0.354	238.56	7.4	0	0	17
1184	13:07:00	1.712	0.344	236.85	7.2	0	0	17
1185	13:08:00	1.566	0.246	237.24	6.6	0	0	18
1186	13:09:00	1.488	0.196	236.94	6.2	0	0	17
1187	13:10:00	1.494	0.198	237.5	6.2	0	0	17
1188	13:11:00	1.504	0.202	238.52	6.2	0	0	18
1189	13:12:00	1.498	0.198	237.91	6.2	0	0	17
1190	13:13:00	1.44	0.104	238.95	6	0	0	17
1191	13:14:00	1.44	0.102	239.01	6	0	0	18
1192	13:15:00	1.434	0.1	238.37	6	0	0	17
1193	13:16:00	1.446	0.104	239.46	6	0	0	18
1194	13:17:00	1.442	0.102	239.19	6	0	0	17
1195	13:18:00	1.434	0.1	238.38	6	0	0	18
1196	13:19:00	1.456	0.106	240.35	6	0	0	17
1197	13:20:00	1.462	0.108	240.48	6	0	0	18
1198	13:21:00	1.478	0.112	241.88	6	0	0	18
1199	13:22:00	1.47	0.114	242.17	6	0	0	18
1200	13:23:00	1.456	0.11	241.05	6	0	0	18
1201	13:24:00	1.45	0.108	240.69	6	0	0	17
1202	13:25:00	1.448	0.108	240.46	6	0	0	18
1203	13:26:00	1.442	0.106	240.11	6	0	0	18
1204	13:27:00	1.446	0.108	240.45	6	0	0	17
1205	13:28:00	1.446	0.108	240.73	6	0	0	18
1206	13:29:00	1.44	0.106	240.29	6	0	0	18
1207	13:30:00	1.44	0.108	240.19	6	0	0	18
1208	13:31:00	1.436	0.106	240.06	6	0	0	17
1209	13:32:00	1.44	0.108	240.48	6	0	0	18
1210	13:33:00	1.436	0.106	240.2	6	0	0	18
1211	13:34:00	1.434	0.106	240.03	6	0	0	17
1212	13:35:00	1.648	0.102	239.8	6.8	0	0	18
1213	13:36:00	1.734	0.102	239.49	7.2	0	0	17
1214	13:37:00	1.816	0.202	239.02	7.6	0	0	18
1215	13:38:00	1.808	0.204	239.8	7.6	0	0	17
1216	13:39:00	1.822	0.21	240.61	7.6	0	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1217	13:40:00	1.822	0.21	240.47	7.6	0	0	18
1218	13:41:00	1.826	0.21	240.86	7.6	0	0	18
1219	13:42:00	1.824	0.21	240.8	7.6	0	0	17
1220	13:43:00	1.82	0.208	240.56	7.6	0	0	18
1221	13:44:00	1.81	0.206	239.91	7.6	0	0	18
1222	13:45:00	1.81	0.206	240.01	7.6	0	0	17
1223	13:46:00	1.806	0.206	239.84	7.6	0	0	18
1224	13:47:00	1.814	0.208	240.45	7.6	0	0	18
1225	13:48:00	1.812	0.208	240.41	7.6	0	0	17
1226	13:49:00	1.784	0.154	241.24	7.4	0	0	18
1227	13:50:00	1.758	0.112	241.6	7.2	0	0	18
1228	13:51:00	1.768	0.114	242.26	7.2	0	0	18
1229	13:52:00	1.764	0.112	242	7.2	0	0	18
1230	13:53:00	1.764	0.112	242.11	7.2	0	0	18
1231	13:54:00	2.152	0.106	241.42	9.2	0	0	18
1232	13:55:00	3.092	0.092	240.03	12.8	0	0	17
1233	13:56:00	1.79	0.108	241.81	7.4	0	0	18
1234	13:57:00	1.76	0.108	241.58	7.2	0	0	18
1235	13:58:00	1.752	0.104	240.73	7.2	0	0	18
1236	13:59:00	1.75	0.106	240.85	7.2	0	0	17
1237	14:00:00	1.744	0.104	240.38	7.2	0	0	18
1238	14:01:00	1.77	0.11	241.89	7.2	0	0	18
1239	14:02:00	1.794	0.118	243.5	7.4	0	0	18
1240	14:03:00	1.774	0.11	241.96	7.2	0	0	18
1241	14:04:00	1.782	0.112	242.61	7.2	0	0	18
1242	14:05:00	1.788	0.114	243.21	7.4	0	0	18
1243	14:06:00	2.4	0.134	242.58	10.2	0	0	18
1244	14:07:00	1.8	0.122	244.28	7.4	0	0	18
1245	14:08:00	1.938	0.12	244.51	8	0	0	19
1246	14:09:00	2.304	0.116	244.46	9.8	0	0	18
1247	14:10:00	2.066	0.142	243.75	8.6	0	0	18
1248	14:11:00	1.938	0.12	244.03	8	0	0	18
1249	14:12:00	1.802	0.122	244.71	7.4	0	0	19
1250	14:13:00	1.954	0.246	243.89	8	0	0	18
1251	14:14:00	2.058	0.316	243.32	8.6	0	0	18
1252	14:15:00	2.102	0.402	243.13	8.8	0	0	18
1253	14:16:00	2.118	0.404	244.38	8.8	0	0	18
1254	14:17:00	2.12	0.402	244.59	8.8	0	0	19

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1255	14:18:00	2.106	0.396	244.39	8.6	0	0	18
1256	14:19:00	2.124	0.4	245.83	8.8	0	0	18
1257	14:20:00	2.134	0.404	246.7	8.8	0	0	19
1258	14:21:00	2.134	0.404	246.85	8.8	0	0	19
1259	14:22:00	2.12	0.398	246.06	8.6	0	0	18
1260	14:23:00	2.122	0.394	246.31	8.6	0	0	19
1261	14:24:00	2.118	0.39	246.04	8.6	0	0	18
1262	14:25:00	2.106	0.386	245.34	8.6	0	0	19
1263	14:26:00	2.136	0.354	245.72	8.8	0	0	18
1264	14:27:00	2.51	0.274	246	10.4	0	0	19
1265	14:28:00	2.68	0.292	246.04	11.2	0	0	18
1266	14:29:00	2.372	0.282	245.64	9.8	0	0	19
1267	14:30:00	2.154	0.268	245.51	8.8	0	0	18
1268	14:31:00	2.146	0.266	245.08	8.8	0	0	18
1269	14:32:00	2.14	0.262	244.67	8.8	0	0	19
1270	14:33:00	2.142	0.26	244.49	8.8	0	0	18
1271	14:34:00	2.228	0.258	244.51	9	0	0	18
1272	14:35:00	2.19	0.254	243.88	9	0	0	18
1273	14:36:00	2.122	0.252	243.18	8.8	0	0	19
1274	14:37:00	2.118	0.25	242.89	8.6	0	0	18
1275	14:38:00	2.12	0.252	243.16	8.8	0	0	18
1276	14:39:00	2.118	0.25	242.94	8.6	0	0	18
1277	14:40:00	2.11	0.254	242.46	8.6	0	0	18
1278	14:41:00	2.11	0.266	242.6	8.6	0	0	18
1279	14:42:00	2.11	0.264	242.48	8.6	0	0	18
1280	14:43:00	2.108	0.264	242.47	8.6	0	0	18
1281	14:44:00	2.104	0.268	241.65	8.8	0	0	18
1282	14:45:00	1.856	0.238	242.58	7.6	0	0	18
1283	14:46:00	1.858	0.24	242.86	7.6	0	2	18
1284	14:47:00	1.87	0.244	243.87	7.6	0	1	18
1285	14:48:00	2.046	0.242	243.91	8.4	0	1	18
1286	14:49:00	2.152	0.236	243.17	8.8	0	2	18
1287	14:50:00	2.17	0.244	244.36	8.8	0	1	18
1288	14:51:00	2.162	0.24	243.88	8.8	0	2	19
1289	14:52:00	2.16	0.24	243.8	8.8	0	1	18
1290	14:53:00	2.154	0.24	243.78	8.8	0	1	18
1291	14:54:00	2.238	0.324	244.46	9.2	0	2	18
1292	14:55:00	2.24	0.348	244.05	9.2	0	1	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1293	14:56:00	2.248	0.352	244.6	9.2	0	2	19
1294	14:57:00	2.188	0.26	244.76	9	0	1	18
1295	14:58:00	2.152	0.212	244.71	8.8	0	1	18
1296	14:59:00	2.13	0.208	243.88	8.6	0	2	19
1297	15:00:00	2.11	0.202	243.11	8.6	0	1	18
1298	15:01:00	2.112	0.204	243.38	8.6	0	1	18
1299	15:02:00	2.12	0.208	244.07	8.6	0	2	18
1300	15:03:00	2.108	0.204	243.26	8.6	0	1	18
1301	15:04:00	2.106	0.204	243.31	8.6	0	1	18
1302	15:05:00	2.076	0.178	242.84	8.6	0	1	18
1303	15:06:00	1.996	0.07	241.88	8.2	0	2	18
1304	15:07:00	2.004	0.07	241.87	8.2	0	1	18
1305	15:08:00	2.01	0.074	242.78	8.2	0	1	18
1306	15:09:00	2.002	0.072	242.11	8.2	0	1	18
1307	15:10:00	1.934	0	241.73	8	0	0	18
1308	15:11:00	1.954	0	242.36	8	0	0	18
1309	15:12:00	2.06	0.08	242.68	8.4	0	0	18
1310	15:13:00	2.022	0.082	241.48	8.4	0	0	18
1311	15:14:00	2.128	0.08	241.38	8.8	0	0	18
1312	15:15:00	2.18	0.078	241.26	9	0	0	17
1313	15:16:00	2.178	0.078	241.22	9	0	0	18
1314	15:17:00	2.172	0.076	240.88	9	0	0	18
1315	15:18:00	2.18	0.078	241.42	9	0	0	18
1316	15:19:00	2.1	0.08	241.37	8.6	0	0	18
1317	15:20:00	2.142	0.084	241.85	8.8	0	0	18
1318	15:21:00	2.144	0.086	241.88	8.8	0	0	17
1319	15:22:00	2.07	0.088	242.3	8.4	0	0	18
1320	15:23:00	2.042	0.09	242.71	8.4	0	0	18
1321	15:24:00	3.006	0.106	241.29	12.4	0	0	18
1322	15:25:00	3.156	0.126	241.89	13	1	0	18
1323	15:26:00	3.118	0.106	240.9	12.8	1	0	18
1324	15:27:00	3.124	0.098	241.15	12.8	2	0	18
1325	15:28:00	4.502	0.082	238.42	19.8	1	0	17
1326	15:29:00	5.57	0.076	237.77	23.4	1	0	17
1327	15:30:00	3.054	0.1	240.93	13	1	0	18
1328	15:31:00	2.886	0.17	240.92	12	1	0	18
1329	15:32:00	2.902	0.208	241.53	12	2	0	18
1330	15:33:00	2.892	0.204	240.76	12	1	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1331	15:34:00	2.888	0.204	240.83	12	1	0	17
1332	15:35:00	2.88	0.202	240.21	12	1	0	18
1333	15:36:00	2.858	0.198	239.38	11.8	1	0	18
1334	15:37:00	3.382	0.148	238.54	14.6	9	0	17
1335	15:38:00	4.944	0.048	236.93	20.8	38	0	17
1336	15:39:00	4.928	0.048	236.76	20.8	38	0	17
1337	15:40:00	4.908	0.046	236.28	20.6	38	0	17
1338	15:41:00	4.918	0.046	236.66	20.6	37	0	18
1339	15:42:00	4.956	0.05	237.67	20.8	38	0	17
1340	15:43:00	4.944	0.052	237.55	20.8	38	0	17
1341	15:44:00	4.968	0	237.92	20.8	38	0	17
1342	15:45:00	4.89	0	236.94	20.6	38	0	18
1343	15:46:00	4.9	0	237.11	20.6	38	0	17
1344	15:47:00	2.812	0	240.43	11.8	4	0	18
1345	15:48:00	4.794	0	238.88	20.2	33	0	17
1346	15:49:00	2.92	0	239.87	12.2	5	0	18
1347	15:50:00	2.852	0	239.6	11.8	1	0	17
1348	15:51:00	2.814	0	239.64	11.6	2	0	18
1349	15:52:00	2.744	0	239.6	11.4	1	0	17
1350	15:53:00	2.76	0	240.5	11.4	1	0	18
1351	15:54:00	2.758	0	240.87	11.4	1	0	18
1352	15:55:00	2.824	0.068	240.25	11.6	2	0	18
1353	15:56:00	2.848	0.118	240.31	11.8	1	0	17
1354	15:57:00	2.844	0.118	239.97	11.8	1	0	18
1355	15:58:00	2.81	0.112	238.46	11.8	1	0	17
1356	15:59:00	2.82	0.116	239	11.8	1	0	18
1357	16:00:00	2.818	0.114	239.01	11.8	2	0	17
1358	16:01:00	2.842	0.126	239.73	11.8	1	0	18
1359	16:02:00	2.834	0.12	239.83	11.8	1	0	17
1360	16:03:00	2.83	0.118	239.79	11.8	1	0	18
1361	16:04:00	2.824	0.118	239.51	11.8	1	0	18
1362	16:05:00	2.814	0.116	238.95	11.8	2	0	17
1363	16:06:00	2.794	0.112	237.97	11.6	1	0	17
1364	16:07:00	2.794	0.112	237.98	11.6	1	0	18
1365	16:08:00	2.78	0.11	237.26	11.6	1	0	17
1366	16:09:00	2.78	0.11	237.39	11.6	1	0	17
1367	16:10:00	2.756	0.138	236.41	11.6	2	0	17
1368	16:11:00	2.748	0.13	237.14	11.6	0	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1369	16:12:00	2.776	0.116	236.79	11.6	2	0	17
1370	16:13:00	2.842	0.154	238.03	12	1	0	17
1371	16:14:00	2.856	0.184	238.47	12	1	0	17
1372	16:15:00	2.798	0.088	238.96	11.6	1	0	18
1373	16:16:00	2.81	0.09	239.43	11.6	1	0	18
1374	16:17:00	2.81	0.088	239.55	11.6	2	0	17
1375	16:18:00	2.792	0.088	238.81	11.6	1	0	18
1376	16:19:00	2.792	0.114	238.95	11.6	1	0	17
1377	16:20:00	2.75	0.112	238.63	11.4	1	0	17
1378	16:21:00	2.762	0.094	237.46	11.6	1	0	18
1379	16:22:00	4.838	0.066	235.24	20.6	34	0	17
1380	16:23:00	4.878	0.064	234.93	20.6	37	0	17
1381	16:24:00	4.864	0	235.59	20.6	37	0	17
1382	16:25:00	4.868	0	236.61	20.4	38	0	17
1383	16:26:00	4.876	0	236.75	20.6	37	0	17
1384	16:27:00	4.81	0	235.09	20.4	37	0	17
1385	16:28:00	4.79	0	234.48	20.4	37	0	17
1386	16:29:00	4.784	0	234.2	20.4	37	0	17
1387	16:30:00	4.806	0	234.92	20.4	37	0	16
1388	16:31:00	4.834	0	235.96	20.4	37	0	17
1389	16:32:00	4.856	0	236.54	20.4	38	0	18
1390	16:33:00	4.844	0	236.17	20.4	37	0	17
1391	16:34:00	4.912	0.084	234.94	20.8	37	0	17
1392	16:35:00	3.12	0.1	237.16	13.6	8	0	17
1393	16:36:00	2.73	0.1	237.83	11.4	0	0	17
1394	16:37:00	2.962	0.096	237.8	12.4	0	0	17
1395	16:38:00	2.764	0.104	237.65	11.6	0	0	18
1396	16:39:00	2.748	0.138	238.22	11.4	1	0	17
1397	16:40:00	2.722	0.106	237.75	11.4	0	0	17
1398	16:41:00	2.768	0.098	237.72	11.6	0	0	18
1399	16:42:00	2.832	0.098	238.25	11.8	0	0	17
1400	16:43:00	2.804	0.092	236.91	11.8	0	0	17
1401	16:44:00	2.788	0.09	236.12	11.8	0	0	17
1402	16:45:00	2.802	0.092	236.72	11.8	0	0	18
1403	16:46:00	2.8	0.092	236.59	11.8	0	0	17
1404	16:47:00	2.776	0.088	235.4	11.8	0	0	17
1405	16:48:00	2.768	0.1	234.2	11.8	0	0	16
1406	16:49:00	2.798	0.116	234.66	11.8	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1407	16:50:00	2.846	0.098	234.7	12	0	0	17
1408	16:51:00	3.234	0.072	233.86	13.8	0	0	17
1409	16:52:00	3.256	0	235	13.8	0	0	17
1410	16:53:00	3.272	0	235.64	13.8	0	0	17
1411	16:54:00	3.328	0.1	235.31	14.2	0	0	17
1412	16:55:00	3.316	0.128	234.47	14	0	0	17
1413	16:56:00	3.39	0.18	235.44	14.4	0	0	17
1414	16:57:00	3.418	0.248	235.23	14.4	0	1	17
1415	16:58:00	3.384	0.244	233.64	14.4	0	1	16
1416	16:59:00	3.374	0.242	233.17	14.4	0	2	17
1417	17:00:00	3.388	0.244	233.82	14.4	0	1	17
1418	17:01:00	3.376	0.242	233.35	14.4	0	2	17
1419	17:02:00	3.354	0.238	232.46	14.4	0	1	16
1420	17:03:00	3.472	0.236	232.29	15	0	1	17
1421	17:04:00	3.484	0.176	231.57	15	0	2	16
1422	17:05:00	3.422	0.136	231.18	14.8	0	1	16
1423	17:06:00	3.416	0.136	230.94	14.8	0	1	17
1424	17:07:00	3.446	0.136	231.33	14.8	0	2	16
1425	17:08:00	3.66	0.138	233.01	15.6	0	1	17
1426	17:09:00	3.586	0.144	233.93	15.2	0	1	17
1427	17:10:00	3.556	0.14	232.83	15.2	0	2	16
1428	17:11:00	3.604	0.156	234.18	15.4	0	1	17
1429	17:12:00	3.728	0.276	235.76	15.8	0	1	17
1430	17:13:00	3.7	0.27	234.86	15.8	0	2	17
1431	17:14:00	3.678	0.268	234.11	15.6	0	1	17
1432	17:15:00	3.67	0.266	233.91	15.6	0	1	17
1433	17:16:00	3.702	0.272	235.24	15.8	0	1	17
1434	17:17:00	3.744	0.276	234.86	16	0	1	16
1435	17:18:00	3.796	0.288	234.46	16.2	0	2	17
1436	17:19:00	3.808	0.288	234.74	16.2	0	1	17
1437	17:20:00	3.58	0.294	235.39	15.2	0	1	17
1438	17:21:00	3.37	0.22	233.34	14.4	0	1	17
1439	17:22:00	3.13	0.174	234.05	13.4	0	0	17
1440	17:23:00	3.238	0.172	233.58	13.8	0	0	16

The UNIVARIATE Procedure
Variable: Global_active_power (Global_active_power)

Moments			
N	1440	Sum Weights	1440
Mean	2.48772778	Sum Observations	3582.328
Std Deviation	1.2020103	Variance	1.44482876
Skewness	0.44117526	Kurtosis	0.89194873
Uncorrected SS	10990.9655	Corrected SS	2079.10859
Coeff Variation	48.3175977	Std Error Mean	0.03167575

Basic Statistical Measures			
Location		Variability	
Mean	2.487728	Std Deviation	1.20201
Median	2.395000	Variance	1.44483
Mode	2.426000	Range	7.50000
		Interquartile Range	1.50400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	78.53729	Pr > t 	<.0001
Sign	M	720	Pr >= M 	<.0001
Signed Rank	S	518760	Pr >= S 	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.966882	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.084584	Pr > D	<0.0100
Cramer-von Mises	W-Sq	1.958033	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	12.20664	Pr > A-Sq	<0.0050

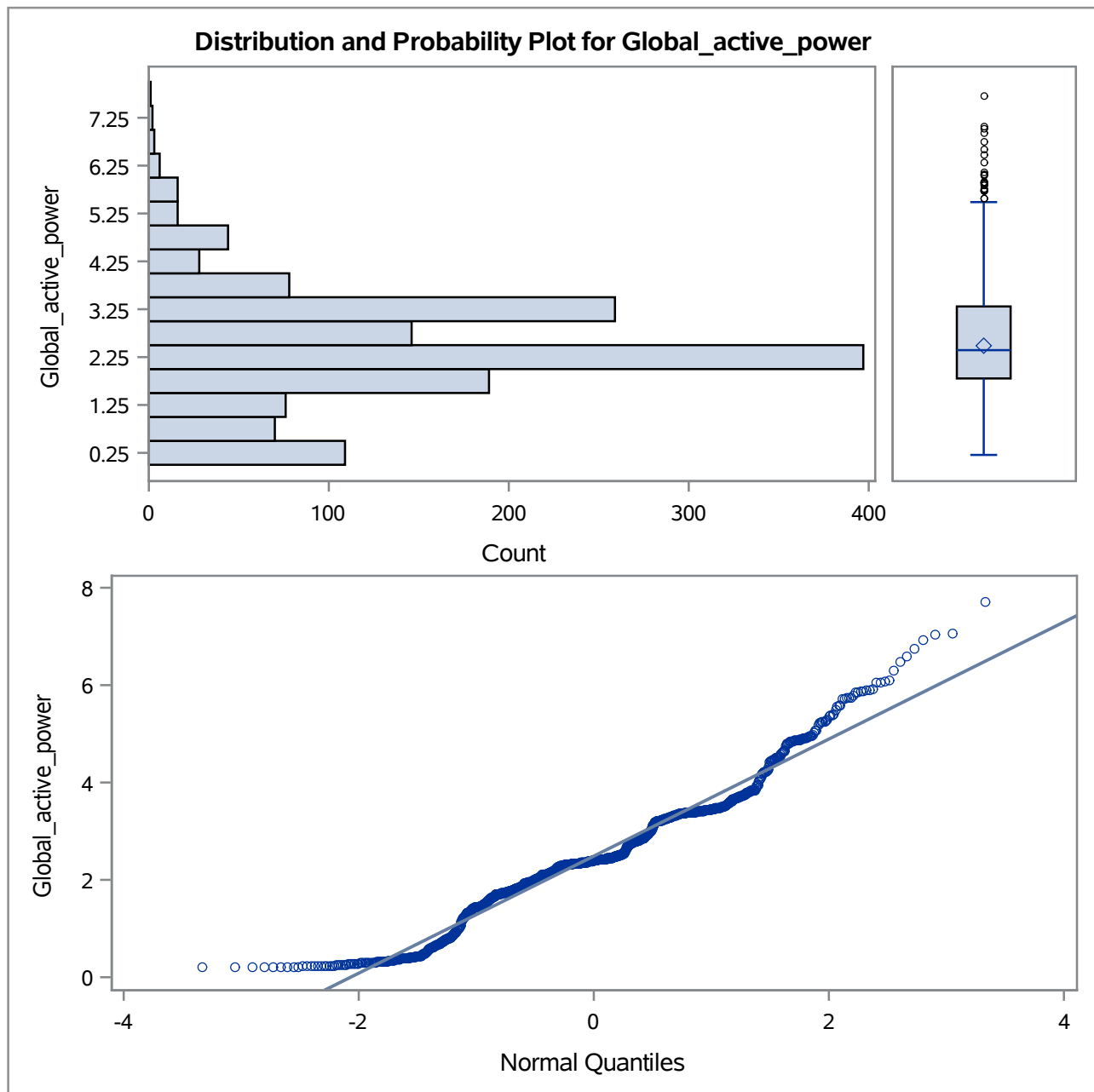
Quantiles (Definition 5)	
Level	Quantile
100% Max	7.706
99%	5.894
95%	4.787
90%	3.745
75% Q3	3.308
50% Median	2.395
25% Q1	1.804

The UNIVARIATE Procedure
Variable: Global_active_power (Global_active_power)

Quantiles (Definition 5)	
Level	Quantile
10%	0.742
5%	0.373
1%	0.224
0% Min	0.206

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.206	660	6.752	43
0.206	569	6.926	941
0.208	590	7.026	23
0.210	879	7.064	940
0.210	821	7.706	22

The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: Global_reactive_power (Global_reactive_power)

Moments			
N	1440	Sum Weights	1440
Mean	0.11965556	Sum Observations	172.304
Std Deviation	0.10721099	Variance	0.0114942
Skewness	1.20540381	Kurtosis	1.43708844
Uncorrected SS	37.15728	Corrected SS	16.5401492
Coeff Variation	89.5996775	Std Error Mean	0.00282526

Basic Statistical Measures			
Location		Variability	
Mean	0.119656	Std Deviation	0.10721
Median	0.090000	Variance	0.01149
Mode	0.000000	Range	0.58200
		Interquartile Range	0.12500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	42.35209	Pr > t 	<.0001
Sign	M	578.5	Pr >= M 	<.0001
Signed Rank	S	334951.5	Pr >= S 	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.889563	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.136021	Pr > D	<0.0100
Cramer-von Mises	W-Sq	7.165706	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	42.78723	Pr > A-Sq	<0.0050

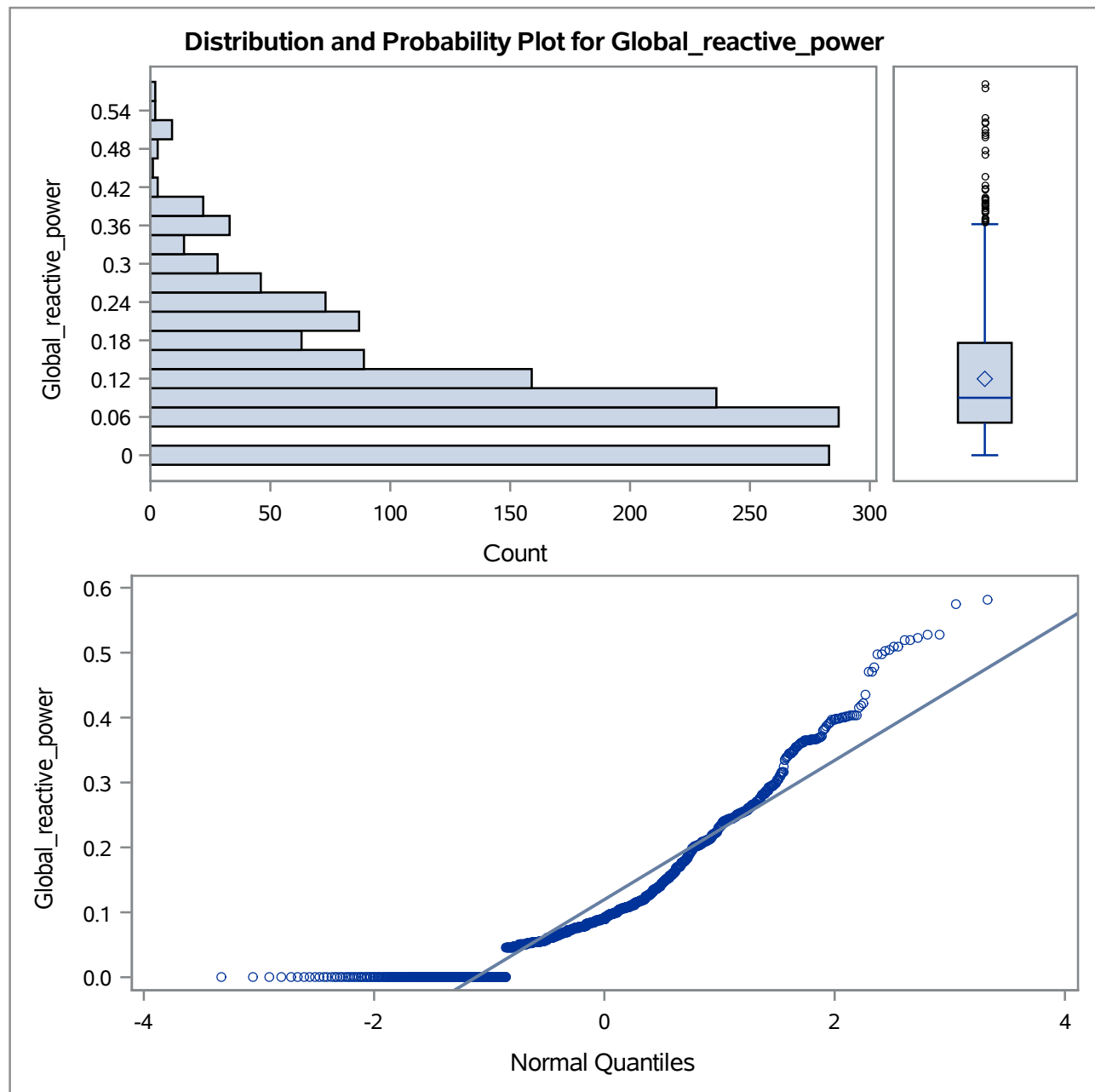
Quantiles (Definition 5)	
Level	Quantile
100% Max	0.582
99%	0.470
95%	0.349
90%	0.265
75% Q3	0.176
50% Median	0.090
25% Q1	0.051

The UNIVARIATE Procedure
Variable: Global_reactive_power (Global_reactive_power)

Quantiles (Definition 5)	
Level	Quantile
10%	0.000
5%	0.000
1%	0.000
0% Min	0.000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	1410	0.522	6
0	1409	0.528	5
0	1390	0.528	1141
0	1389	0.574	1155
0	1388	0.582	1156

The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: Global_intensity (Global_intensity)

Moments			
N	1440	Sum Weights	1440
Mean	10.5925	Sum Observations	15253.2
Std Deviation	5.01625426	Variance	25.1628068
Skewness	0.56877072	Kurtosis	1.15221283
Uncorrected SS	197778.8	Corrected SS	36209.279
Coeff Variation	47.3566605	Std Error Mean	0.13218991

Basic Statistical Measures			
Location		Variability	
Mean	10.59250	Std Deviation	5.01625
Median	9.80000	Variance	25.16281
Mode	9.60000	Range	32.40000
		Interquartile Range	6.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	80.13093	Pr > t 	<.0001
Sign	M	720	Pr >= M 	<.0001
Signed Rank	S	518760	Pr >= S 	<.0001

Tests for Normality				
Test	Statistic		p Value	
Shapiro-Wilk	W	0.962606	Pr < W	<0.0001
Kolmogorov-Smirnov	D	0.107667	Pr > D	<0.0100
Cramer-von Mises	W-Sq	2.617792	Pr > W-Sq	<0.0050
Anderson-Darling	A-Sq	14.70686	Pr > A-Sq	<0.0050

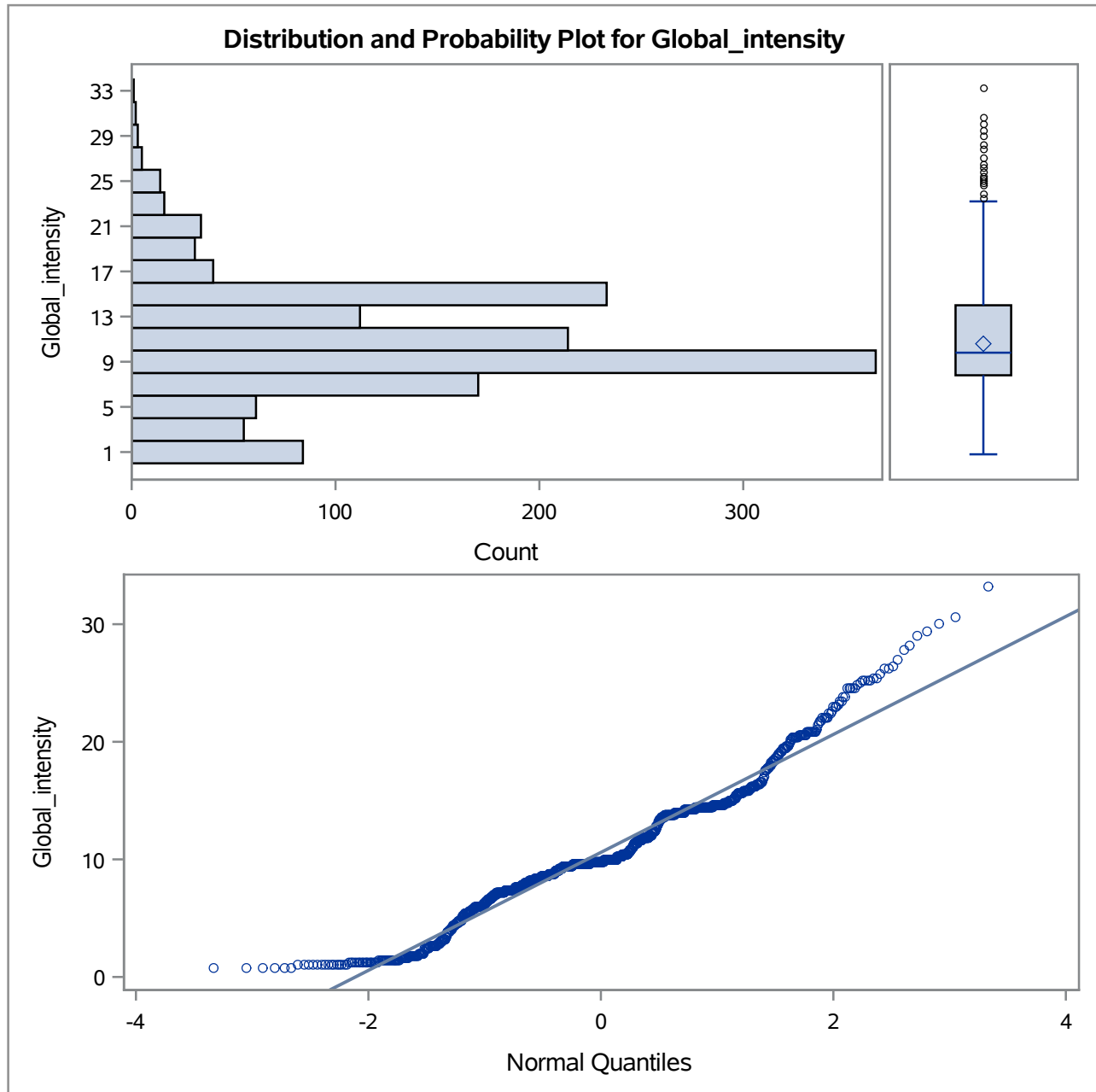
Quantiles (Definition 5)	
Level	Quantile
100% Max	33.2
99%	25.2
95%	20.3
90%	16.0
75% Q3	14.0
50% Median	9.8
25% Q1	7.8

The UNIVARIATE Procedure
Variable: Global_intensity (Global_intensity)

Quantiles (Definition 5)	
Level	Quantile
10%	4.2
5%	1.8
1%	1.0
0% Min	0.8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.8	821	29.0	43
0.8	815	29.4	941
0.8	660	30.0	940
0.8	590	30.6	23
0.8	569	33.2	22

The UNIVARIATE Procedure



The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=6 Maxiter=20 Converge=0.02

Initial Seeds			
Cluster	Global_active_power	Global_reactive_power	Global_intensity
1	7.70600000	0.00000000	33.20000000
2	4.96800000	0.00000000	20.80000000
3	1.79800000	0.47000000	7.80000000
4	6.47400000	0.14400000	27.80000000
5	3.35400000	0.23800000	14.40000000
6	0.20600000	0.00000000	0.80000000

Minimum Distance Between Initial Seeds =	5.540628
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Iteration History							
Iteration	Criterion	Relative Change in Cluster Seeds					
		1	2	3	4	5	6
1	0.9988	0.2425	0.1007	0.1585	0.3142	0.0938	0.2213
2	0.8340	0.2685	0.0651	0.0320	0.1705	0.00204	0.0810
3	0.8118	0.0691	0.0335	0.0143	0.0807	0.00129	0.0468
4	0.8060	0.0601	0.0123	0.00429	0.0495	0	0.0141
5	0.8052	0	0.0131	0.00150	0	0.00140	0.00288

Convergence criterion is satisfied.

Criterion Based on Final Seeds =	0.8051
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Cluster Summary						
Cluster	Frequency	RMS Std Deviation	Maximum Distance from Seed to Observation	Radius Exceeded	Nearest Cluster	Distance Between Cluster Centroids
1	7	1.0698	3.5437		4	5.4027
2	82	0.8294	2.9015		4	4.9825
3	683	0.7644	3.1264		5	5.1425
4	29	0.7601	2.5912		2	4.9825
5	440	0.7938	2.8084		3	5.1425
6	199	0.9519	3.1262		3	6.2198

The FASTCLUS Procedure

Replace=FULL Radius=0 Maxclusters=6 Maxiter=20 Converge=0.02

Statistics for Variables				
Variable	Total STD	Within STD	R-Square	RSQ/(1-RSQ)
Global_active_power	1.20201	0.33232	0.923830	12.128606
Global_reactive_power	0.10721	0.10433	0.056399	0.059770
Global_intensity	5.01625	1.35319	0.927482	12.789660
OVER-ALL	2.97877	0.80673	0.926908	12.681307

Pseudo F Statistic =	3637.00
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Approximate Expected Over-All R-Squared =	0.92465
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Cubic Clustering Criterion =	1.268
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WARNING: The two values above are invalid for correlated variables.

Cluster Means			
Cluster	Global_active_power	Global_reactive_power	Global_intensity
1	6.93257143	0.08971429	29.74285714
2	4.61846341	0.10346341	19.62439024
3	2.10293704	0.12840703	8.86676428
4	5.71172414	0.26455172	24.48275862
5	3.27419545	0.11561364	13.87409091
6	0.56529648	0.08516583	2.84020101

Cluster Standard Deviations			
Cluster	Global_active_power	Global_reactive_power	Global_intensity
1	0.406496764	0.072373371	1.806338048
2	0.341373594	0.114170783	1.390759716
3	0.352360736	0.105288786	1.271844637
4	0.282448339	0.161822563	1.275614408
5	0.305572882	0.103909834	1.336456264
6	0.318081413	0.086642232	1.615453140

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1	17:39:00	3.384	0.282	237.14	14.2	0	0	17
2	17:40:00	3.27	0.152	236.73	13.8	0	0	17
3	17:41:00	3.43	0.156	237.06	14.4	0	0	17
4	17:42:00	3.266	0	237.13	13.8	0	0	18
5	17:43:00	3.728	0	235.84	16.4	0	0	17
6	17:47:00	5.174	0	234.19	22	0	0	17
7	17:48:00	4.474	0	234.96	19.4	0	0	17
8	17:49:00	3.248	0	236.66	13.6	0	0	17
9	17:50:00	3.236	0	235.84	13.6	0	0	17
10	17:51:00	3.228	0	235.6	13.6	0	0	17
11	17:52:00	3.258	0	235.49	13.8	0	0	17
12	17:53:00	3.178	0	235.28	13.4	0	0	17
13	17:54:00	2.72	0	235.06	11.6	0	0	17
14	17:55:00	3.758	0.076	234.17	16.4	0	0	17
15	17:56:00	4.342	0.09	233.77	18.4	0	0	16
16	17:57:00	4.512	0	233.62	19.2	0	0	17
17	17:58:00	4.058	0.2	234.68	17.6	0	0	17
18	17:59:00	2.472	0.058	236.94	10.4	0	0	17
19	18:00:00	2.79	0.18	237.52	11.8	0	0	18
20	18:01:00	2.624	0.144	238.2	11	0	0	17
21	18:02:00	2.772	0.118	238.28	11.6	0	0	17
22	18:03:00	3.74	0.108	236.93	16.4	0	16	18
23	18:04:00	4.928	0.202	235.01	21	0	37	16
24	18:09:00	4.464	0.136	234.66	19	0	37	16
25	18:10:00	3.396	0.148	236.2	15	0	22	18
26	18:11:00	3.09	0.152	237.07	13.8	0	12	17
27	18:12:00	3.73	0.144	235.78	16.4	0	27	17
28	18:13:00	2.308	0.16	237.43	9.6	0	1	17
29	18:14:00	2.388	0.158	237.26	10	0	1	17
30	18:15:00	4.598	0.1	234.25	21.4	0	20	17
31	18:16:00	4.524	0.076	234.2	19.6	0	9	17
32	18:17:00	4.202	0.082	234.31	17.8	0	1	17
33	18:18:00	4.472	0	233.29	19.2	0	1	16
34	18:19:00	2.852	0	235.61	12	0	1	17
35	18:20:00	2.928	0	235.25	12.4	0	1	17
36	18:21:00	2.94	0	236.04	12.4	0	2	17
37	18:22:00	2.934	0	235.51	12.4	0	1	17
38	18:23:00	2.926	0	235.68	12.4	0	1	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
39	18:24:00	3.452	0	235.2	15.2	0	1	17
40	18:25:00	4.87	0	233.74	20.8	0	1	17
41	18:26:00	4.868	0	233.84	20.8	0	1	17
42	18:27:00	4.866	0	233.79	20.8	0	1	17
43	18:28:00	3.176	0	235.5	13.8	0	1	17
44	18:29:00	2.92	0	235.84	12.4	0	1	17
45	18:30:00	2.93	0	236.15	12.4	0	1	17
46	18:31:00	2.912	0.05	235.81	12.4	0	1	17
47	18:32:00	2.608	0.052	235.41	11	0	1	17
48	18:33:00	2.714	0.162	234.82	11.6	0	0	17
49	18:34:00	3.538	0.086	233.76	15.6	0	1	16
50	18:36:00	4.536	0	233.54	19.4	0	1	17
51	18:37:00	4.408	0	232.32	18.8	0	1	16
52	18:38:00	2.912	0.048	234.02	13	0	1	17
53	18:39:00	2.326	0.054	234.76	9.8	0	1	17
54	18:40:00	2.264	0.054	234.67	9.6	0	1	17
55	18:41:00	2.27	0.054	235.27	9.6	0	1	17
56	18:42:00	2.258	0.054	235.12	9.6	0	1	17
57	18:43:00	2.188	0.068	235.8	9.2	0	1	17
58	18:44:00	2.978	0.166	234.81	13.2	0	1	17
59	18:45:00	4.2	0.174	234.38	17.8	0	1	17
60	18:46:00	4.204	0.186	234.2	17.8	0	1	16
61	18:47:00	4.218	0.178	233.98	18	0	1	17
62	18:48:00	2.786	0.188	234.99	12	0	2	17
63	18:49:00	2.54	0.088	234.67	10.8	0	4	17
64	18:50:00	2.496	0.08	233.92	10.6	0	3	17
65	18:51:00	2.336	0.07	233.51	10	0	1	16
66	18:52:00	2.322	0	233.44	9.8	0	0	17
67	18:53:00	2.448	0	233.64	10.6	0	1	17
68	18:54:00	4.298	0	232.39	18.4	0	1	16
69	18:55:00	4.23	0.09	232.25	18.2	0	1	17
70	18:56:00	4.23	0.09	232.32	18.2	0	2	16
71	18:57:00	3.924	0.084	232.79	17	0	1	17
72	18:58:00	4.218	0.09	232.09	18	0	1	17
73	18:59:00	4.224	0.09	231.96	18.2	0	1	16
74	19:00:00	4.07	0.088	231.99	17.4	0	1	17
75	19:01:00	3.612	0.09	232.36	15.6	0	2	16
76	19:02:00	3.458	0.09	232.71	14.8	0	1	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
77	19:03:00	3.434	0.09	232.01	14.8	0	1	16
78	19:04:00	3.366	0	232.78	14.4	0	1	17
79	19:05:00	3.404	0.082	233.08	14.6	0	2	16
80	19:06:00	3.382	0.074	233.69	14.4	0	0	17
81	19:07:00	3.616	0.106	234.44	15.4	0	4	17
82	19:08:00	3.476	0.092	234.6	14.8	0	3	17
83	19:09:00	3.394	0.064	235.12	14.4	0	0	17
84	19:10:00	3.4	0	234.28	14.4	0	1	17
85	19:11:00	3.414	0	234.19	14.4	0	1	17
86	19:12:00	3.432	0	234.69	14.6	0	1	16
87	19:13:00	3.418	0	234.26	14.6	0	2	17
88	19:14:00	3.392	0	233.3	14.4	0	1	17
89	19:15:00	3.394	0	233.43	14.4	0	1	17
90	19:16:00	3.394	0	233.45	14.4	0	1	16
91	19:17:00	3.406	0	233.91	14.4	0	2	17
92	19:18:00	3.42	0	234.43	14.6	0	1	17
93	19:19:00	3.418	0	234.34	14.4	0	1	17
94	19:20:00	3.422	0.052	234.58	14.6	0	1	17
95	19:21:00	3.332	0	234.02	14.2	0	1	16
96	19:22:00	3.316	0.046	234.29	14	0	1	17
97	19:23:00	3.334	0	234.36	14.2	0	2	17
98	19:24:00	3.262	0.052	232.64	14	0	0	17
99	19:25:00	3.476	0.064	232.96	14.8	0	3	16
100	19:26:00	3.62	0.09	233.47	15.4	0	5	17
101	19:27:00	3.61	0.084	234.98	15.2	0	5	17
102	19:28:00	3.646	0.138	234.34	15.4	0	5	17
103	19:29:00	3.614	0.192	233.92	15.4	0	5	17
104	19:30:00	3.408	0.162	233.94	14.4	0	2	16
105	19:31:00	3.388	0.134	233.72	14.4	0	1	17
106	19:32:00	3.372	0.132	233.2	14.4	0	2	17
107	19:33:00	3.37	0.132	233.1	14.4	0	1	16
108	19:34:00	3.342	0.12	232.29	14.4	0	1	17
109	19:35:00	3.284	0	232.45	14	0	2	16
110	19:36:00	3.276	0	231.97	14	0	1	17
111	19:37:00	3.382	0.13	232.42	14.4	0	2	17
112	19:38:00	3.418	0.16	233.38	14.6	0	1	16
113	19:39:00	3.396	0.158	232.69	14.6	0	1	17
114	19:40:00	3.406	0.158	233.2	14.6	0	2	16

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
115	19:41:00	3.406	0.158	233.26	14.6	0	1	17
116	19:42:00	3.392	0.156	232.84	14.4	0	1	17
117	19:43:00	3.378	0.154	232.39	14.4	0	2	16
118	19:44:00	3.368	0.154	232.14	14.4	0	1	17
119	19:45:00	3.35	0.152	231.57	14.4	0	1	16
120	19:46:00	3.352	0.152	231.66	14.4	0	2	17
121	19:47:00	3.364	0.154	232.22	14.4	0	1	16
122	19:48:00	3.38	0.156	232.81	14.4	0	1	17
123	19:49:00	3.404	0.16	233.77	14.4	0	1	17
124	19:50:00	3.378	0.156	232.82	14.4	0	2	16
125	19:51:00	3.388	0.158	233.22	14.4	0	1	17
126	19:52:00	3.376	0.156	232.84	14.4	0	1	17
127	19:53:00	3.254	0	232.75	13.8	0	0	16
128	19:54:00	3.214	0.078	232.64	13.8	0	0	17
129	19:55:00	3.202	0.078	232.2	13.8	0	0	16
130	19:56:00	3.202	0.078	232.2	13.8	0	0	17
131	19:57:00	3.212	0.078	232.58	13.8	0	0	16
132	19:58:00	3.206	0.078	232.4	13.8	0	0	17
133	19:59:00	3.214	0.078	232.66	13.8	0	0	17
134	20:00:00	3.206	0.078	232.43	13.8	0	0	16
135	20:01:00	3.222	0.078	233.02	13.8	0	0	17
136	20:02:00	3.216	0.076	232.8	13.8	0	0	16
137	20:03:00	3.216	0.078	232.79	13.8	0	0	17
138	20:04:00	3.194	0.078	231.98	13.6	0	0	16
139	20:05:00	3.278	0	232.88	14	0	0	17
140	20:06:00	3.282	0	232.52	14	0	0	17
141	20:07:00	3.292	0	232.87	14	0	0	16
142	20:08:00	3.316	0	233.78	14	0	0	17
143	20:09:00	3.37	0.08	233.69	14.4	0	0	17
144	20:10:00	3.42	0.144	234.04	14.6	0	0	17
145	20:11:00	3.41	0.142	233.93	14.6	0	0	16
146	20:12:00	3.4	0.14	233.62	14.4	0	0	17
147	20:13:00	3.4	0.14	233.64	14.4	0	0	17
148	20:14:00	3.388	0.14	233.26	14.4	0	0	16
149	20:15:00	3.37	0.086	233.9	14.4	0	0	17
150	20:16:00	3.332	0	233.68	14.2	0	0	17
151	20:17:00	3.31	0	232.83	14.2	0	0	17
152	20:18:00	3.312	0	233	14.2	0	0	16

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
153	20:19:00	3.314	0	233.08	14.2	0	0	17
154	20:20:00	3.302	0	232.69	14.2	0	0	16
155	20:21:00	3.302	0	232.91	14	0	0	17
156	20:22:00	3.3	0	232.87	14	0	0	17
157	20:23:00	3.29	0	232.42	14	0	0	16
158	20:24:00	3.286	0	232.31	14	0	0	17
159	20:25:00	3.23	0.052	232.79	13.8	0	0	16
160	20:26:00	3.218	0.078	233.05	13.8	0	0	17
161	20:27:00	3.258	0.076	234.57	13.8	0	0	17
162	20:28:00	3.264	0.076	234.79	13.8	0	0	17
163	20:29:00	3.26	0.076	234.6	13.8	0	0	17
164	20:30:00	3.262	0.076	234.54	13.8	0	0	17
165	20:31:00	3.264	0.076	234.6	13.8	0	0	16
166	20:32:00	3.238	0.076	233.77	13.8	0	0	17
167	20:33:00	3.228	0.078	233.5	13.8	0	0	17
168	20:34:00	3.222	0.078	233.27	13.8	0	0	17
169	20:35:00	3.226	0.078	233.37	13.8	0	0	16
170	20:36:00	3.206	0.078	232.64	13.6	0	0	17
171	20:37:00	3.188	0.08	231.95	13.6	0	0	16
172	20:38:00	3.196	0.08	232.21	13.6	0	0	17
173	20:39:00	3.204	0.078	232.5	13.6	0	0	16
174	20:40:00	3.232	0.078	233.63	13.8	0	0	17
175	20:41:00	3.254	0.074	234.43	13.8	0	0	17
176	20:42:00	3.376	0.05	234.63	14.4	0	0	17
177	20:43:00	3.372	0.048	235.05	14.2	0	0	17
178	20:44:00	3.366	0.048	234.96	14.2	0	0	17
179	20:45:00	3.386	0.05	235.77	14.2	0	0	17
180	20:46:00	3.496	0.146	236.76	14.8	0	0	17
181	20:47:00	3.426	0.146	234.59	14.6	0	0	17
182	20:48:00	3.44	0.148	235.13	14.6	0	0	17
183	20:49:00	3.44	0.146	235.14	14.6	0	0	17
184	20:50:00	3.454	0.15	235.75	14.6	0	0	17
185	20:51:00	3.45	0.15	235.69	14.6	0	0	17
186	20:52:00	3.48	0.154	236.86	14.6	0	0	17
187	20:53:00	3.474	0.152	236.72	14.6	0	0	17
188	20:54:00	3.456	0.15	236.05	14.6	0	0	17
189	20:55:00	1.832	0.17	237.54	8.4	0	0	17
190	20:56:00	2.044	0.102	237.44	9.4	0	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
191	20:57:00	3.354	0	237	14	0	0	17
192	20:58:00	3.282	0.074	235.55	13.8	0	0	17
193	20:59:00	3.308	0.074	236.51	14	0	0	17
194	21:00:00	3.314	0.072	236.76	14	0	0	17
195	21:01:00	3.306	0.072	237.11	13.8	0	0	17
196	21:02:00	1.692	0.054	238.72	7.8	0	0	18
197	21:03:00	3.342	0.07	237.66	14	0	0	17
198	21:04:00	3.354	0.07	238.2	14	0	0	17
199	21:05:00	3.334	0.072	237.46	14	0	0	18
200	21:06:00	3.33	0.072	237.36	14	0	0	17
201	21:07:00	2.74	0.064	238.13	12	0	0	17
202	21:08:00	2.188	0.06	237.74	10	0	0	18
203	21:09:00	3.33	0.07	237.26	14	0	0	17
204	21:10:00	3.34	0.07	237.69	14	0	0	17
205	21:11:00	3.306	0.072	236.44	14	0	0	17
206	21:12:00	3.044	0.072	236.23	13.2	0	0	17
207	21:13:00	1.766	0.058	237.7	8.2	0	0	18
208	21:14:00	3.376	0	235.73	14.2	0	0	17
209	21:15:00	3.414	0.052	236.51	14.4	0	0	17
210	21:16:00	3.426	0.054	237.11	14.4	0	0	17
211	21:17:00	3.42	0.054	237.06	14.4	0	0	17
212	21:18:00	1.876	0.074	238.63	8.6	0	0	18
213	21:19:00	3.442	0.056	237.58	14.4	0	0	17
214	21:20:00	3.414	0.054	236.87	14.4	0	0	17
215	21:21:00	3.412	0.056	236.94	14.4	0	0	17
216	21:22:00	2.542	0.068	238.17	11.4	0	0	18
217	21:23:00	2.82	0.062	237.42	12.4	0	0	17
218	21:24:00	3.41	0.054	236.91	14.4	0	0	17
219	21:25:00	3.392	0.052	236.24	14.2	0	0	17
220	21:26:00	2.878	0.06	237.17	12.6	0	0	17
221	21:27:00	1.848	0.112	238.59	8.4	0	0	18
222	21:28:00	3.494	0.144	237.43	14.6	0	0	17
223	21:29:00	3.42	0	237.73	14.2	0	0	17
224	21:30:00	3.226	0	237.2	13.8	0	0	18
225	21:31:00	1.948	0	238.41	9	0	0	17
226	21:32:00	3.392	0	236.6	14.2	0	0	17
227	21:33:00	3.368	0	236.12	14.2	0	0	17
228	21:34:00	3.378	0	236.54	14.2	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
229	21:35:00	1.872	0	238.48	8.6	0	0	18
230	21:36:00	3.212	0	237.27	13.6	0	0	17
231	21:37:00	3.346	0	237.06	14	0	0	17
232	21:38:00	3.308	0.072	236.49	14	0	0	17
233	21:39:00	3.302	0.072	236.28	13.8	0	0	17
234	21:40:00	2.36	0.064	236.89	10.8	0	0	18
235	21:41:00	2.652	0.046	236.64	11.8	0	0	17
236	21:42:00	3.392	0	236.58	14.2	0	1	17
237	21:43:00	3.398	0	236.83	14.2	0	2	17
238	21:44:00	3.424	0.046	237.75	14.4	0	1	17
239	21:45:00	1.86	0.066	239.69	8.4	0	2	18
240	21:46:00	3.25	0.082	238.95	13.8	0	1	17
241	21:47:00	3.502	0.172	236.46	14.8	0	1	18
242	21:48:00	3.484	0.17	235.98	14.6	0	2	17
243	21:49:00	3.478	0.168	235.85	14.6	0	1	17
244	21:50:00	1.696	0.194	238.19	7.6	0	2	17
245	21:51:00	3.494	0.17	236.28	14.8	0	1	17
246	21:52:00	3.482	0.17	236.4	14.6	0	1	17
247	21:53:00	3.48	0.17	236.46	14.6	0	2	17
248	21:54:00	3.474	0.168	236.28	14.6	0	1	17
249	21:55:00	2.308	0.184	237.33	10.6	0	1	18
250	21:56:00	2.926	0.178	237.09	12.8	0	2	17
251	21:57:00	3.472	0.17	236.39	14.6	0	1	17
252	21:58:00	3.48	0.17	236.75	14.6	0	1	17
253	21:59:00	3.454	0.168	235.73	14.6	0	2	17
254	22:00:00	3.464	0.17	236.03	14.6	0	1	17
255	22:01:00	1.786	0.096	237.68	8.2	0	1	18
256	22:02:00	3.182	0	235.99	13.6	0	1	17
257	22:03:00	3.378	0	236.26	14.2	0	2	17
258	22:04:00	3.372	0	236.03	14.2	0	1	17
259	22:05:00	3.362	0	235.7	14.2	0	1	17
260	22:06:00	3.112	0	236.08	13.4	0	1	17
261	22:07:00	1.614	0.056	237.31	7.4	0	0	17
262	22:08:00	3.358	0	236.14	14.2	0	0	17
263	22:09:00	3.388	0	236.61	14.2	0	0	17
264	22:10:00	3.392	0	236.93	14.2	0	0	17
265	22:11:00	2.81	0	237.97	12.4	0	0	18
266	22:12:00	2.18	0	238.02	10	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
267	22:13:00	3.37	0	236.06	14.2	0	0	17
268	22:14:00	3.326	0	234.45	14	0	0	17
269	22:15:00	2.778	0	235.31	12	0	0	9
270	22:16:00	2.358	0	237.1	9.8	0	0	0
271	22:17:00	0.96	0.054	238.68	5.6	0	0	0
272	22:18:00	1.606	0	238.76	7.8	0	0	0
273	22:19:00	2.35	0	238.59	9.8	0	0	0
274	22:20:00	2.428	0.068	238.87	10	0	0	0
275	22:21:00	2.078	0.072	238.97	9.2	0	0	0
276	22:22:00	0.78	0.09	239.93	4.6	0	0	0
277	22:23:00	2.426	0.068	239.05	10	0	0	0
278	22:24:00	2.412	0.066	238.46	10	0	0	0
279	22:25:00	2.428	0.07	239.68	10	0	0	0
280	22:26:00	1.53	0.084	240.72	7.6	0	0	0
281	22:27:00	1.388	0.086	240.87	7.2	0	0	0
282	22:28:00	2.424	0.07	239.71	10	0	0	0
283	22:29:00	2.428	0.072	239.89	10	0	0	0
284	22:30:00	2.388	0.07	239.48	10	0	0	0
285	22:31:00	0.376	0.1	241.64	1.6	0	0	0
286	22:32:00	2.202	0.074	240.07	9.6	0	0	0
287	22:33:00	2.43	0.07	239.77	10	0	0	0
288	22:34:00	2.346	0.052	240.05	9.6	0	0	0
289	22:35:00	1.916	0.054	239.75	8.6	0	0	0
290	22:36:00	0.384	0	240.58	2.4	0	0	0
291	22:37:00	2.334	0.06	239.2	9.6	0	0	0
292	22:38:00	2.32	0.06	238.84	9.6	0	0	0
293	22:39:00	2.306	0.062	238.39	9.6	0	0	0
294	22:40:00	2.306	0.064	238.39	9.6	0	0	0
295	22:41:00	0.436	0	241.06	2.8	0	0	0
296	22:42:00	1.584	0.05	240.89	7.8	0	0	0
297	22:43:00	2.328	0.062	239.46	9.6	0	0	0
298	22:44:00	2.326	0.062	239.27	9.6	0	0	0
299	22:45:00	2.334	0.06	239.57	9.6	0	0	0
300	22:46:00	1.846	0.054	239.99	8.4	0	0	0
301	22:47:00	0.284	0	242.04	1.2	0	0	0
302	22:48:00	2.342	0.06	239.89	9.8	0	0	0
303	22:49:00	2.392	0	239.91	10	0	0	0
304	22:50:00	2.414	0	240.02	10	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
305	22:51:00	2.414	0	239.97	10	0	0	0
306	22:52:00	0.754	0.086	241.27	4.4	0	0	0
307	22:53:00	1.42	0.178	238.64	7.4	0	0	0
308	22:54:00	2.468	0.162	237.47	10.4	0	0	0
309	22:55:00	2.474	0.164	238.05	10.4	0	0	0
310	22:56:00	2.488	0.168	239.03	10.4	0	0	0
311	22:57:00	1.81	0.182	240.28	8.6	0	0	0
312	22:58:00	0.674	0.2	241.36	4	0	0	0
313	22:59:00	2.444	0.094	239.42	10.2	0	0	0
314	23:00:00	2.41	0.068	238.9	10	0	0	0
315	23:01:00	2.412	0.07	239.13	10	0	0	0
316	23:02:00	2.206	0.072	239.37	9.4	0	0	0
317	23:03:00	0.37	0.1	241.58	1.6	0	0	0
318	23:04:00	2.104	0.076	240.11	9.2	0	0	0
319	23:05:00	2.404	0.068	238.73	10	0	0	0
320	23:06:00	2.418	0.07	239.52	10	0	0	0
321	23:07:00	2.342	0	239.74	9.6	0	0	0
322	23:08:00	1.262	0.046	240.96	6.8	0	0	0
323	23:09:00	0.852	0	241.64	5.2	0	0	0
324	23:10:00	2.34	0.06	240.05	9.6	0	0	0
325	23:11:00	2.336	0.06	240.07	9.6	0	0	0
326	23:12:00	2.334	0.06	239.99	9.6	0	0	0
327	23:13:00	2.33	0.06	239.74	9.6	0	0	0
328	23:14:00	1.038	0	241.17	6	0	0	0
329	23:15:00	0.386	0	242.39	2.4	0	0	0
330	23:16:00	2.35	0.06	240.41	9.6	0	0	0
331	23:17:00	2.346	0.06	240.5	9.6	0	0	0
332	23:18:00	2.346	0.06	240.55	9.6	0	0	0
333	23:19:00	1.834	0.052	240.97	8.4	0	0	0
334	23:20:00	1.222	0.046	241.58	6.6	0	0	0
335	23:21:00	2.342	0.06	240.21	9.6	0	0	0
336	23:22:00	2.334	0.06	239.98	9.6	0	0	0
337	23:23:00	1.666	0.052	240.65	8	0	0	0
338	23:24:00	1.198	0	241.68	6.6	0	0	0
339	23:25:00	2.35	0.058	240.7	9.6	0	0	0
340	23:26:00	2.398	0	240.7	9.8	0	0	0
341	23:27:00	2.444	0.072	240.11	10.2	0	0	0
342	23:28:00	0.406	0.098	241.71	2	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
343	23:29:00	2.434	0.072	240.13	10	0	0	0
344	23:30:00	2.502	0.136	240.24	10.4	0	0	0
345	23:31:00	2.518	0.176	240.53	10.4	0	0	0
346	23:32:00	1.516	0.19	241.36	7.6	0	0	0
347	23:33:00	1.498	0.188	241.02	7.6	0	0	0
348	23:34:00	2.508	0.174	240.06	10.4	0	0	0
349	23:35:00	2.504	0.174	240.09	10.4	0	0	0
350	23:36:00	2.492	0.172	239.49	10.4	0	0	0
351	23:37:00	0.814	0.204	242.16	4.8	0	0	0
352	23:38:00	2.304	0.18	240.95	9.8	0	0	0
353	23:39:00	2.53	0.182	241.74	10.4	0	0	0
354	23:40:00	2.378	0	241.18	9.8	0	0	0
355	23:41:00	0.384	0	243.73	2.4	0	0	0
356	23:42:00	2.37	0.058	241.48	9.8	0	0	0
357	23:43:00	2.358	0.058	241.13	9.6	0	0	0
358	23:44:00	2.352	0.058	240.96	9.6	0	0	0
359	23:45:00	0.416	0	242.94	2.4	0	0	0
360	23:46:00	2.654	0.062	240.74	11	0	0	0
361	23:47:00	2.54	0.06	241.23	10.4	0	0	0
362	23:48:00	2.526	0.058	241.79	10.8	0	0	0
363	23:49:00	1.206	0	241.83	5.4	0	0	0
364	23:50:00	3.844	0.148	238.71	16.6	0	0	0
365	23:51:00	4.122	0.14	237.99	17.6	0	0	0
366	23:52:00	3.458	0	238.89	14.8	0	0	0
367	23:53:00	1.988	0.05	240.26	9.2	0	0	0
368	23:54:00	0.596	0	240.88	2.4	0	0	0
369	23:55:00	1.29	0	240.69	6.8	0	0	0
370	23:56:00	2.73	0.06	239.43	11.4	0	1	0
371	23:57:00	2.734	0.062	239.81	11.4	0	2	0
372	23:58:00	2.764	0.066	241.27	11.4	0	1	0
373	23:59:00	2.586	0.07	241.63	11	0	1	0
374	0:00:00	1.044	0.152	242.73	4.4	0	2	0
375	0:01:00	1.52	0.22	242.2	7.4	0	1	0
376	0:02:00	3.038	0.194	240.14	12.6	0	2	0
377	0:03:00	2.974	0.194	239.97	12.4	0	1	0
378	0:04:00	2.846	0.198	240.39	11.8	0	2	0
379	0:05:00	2.848	0.198	240.59	11.8	0	1	0
380	0:06:00	2.858	0.202	241.14	11.8	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
381	0:07:00	2.472	0.208	241.62	10.8	0	2	0
382	0:08:00	0.658	0.244	243.75	3	0	1	0
383	0:09:00	0.838	0.334	242.09	4.8	0	2	0
384	0:10:00	2.608	0.298	239.45	10.8	0	1	0
385	0:11:00	2.598	0.296	239.44	10.8	0	1	0
386	0:12:00	2.56	0.286	238.71	10.8	0	2	0
387	0:13:00	2.526	0.278	236.95	10.6	0	1	0
388	0:14:00	2.472	0.194	237.55	10.4	0	1	0
389	0:15:00	1.658	0.166	238.48	8	0	1	0
390	0:16:00	0.422	0.184	239.79	1.8	0	2	0
391	0:17:00	0.79	0.178	239.47	4.6	0	1	0
392	0:18:00	2.436	0.12	238.51	10.2	0	1	0
393	0:19:00	2.396	0.056	239.03	10	0	1	0
394	0:20:00	2.338	0	238.37	9.8	0	1	0
395	0:21:00	2.304	0.062	238.38	9.6	0	0	0
396	0:22:00	0.276	0	240.56	1.2	0	0	0
397	0:23:00	0.712	0	239.84	4.6	0	0	0
398	0:24:00	2.332	0.06	239.11	9.6	0	0	0
399	0:25:00	2.344	0.058	239.99	9.6	0	0	0
400	0:26:00	2.354	0.058	240.64	9.8	0	0	0
401	0:27:00	2.332	0.06	239.45	9.6	0	0	0
402	0:28:00	2.368	0.056	241.4	9.8	0	0	0
403	0:29:00	0.612	0	243.68	4	0	0	0
404	0:30:00	0.286	0	244.03	1.2	0	0	0
405	0:31:00	1.952	0.05	242.07	8.8	0	0	0
406	0:32:00	2.376	0.056	241.86	9.8	0	0	0
407	0:33:00	2.374	0.056	241.7	9.8	0	0	0
408	0:34:00	2.406	0	240	10	0	0	0
409	0:35:00	1.004	0.094	242	5.6	0	0	0
410	0:36:00	0.388	0.104	242.58	1.6	0	0	0
411	0:37:00	1.458	0.09	242.3	7.4	0	0	0
412	0:38:00	2.48	0.078	241.86	10.2	0	0	0
413	0:39:00	2.454	0.074	240.76	10.2	0	0	0
414	0:40:00	2.468	0.078	241.52	10.2	0	0	0
415	0:41:00	2.028	0.084	241.88	9	0	0	0
416	0:42:00	0.382	0.108	243.65	1.6	0	0	0
417	0:43:00	0.902	0.098	242.62	5.2	0	0	0
418	0:44:00	2.466	0.076	241.43	10.2	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
419	0:45:00	2.456	0.076	241.18	10.2	0	0	0
420	0:46:00	2.45	0.074	240.82	10	0	0	0
421	0:47:00	2.448	0.074	240.78	10	0	0	0
422	0:48:00	0.93	0	242.94	5.6	0	0	0
423	0:49:00	0.286	0	243.84	1.2	0	0	0
424	0:50:00	1.376	0	243.11	7.2	0	0	0
425	0:51:00	2.456	0.048	241.98	10	0	0	0
426	0:52:00	2.456	0.048	242.01	10	0	0	0
427	0:53:00	2.444	0.046	241.38	10	0	0	0
428	0:54:00	2.122	0.048	240.91	9.2	0	0	0
429	0:55:00	0.356	0.07	242.13	1.4	0	0	0
430	0:56:00	0.952	0.062	241.5	5.6	0	0	0
431	0:57:00	2.426	0	240.45	10	0	0	0
432	0:58:00	2.42	0	240.35	10	0	0	0
433	0:59:00	2.412	0	240.65	10	0	0	0
434	1:00:00	1.008	0	242.35	5.4	0	0	0
435	1:01:00	0.43	0	243.4	1.8	0	0	0
436	1:02:00	2.676	0.088	240.69	11.4	0	0	0
437	1:03:00	3.766	0.208	239.13	15.6	0	0	0
438	1:04:00	4.582	0.258	238.08	19.6	0	13	0
439	1:05:00	5.282	0.15	237.38	22.4	0	35	0
440	1:06:00	2.362	0.096	241.35	10.4	0	28	0
441	1:07:00	3.25	0.084	240.95	13.6	0	37	0
442	1:08:00	4.618	0.104	239.61	19.6	0	27	0
443	1:09:00	5.242	0.178	239.49	21.8	0	37	0
444	1:10:00	4.86	0.198	239.65	20.2	0	36	0
445	1:11:00	3.738	0.238	240.39	16	0	36	0
446	1:12:00	3.426	0.256	240.31	14.4	0	37	0
447	1:13:00	5.254	0.214	238.15	22	0	35	0
448	1:14:00	5.246	0.23	237.91	22	0	36	0
449	1:15:00	5.216	0.21	237.44	22	0	36	0
450	1:16:00	3.858	0.24	238.52	16.6	0	36	0
451	1:17:00	2.822	0.188	239.55	11.8	0	36	0
452	1:18:00	3.84	0.164	238.27	16.6	0	35	0
453	1:19:00	4.636	0.14	237.37	19.4	0	36	0
454	1:20:00	4.634	0.152	237.17	19.4	0	35	0
455	1:21:00	4.652	0.142	237.92	19.4	0	36	0
456	1:22:00	3.13	0.13	239.82	14.6	0	26	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
457	1:23:00	1.756	0.05	241.18	7.6	0	24	0
458	1:24:00	3.478	0	239.84	15	0	36	0
459	1:25:00	4.5	0	239.04	18.8	0	36	0
460	1:26:00	3.552	0	240.29	14.8	0	21	0
461	1:27:00	3.94	0	239.19	16.6	0	28	0
462	1:28:00	2.44	0	240.8	10	0	37	0
463	1:29:00	2.08	0	241.61	9	0	28	0
464	1:30:00	3.652	0	240.11	15.2	0	22	0
465	1:31:00	4.432	0	239.35	18.4	0	36	0
466	1:32:00	4.46	0	240.08	18.6	0	36	0
467	1:33:00	2.186	0.124	242.07	10	0	17	0
468	1:34:00	2.358	0.124	241.54	9.8	0	33	0
469	1:35:00	3.954	0.098	239.84	16.8	0	36	0
470	1:36:00	3.746	0.106	240.36	15.6	0	25	0
471	1:37:00	3.944	0.098	239.79	16.6	0	25	0
472	1:38:00	3.68	0.102	239.55	15.8	0	36	0
473	1:39:00	1.67	0.13	242.21	7.2	0	24	0
474	1:40:00	3.214	0.118	241.92	14.6	0	26	0
475	1:41:00	4.5	0	240.42	18.6	0	36	0
476	1:42:00	3.8	0	241.78	15.8	0	26	0
477	1:43:00	2.664	0	243.31	11.2	0	23	0
478	1:44:00	2.528	0.122	242.92	10.4	0	37	0
479	1:45:00	2.668	0.14	241.8	11.6	0	18	0
480	1:46:00	4.256	0.184	240.29	17.8	0	30	0
481	1:47:00	4.126	0.244	240.61	17.6	0	28	0
482	1:48:00	3.216	0.27	242.14	15	0	31	0
483	1:49:00	0.574	0.302	243.88	2.6	0	5	0
484	1:50:00	2.344	0.272	241.49	10.8	0	16	0
485	1:51:00	3.804	0.244	240.34	16.2	0	23	0
486	1:52:00	4.622	0.24	239.59	19.2	0	37	0
487	1:53:00	3.218	0.25	240.38	13.8	0	16	0
488	1:54:00	0.774	0.294	242.43	4.2	0	5	0
489	1:55:00	0.572	0.3	243.55	2.6	0	5	0
490	1:56:00	1.952	0.282	242.33	9	0	5	0
491	1:57:00	2.608	0.188	241.86	10.8	0	4	0
492	1:58:00	2.6	0.134	242.14	10.6	0	5	0
493	1:59:00	2.568	0.132	241.97	10.6	0	5	0
494	2:00:00	1.334	0.148	242.14	7	0	5	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
495	2:01:00	0.362	0.124	244.33	1.6	0	3	0
496	2:02:00	1.238	0.1	245.86	6.6	0	1	0
497	2:03:00	2.448	0.088	244.84	10	0	2	0
498	2:04:00	2.426	0.082	244.83	9.8	0	1	0
499	2:05:00	1.794	0.098	245.8	8.4	0	2	0
500	2:06:00	0.288	0.118	247.65	1.2	0	1	0
501	2:07:00	0.608	0.12	247.49	3.8	0	1	0
502	2:08:00	2.426	0.082	244.73	9.8	0	2	0
503	2:09:00	2.442	0.088	244.9	10	0	1	0
504	2:10:00	2.428	0.084	244.77	9.8	0	1	0
505	2:11:00	0.674	0.116	247.47	4.4	0	2	0
506	2:12:00	0.306	0.128	248.48	1.4	0	1	0
507	2:13:00	2.09	0.094	247.01	9	0	2	0
508	2:14:00	2.508	0.134	246.12	10.2	0	1	0
509	2:15:00	2.228	0.126	246.32	9.4	0	1	0
510	2:16:00	0.308	0.108	248.01	1.4	0	0	0
511	2:17:00	0.29	0.102	248.2	1.2	0	0	0
512	2:18:00	2.442	0.072	245.61	10	0	1	0
513	2:19:00	2.514	0.156	245.29	10.2	0	0	0
514	2:20:00	2.506	0.202	243.75	10.2	0	0	0
515	2:21:00	0.388	0.234	246.17	1.8	0	0	0
516	2:22:00	0.538	0.242	246.94	3.2	0	0	0
517	2:23:00	2.496	0.142	245.35	10.2	0	0	0
518	2:24:00	2.47	0.1	244.97	10	0	1	0
519	2:25:00	2.448	0.096	244.97	10	0	0	0
520	2:26:00	0.82	0.126	246.17	5	0	0	0
521	2:27:00	0.308	0.13	247.3	1.4	0	0	0
522	2:28:00	2.45	0.102	244.96	10	0	0	0
523	2:29:00	2.432	0.092	244.2	9.8	0	0	0
524	2:30:00	2.444	0.098	243.93	10	0	0	0
525	2:31:00	1.97	0.1	244.35	8.8	0	0	0
526	2:32:00	0.256	0	246.64	1.2	0	1	0
527	2:33:00	0.508	0	246.7	3.6	0	0	0
528	2:34:00	2.37	0	244.7	9.6	0	0	0
529	2:35:00	2.352	0	245.05	9.6	0	0	0
530	2:36:00	2.14	0	246.52	9	0	0	0
531	2:37:00	0.212	0	248.94	0.8	0	0	0
532	2:38:00	0.992	0	247.33	5.8	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
533	2:39:00	2.362	0	245.39	9.6	0	0	0
534	2:40:00	2.384	0	245.71	9.6	0	0	0
535	2:41:00	1.928	0	246.1	8.4	0	0	0
536	2:42:00	0.218	0	249.37	1	0	0	0
537	2:43:00	0.656	0	249.07	4.4	0	1	0
538	2:44:00	2.398	0	247.31	9.6	0	0	0
539	2:45:00	2.412	0	247.26	9.6	0	0	0
540	2:46:00	1.672	0	245.95	7.8	0	0	0
541	2:47:00	0.226	0	246.16	1	0	0	0
542	2:48:00	1.632	0	244.51	7.8	0	0	0
543	2:49:00	2.352	0	243.91	9.6	0	1	0
544	2:50:00	2.328	0.046	243.68	9.4	0	0	0
545	2:51:00	0.732	0	244.57	4.6	0	0	0
546	2:52:00	0.206	0	245.98	0.8	0	0	0
547	2:53:00	2.332	0	244.32	9.6	0	0	0
548	2:54:00	2.39	0	244.51	9.8	0	0	0
549	2:55:00	2.476	0.1	244.84	10	0	1	0
550	2:56:00	0.604	0.126	247.15	3.8	0	0	0
551	2:57:00	0.38	0.178	246.59	1.8	0	0	0
552	2:58:00	1.774	0.21	244.52	8.4	0	0	0
553	2:59:00	2.52	0.202	243.43	10.4	0	0	0
554	3:00:00	2.542	0.214	244.06	10.4	0	0	0
555	3:01:00	2.228	0.294	245.05	9.8	0	4	0
556	3:02:00	0.59	0.316	247.12	2.6	0	4	0
557	3:03:00	1.354	0.316	246.86	7	0	3	0
558	3:04:00	2.734	0.28	245.41	11.2	0	4	0
559	3:05:00	2.734	0.288	245.27	11.2	0	3	0
560	3:06:00	2.002	0.214	245.79	9	0	4	0
561	3:07:00	0.472	0.144	247.11	2	0	3	0
562	3:08:00	0.876	0	244.7	5	0	4	0
563	3:09:00	2.324	0.046	243.24	9.4	0	0	0
564	3:10:00	2.342	0	243.46	9.6	0	0	0
565	3:11:00	2.326	0.046	243.57	9.4	0	0	0
566	3:12:00	0.302	0	246.19	2	0	0	0
567	3:13:00	0.208	0	247.17	0.8	0	0	0
568	3:14:00	2.022	0	245.69	8.8	0	0	0
569	3:15:00	2.356	0	245.08	9.6	0	0	0
570	3:16:00	2.346	0	243.7	9.6	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
571	3:17:00	2.24	0	243.92	9.2	0	0	0
572	3:18:00	0.224	0	245.54	1	0	0	0
573	3:19:00	0.424	0	244.88	3.2	0	0	0
574	3:20:00	2.344	0	243.27	9.6	0	0	0
575	3:21:00	2.308	0.048	242.65	9.4	0	0	0
576	3:22:00	2.338	0	243.29	9.6	0	1	0
577	3:23:00	1.48	0	243.73	7.4	0	0	0
578	3:24:00	0.222	0	245.29	1	0	0	0
579	3:25:00	0.82	0	245.38	5.2	0	0	0
580	3:26:00	2.352	0	243.84	9.6	0	0	0
581	3:27:00	2.312	0.048	242.8	9.4	0	0	0
582	3:28:00	2.324	0	242.52	9.6	0	1	0
583	3:29:00	0.232	0	244.9	1.4	0	0	0
584	3:30:00	0.342	0.12	244.81	1.6	0	0	0
585	3:31:00	1.94	0.098	243.8	8.8	0	0	0
586	3:32:00	2.456	0.098	244.03	10	0	0	0
587	3:33:00	2.448	0.096	244.73	10	0	0	0
588	3:34:00	1.838	0.108	244.66	8.4	0	1	0
589	3:35:00	0.32	0.13	246.4	1.4	0	0	0
590	3:36:00	1.154	0.116	245.5	6.4	0	0	0
591	3:37:00	2.442	0.096	243.49	10	0	0	0
592	3:38:00	2.41	0.09	243.08	9.8	0	0	0
593	3:39:00	2.282	0.096	243.17	9.6	0	0	0
594	3:40:00	0.32	0.126	244.44	1.6	0	0	0
595	3:41:00	0.812	0.224	244.05	4.8	0	1	0
596	3:42:00	2.446	0.138	242.72	10	0	0	0
597	3:43:00	2.426	0.066	243.81	9.8	0	0	0
598	3:44:00	2.41	0.062	244.12	9.8	0	0	0
599	3:45:00	0.436	0.096	245.64	2.8	0	0	0
600	3:46:00	0.492	0.088	245.18	3.2	0	0	0
601	3:47:00	2.424	0.064	243.7	9.8	0	1	0
602	3:48:00	2.392	0.058	243.41	9.8	0	0	0
603	3:49:00	2.382	0	243.42	9.8	0	0	0
604	3:50:00	0.754	0	245.53	4.8	0	0	0
605	3:51:00	0.412	0	246.54	3	0	0	0
606	3:52:00	2.354	0	244.63	9.6	0	0	0
607	3:53:00	2.412	0	244.59	9.8	0	1	0
608	3:54:00	2.426	0.082	244.42	9.8	0	2	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
609	3:55:00	1.384	0.1	244.64	7.2	0	2	0
610	3:56:00	0.292	0.11	245.31	1.2	0	1	0
611	3:57:00	1.33	0.098	243.78	7	0	2	0
612	3:58:00	2.396	0.076	242.57	9.8	0	1	0
613	3:59:00	2.422	0.082	243.16	9.8	0	2	0
614	4:00:00	2.402	0.076	243.18	9.8	0	1	0
615	4:01:00	0.43	0.112	245.02	2.6	0	2	0
616	4:02:00	0.666	0.104	244.9	4.2	0	2	0
617	4:03:00	2.42	0.08	242.77	9.8	0	1	0
618	4:04:00	2.39	0.074	242.47	9.8	0	2	0
619	4:05:00	2.446	0.12	242.14	10	0	1	0
620	4:06:00	0.978	0.248	245.15	5.6	0	2	0
621	4:07:00	0.4	0.254	245.86	1.8	0	1	0
622	4:08:00	2.432	0.222	243.47	10.2	0	2	0
623	4:09:00	2.5	0.214	243.36	10.2	0	1	0
624	4:10:00	2.52	0.22	243.54	10.4	0	2	0
625	4:11:00	0.788	0.246	245.68	4.8	0	1	0
626	4:12:00	0.402	0.256	245.69	2	0	2	0
627	4:13:00	2.238	0.216	243.21	9.6	0	1	0
628	4:14:00	2.512	0.22	243.49	10.2	0	2	0
629	4:15:00	2.486	0.212	243.2	10.2	0	1	0
630	4:16:00	1.936	0.23	244.12	8.8	0	1	0
631	4:17:00	0.376	0.256	246.45	1.8	0	2	0
632	4:18:00	0.908	0.078	245.71	5.2	0	1	0
633	4:19:00	2.336	0.046	243.86	9.4	0	0	0
634	4:20:00	2.346	0	243.5	9.6	0	0	0
635	4:21:00	2.328	0.046	243.62	9.4	0	0	0
636	4:22:00	1.708	0	243.73	8	0	0	0
637	4:23:00	0.206	0	245.17	0.8	0	0	0
638	4:24:00	0.516	0	245.13	3.6	0	1	0
639	4:25:00	2.426	0.06	243.67	9.8	0	0	0
640	4:26:00	2.43	0.066	244	9.8	0	0	0
641	4:27:00	2.424	0.06	243.6	9.8	0	0	0
642	4:28:00	2.306	0.064	242.93	9.6	0	0	0
643	4:29:00	0.288	0.088	245.08	1.2	0	0	0
644	4:30:00	0.756	0.092	245.69	3.8	0	0	5
645	4:31:00	3.498	0.05	242.83	14.4	0	0	19
646	4:32:00	3.522	0.054	242.92	14.4	0	1	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
647	4:33:00	3.46	0	243.03	14.2	0	0	19
648	4:34:00	3.434	0.05	242.95	14	0	0	18
649	4:35:00	1.646	0	245.6	7.4	0	0	19
650	4:36:00	1.336	0	245.94	5.4	0	0	18
651	4:37:00	2.874	0	244.16	12.4	0	1	18
652	4:38:00	3.41	0.056	243.04	14	0	0	19
653	4:39:00	3.412	0.052	242.49	14	0	0	18
654	4:40:00	3.386	0.056	242.22	13.8	0	0	18
655	4:41:00	1.844	0.048	244.07	8.2	0	0	18
656	4:42:00	1.414	0.106	244.55	5.8	0	0	18
657	4:43:00	3.352	0.086	242.89	14	0	1	18
658	4:44:00	3.5	0.08	242.65	14.4	0	0	18
659	4:45:00	3.516	0.084	242.63	14.4	0	0	18
660	4:46:00	3.174	0.084	243.15	13.4	0	0	18
661	4:47:00	1.428	0.114	245.1	5.8	0	0	19
662	4:48:00	1.994	0.1	244.15	9	0	0	18
663	4:49:00	3.492	0.082	241.83	14.4	0	1	18
664	4:50:00	3.46	0.076	241.53	14.2	0	0	18
665	4:51:00	3.492	0.082	242.06	14.4	0	0	18
666	4:52:00	3.482	0.08	242.39	14.2	0	0	18
667	4:53:00	1.492	0.104	245.95	6.2	0	0	18
668	4:54:00	1.326	0	246.55	5.4	0	0	19
669	4:55:00	3.282	0.046	243.76	13.6	0	1	18
670	4:56:00	3.422	0.054	243.58	14	0	0	18
671	4:57:00	3.424	0.05	242.95	14	0	0	18
672	4:58:00	3.254	0.054	242.7	13.4	0	0	18
673	4:59:00	1.32	0	244.27	5.4	0	0	18
674	5:00:00	2.294	0	243.14	10.4	0	0	19
675	5:01:00	3.4	0.052	242.01	14	0	0	17
676	5:02:00	3.402	0.056	242.73	14	0	0	18
677	5:03:00	3.418	0.05	242.7	14	0	1	18
678	5:04:00	2.994	0.05	243.77	12.6	0	0	19
679	5:05:00	1.326	0	244.66	5.4	0	0	18
680	5:06:00	2.02	0	243.62	9.2	0	0	18
681	5:07:00	3.378	0.056	241.41	14	0	0	18
682	5:08:00	3.372	0.054	240.91	14	0	1	18
683	5:09:00	3.374	0.046	240.82	14	0	0	17
684	5:10:00	3.426	0.046	240.23	14.2	0	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
685	5:11:00	1.462	0.066	242.12	6.2	0	0	18
686	5:12:00	1.834	0.07	242.93	8.4	0	0	18
687	5:13:00	3.462	0.046	242.13	14.2	0	0	18
688	5:14:00	3.486	0.054	242.49	14.2	0	1	18
689	5:15:00	2.91	0.056	243.69	12	0	0	9
690	5:16:00	0.936	0.09	245.93	5.4	0	0	0
691	5:17:00	0.338	0.152	246.45	1.6	0	0	0
692	5:18:00	1.926	0.136	244.33	8.8	0	0	0
693	5:19:00	2.42	0.088	242.87	9.8	0	0	0
694	5:20:00	2.438	0.094	243.06	10	0	1	0
695	5:21:00	2.43	0.092	243.67	9.8	0	0	0
696	5:22:00	2.454	0.098	244.05	10	0	0	0
697	5:23:00	0.424	0.126	246.26	2.6	0	0	0
698	5:24:00	0.716	0.128	246.23	4.4	0	0	0
699	5:25:00	2.462	0.098	245.16	10	0	0	0
700	5:26:00	2.46	0.1	244.25	10	0	1	0
701	5:27:00	2.418	0.09	243.19	9.8	0	0	0
702	5:28:00	1	0.112	243.77	5.8	0	0	0
703	5:29:00	0.298	0.118	244.73	1.2	0	0	0
704	5:30:00	1.65	0	243.03	7.8	0	0	0
705	5:31:00	2.31	0.048	242.67	9.4	0	0	0
706	5:32:00	2.332	0	242.87	9.6	0	1	0
707	5:33:00	2.242	0.046	243.03	9.2	0	0	0
708	5:34:00	0.224	0	244.96	1	0	0	0
709	5:35:00	0.752	0	244.5	4.8	0	0	0
710	5:36:00	2.33	0	242.56	9.6	0	0	0
711	5:37:00	2.322	0	242.61	9.4	0	0	0
712	5:38:00	2.312	0.048	242.19	9.4	0	0	0
713	5:39:00	0.76	0	243.74	4.8	0	1	0
714	5:40:00	0.364	0	244.4	2.6	0	0	0
715	5:41:00	2.336	0	242.39	9.6	0	0	0
716	5:42:00	2.312	0.048	242.51	9.4	0	0	0
717	5:43:00	2.332	0	242.61	9.6	0	0	0
718	5:44:00	0.856	0	243.82	5.2	0	0	0
719	5:45:00	0.864	0	243.55	5.4	0	1	0
720	5:46:00	2.302	0.05	242.22	9.4	0	0	0
721	5:47:00	2.324	0	242.6	9.6	0	0	0
722	5:48:00	1.852	0	243.74	8.4	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
723	5:49:00	0.226	0	247.08	1	0	0	0
724	5:50:00	2.184	0	244.99	9.2	0	0	0
725	5:51:00	2.38	0	245.62	9.6	0	1	0
726	5:52:00	1.92	0	245.71	8.6	0	0	0
727	5:53:00	0.254	0	246.97	1.2	0	0	0
728	5:54:00	2.164	0.098	244.63	9.2	0	0	0
729	5:55:00	2.554	0.188	244.72	10.4	0	0	0
730	5:56:00	2.026	0.212	245.14	9	0	0	0
731	5:57:00	0.414	0.244	246.58	2	0	1	0
732	5:58:00	2.106	0.206	244.28	9.2	0	0	0
733	5:59:00	2.522	0.202	243.58	10.4	0	0	0
734	6:00:00	2.076	0.206	244.36	9.2	0	0	0
735	6:01:00	0.402	0.238	245.77	1.8	0	0	0
736	6:02:00	2.118	0.204	243.95	9.2	0	0	0
737	6:03:00	2.486	0.176	243.01	10.2	0	1	0
738	6:04:00	1.34	0.2	245.34	7	0	1	0
739	6:05:00	0.666	0.258	246	4	0	1	0
740	6:06:00	2.44	0.11	243.7	10	0	2	0
741	6:07:00	2.426	0.082	243.53	9.8	0	2	0
742	6:08:00	1.278	0.096	243.92	6.8	0	1	0
743	6:09:00	0.43	0.106	244.99	2.8	0	2	0
744	6:10:00	2.426	0.08	243.06	10	0	1	0
745	6:11:00	2.382	0.072	241.95	9.8	0	2	0
746	6:12:00	2.406	0.078	242.35	9.8	0	2	0
747	6:13:00	0.33	0.106	244.82	1.8	0	1	0
748	6:14:00	1.208	0.098	243.99	6.6	0	2	0
749	6:15:00	2.406	0.076	242.91	9.8	0	1	0
750	6:16:00	2.442	0.086	242.84	10	0	2	0
751	6:17:00	2.426	0.082	243.09	10	0	1	0
752	6:18:00	2.432	0.084	242.41	10	0	2	0
753	6:19:00	2.414	0.08	242.63	9.8	0	1	0
754	6:20:00	0.484	0.116	244.86	2.4	0	2	0
755	6:21:00	0.312	0.112	245.05	1.4	0	1	0
756	6:22:00	2.352	0.088	243.36	9.8	0	2	0
757	6:23:00	2.428	0.084	243.66	9.8	0	1	0
758	6:24:00	2.582	0.092	244.02	10.6	0	2	0
759	6:25:00	2.784	0.086	243.85	11.4	0	1	0
760	6:26:00	2.68	0.09	243.73	11	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
761	6:27:00	1.42	0.098	244.93	7	0	2	0
762	6:28:00	0.908	0.088	244.83	3.8	0	1	0
763	6:29:00	3.194	0.048	242.05	13.2	0	0	0
764	6:30:00	3.328	0.094	241.89	13.6	0	0	0
765	6:31:00	2.67	0.094	242.62	11.6	0	0	0
766	6:32:00	1.238	0.124	244.76	5	0	1	0
767	6:33:00	1.12	0.116	244.4	4.6	0	0	0
768	6:34:00	0.592	0.128	245.39	2.6	0	0	0
769	6:35:00	0.8	0.122	245.94	3.2	0	0	0
770	6:36:00	0.82	0.126	245.84	3.4	0	0	0
771	6:37:00	0.796	0.116	244.5	3.2	0	0	0
772	6:38:00	0.798	0.116	244.02	3.2	0	1	0
773	6:39:00	0.694	0.12	244.13	2.8	0	0	0
774	6:40:00	0.694	0.136	244.35	3	0	0	0
775	6:41:00	0.758	0.228	244.3	3.2	0	0	0
776	6:42:00	0.682	0.14	244.14	2.8	0	0	0
777	6:43:00	0.664	0.09	244.49	2.6	0	1	0
778	6:44:00	0.642	0.084	244.14	2.6	0	0	0
779	6:45:00	0.66	0.088	243.94	2.6	0	0	0
780	6:46:00	0.636	0.082	243.58	2.6	0	0	0
781	6:47:00	0.66	0.09	244.64	2.6	0	0	0
782	6:48:00	0.638	0.084	244.26	2.6	0	0	0
783	6:49:00	0.478	0.092	244.46	2	0	1	0
784	6:50:00	0.316	0	245.54	1.2	0	0	0
785	6:51:00	0.33	0	246.01	1.4	0	0	0
786	6:52:00	0.38	0	245.94	1.6	0	0	0
787	6:53:00	0.522	0	245.22	2.2	0	0	0
788	6:54:00	0.422	0	244.45	1.8	0	0	0
789	6:55:00	0.262	0	243.96	1.2	0	1	0
790	6:56:00	0.22	0	243.39	1	0	0	0
791	6:57:00	0.246	0	244.35	1	0	0	0
792	6:58:00	0.212	0	244.26	0.8	0	0	0
793	6:59:00	0.242	0	244.62	1	0	0	0
794	7:00:00	0.222	0	244.67	1	0	0	0
795	7:01:00	0.24	0	244.23	1	0	1	0
796	7:02:00	0.216	0	244.87	1	0	0	0
797	7:03:00	0.228	0	243.64	1	0	0	0
798	7:04:00	0.21	0	242.49	0.8	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
799	7:05:00	0.276	0	242.25	1.4	0	0	0
800	7:06:00	0.322	0.104	242.08	1.4	0	0	0
801	7:07:00	0.336	0.108	241.89	1.4	0	0	0
802	7:08:00	0.318	0.108	242.08	1.4	0	0	0
803	7:09:00	0.314	0.11	242.57	1.4	0	1	0
804	7:10:00	0.328	0.114	243.04	1.4	0	0	0
805	7:11:00	0.308	0.108	242.59	1.4	0	0	0
806	7:12:00	0.326	0.112	242.55	1.4	0	0	0
807	7:13:00	0.304	0.108	242.8	1.4	0	0	0
808	7:14:00	2.206	0.086	240.97	9.4	0	1	0
809	7:15:00	2.338	0.072	239.16	9.6	0	0	0
810	7:16:00	2.362	0.076	239.21	9.8	0	0	0
811	7:17:00	2.356	0.074	239.79	9.8	0	0	0
812	7:18:00	2.324	0	239.78	9.6	0	0	0
813	7:19:00	2.264	0.056	239.92	9.4	0	0	0
814	7:20:00	2.28	0.052	240.03	9.4	0	1	0
815	7:21:00	2.258	0.056	239.9	9.4	0	0	0
816	7:22:00	2.306	0.048	241.23	9.4	0	0	0
817	7:23:00	2.288	0.054	241.35	9.4	0	0	0
818	7:24:00	2.3	0.048	241.01	9.4	0	0	0
819	7:25:00	2.346	0	241.57	9.6	0	0	0
820	7:26:00	2.378	0.054	241.27	9.8	0	1	0
821	7:27:00	2.346	0.048	240.92	9.6	0	0	0
822	7:28:00	2.35	0.05	240.04	9.8	0	0	0
823	7:29:00	2.326	0	239.39	9.6	0	0	0
824	7:30:00	2.336	0.048	238.93	9.6	0	0	0
825	7:31:00	2.326	0	239.46	9.6	0	0	0
826	7:32:00	0.504	0.08	242.27	3.2	0	1	0
827	7:33:00	0.268	0.076	242.22	1.2	0	0	0
828	7:34:00	1.734	0	242.55	8	0	0	0
829	7:35:00	2.318	0.05	242.88	9.4	0	0	0
830	7:36:00	2.322	0.046	242.18	9.6	0	0	0
831	7:37:00	2.302	0.052	242.16	9.4	0	0	0
832	7:38:00	2.318	0.046	241.97	9.4	0	1	0
833	7:39:00	2.302	0.05	241.71	9.4	0	0	0
834	7:40:00	2.29	0.052	241.53	9.4	0	0	0
835	7:41:00	2.376	0	241.3	9.8	0	0	0
836	7:42:00	0.368	0.114	244.31	2	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
837	7:43:00	0.332	0.124	244.83	1.4	0	0	0
838	7:44:00	1.734	0.096	243.37	8.2	0	0	0
839	7:45:00	2.416	0.088	242.04	10	0	1	0
840	7:46:00	2.4	0.084	242.24	9.8	0	0	0
841	7:47:00	2.418	0.088	242.1	10	0	0	0
842	7:48:00	2.388	0.082	241.56	9.8	0	0	0
843	7:49:00	2.406	0.086	241.57	9.8	0	0	0
844	7:50:00	2.378	0.08	241.33	9.8	0	0	0
845	7:51:00	1.164	0.108	243.28	6.4	0	1	0
846	7:52:00	0.3	0.118	244.95	1.2	0	0	0
847	7:53:00	0.7	0.12	244.83	4.4	0	0	0
848	7:54:00	2.376	0	242.85	9.8	0	0	0
849	7:55:00	2.32	0.046	242.06	9.6	0	0	0
850	7:56:00	2.278	0.054	241.04	9.4	0	0	0
851	7:57:00	2.28	0.05	240.31	9.4	0	1	0
852	7:58:00	2.278	0.054	240.95	9.4	0	0	0
853	7:59:00	2.294	0.05	240.67	9.4	0	0	0
854	8:00:00	2.28	0.056	240.9	9.4	0	0	0
855	8:01:00	2.3	0.05	240.97	9.4	0	0	0
856	8:02:00	0.21	0	243.21	1.2	0	0	0
857	8:03:00	0.216	0	243.6	1	0	1	0
858	8:04:00	2.256	0.052	241.99	9.4	0	0	0
859	8:05:00	2.312	0.048	241.62	9.4	0	0	0
860	8:06:00	2.288	0.052	241.37	9.4	0	0	0
861	8:07:00	2.308	0.048	241.44	9.4	0	0	0
862	8:08:00	2.272	0.054	240.62	9.4	0	0	0
863	8:09:00	2.354	0	241.27	9.6	0	1	0
864	8:10:00	0.616	0.084	243.88	4	0	0	0
865	8:11:00	0.282	0.082	243.68	1.2	0	0	0
866	8:12:00	1.78	0.06	241.11	8.4	0	0	0
867	8:13:00	2.348	0.048	240.67	9.6	0	0	0
868	8:14:00	2.368	0.054	241.1	9.8	0	1	0
869	8:15:00	2.362	0.052	241.84	9.6	0	0	0
870	8:16:00	2.378	0.056	241.48	9.8	0	0	0
871	8:17:00	2.43	0.134	240.97	10	0	0	0
872	8:18:00	2.512	0.256	239.37	10.4	0	2	0
873	8:19:00	0.616	0.226	241.48	3.8	0	1	0
874	8:20:00	0.398	0.234	241.86	1.8	0	2	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
875	8:21:00	1.528	0.212	241.11	7.6	0	1	0
876	8:22:00	2.484	0.208	241.06	10.2	0	2	0
877	8:23:00	2.462	0.202	241.06	10.2	0	1	0
878	8:24:00	2.502	0.214	242.36	10.2	0	2	0
879	8:25:00	2.484	0.21	242.66	10.2	0	1	0
880	8:26:00	2.486	0.212	242.06	10.2	0	2	0
881	8:27:00	2.04	0.214	242.4	9	0	2	0
882	8:28:00	0.402	0.246	244.02	2	0	1	0
883	8:29:00	0.38	0.24	243.78	1.8	0	2	0
884	8:30:00	1.876	0.196	241.39	8.6	0	1	0
885	8:31:00	2.36	0.068	241.03	9.8	0	2	0
886	8:32:00	2.364	0.07	240.69	9.8	0	1	0
887	8:33:00	2.336	0.064	240.11	9.6	0	2	0
888	8:34:00	2.352	0.068	239.68	9.8	0	1	0
889	8:35:00	2.34	0.064	240.17	9.6	0	2	0
890	8:36:00	2.36	0.07	240.34	9.8	0	1	0
891	8:37:00	0.914	0.088	242.65	5.4	0	1	0
892	8:38:00	0.29	0.104	243.51	1.2	0	2	0
893	8:39:00	1.058	0.09	243.08	6	0	1	0
894	8:40:00	2.374	0.07	241.42	9.8	0	2	0
895	8:41:00	2.388	0.076	241.94	9.8	0	1	0
896	8:42:00	2.358	0	242.68	9.6	0	1	0
897	8:43:00	2.294	0.05	241.02	9.4	0	1	0
898	8:44:00	2.278	0.054	241.32	9.4	0	0	0
899	8:45:00	2.28	0.05	240.08	9.4	0	0	0
900	8:46:00	0.268	0	241.7	1.8	0	0	0
901	8:47:00	0.222	0	242.47	1	0	0	0
902	8:48:00	1.622	0.046	241.27	7.8	0	0	0
903	8:49:00	2.296	0.048	241.03	9.4	0	1	0
904	8:50:00	2.278	0.054	241.14	9.4	0	0	0
905	8:51:00	2.296	0.05	240.7	9.4	0	0	0
906	8:52:00	2.26	0.056	239.73	9.4	0	0	0
907	8:53:00	2.94	0.218	238.57	12.4	0	0	0
908	8:54:00	2.792	0.17	238.51	11.6	0	0	0
909	8:55:00	1.158	0.248	239.96	6	0	1	0
910	8:58:00	2.984	0.334	239.27	12.4	0	1	0
911	8:59:00	2.996	0.338	238.94	12.6	0	1	0
912	9:00:00	2.94	0.31	239.09	12.2	0	1	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
913	9:01:00	3.278	0.158	239.63	14.2	0	7	0
914	9:08:00	4.762	0.088	237.44	20	0	38	0
915	9:09:00	4.506	0.088	237.25	19	0	38	0
916	9:10:00	4.472	0.088	236.34	18.8	0	37	0
917	9:11:00	3.708	0.084	236.82	16.2	0	27	0
918	9:12:00	0.724	0.054	240.88	4.6	0	2	0
919	9:13:00	1.892	0.066	239.37	9	0	26	0
920	9:14:00	2.012	0	239.17	9	0	2	0
921	9:15:00	2.372	0	238.36	9.8	0	1	0
922	9:16:00	2.386	0	238.96	10	0	0	0
923	9:17:00	2.4	0.064	238.59	10	0	1	0
924	9:18:00	2.424	0.068	238.48	10	0	2	0
925	9:19:00	1.066	0.05	240	6	0	1	0
926	9:20:00	0.38	0	240.77	1.6	0	2	0
927	9:21:00	1.632	0	239.72	7.8	0	1	0
928	9:22:00	2.41	0	239.47	10	0	1	0
929	9:23:00	2.38	0.062	239.45	9.8	0	0	0
930	9:24:00	2.402	0.06	239.23	10	0	1	0
931	9:25:00	2.438	0.066	239.37	10.2	0	1	0
932	9:26:00	2.432	0.066	239.18	10	0	1	0
933	9:27:00	1.64	0.054	239.87	8	0	2	0
934	9:28:00	0.424	0	240.71	1.8	0	2	0
935	9:29:00	1.41	0.124	239.52	7.2	0	5	0
936	9:30:00	2.722	0.136	237.51	11.4	0	5	0
937	9:31:00	2.712	0.136	237.44	11.4	0	5	0
938	9:32:00	2.706	0.134	237.39	11.4	0	5	0
939	9:33:00	2.488	0.112	237.7	10.4	0	1	0
940	9:34:00	2.424	0.072	238.73	10	0	0	0
941	9:35:00	1.258	0.184	239.79	6.8	0	0	0
942	9:36:00	0.37	0.206	240.85	1.8	0	0	0
943	9:37:00	0.786	0.202	240.73	4.8	0	0	0
944	9:38:00	2.474	0.176	238.59	10.4	0	0	0
945	9:39:00	2.474	0.176	238.58	10.4	0	0	0
946	9:40:00	2.488	0.178	239.21	10.4	0	0	0
947	9:41:00	2.486	0.178	239.29	10.4	0	0	0
948	9:42:00	2.444	0.13	238.64	10.2	0	0	0
949	9:43:00	2.272	0.048	239.04	9.6	0	0	0
950	9:44:00	0.338	0.076	241.21	1.4	0	0	0

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
951	9:45:00	0.29	0	241.1	1.4	0	0	0
952	9:46:00	1.466	0	240.92	7.4	0	0	0
953	9:47:00	2.324	0.05	239.84	9.6	0	0	0
954	9:48:00	2.32	0.052	239.14	9.6	0	0	0
955	9:49:00	2.308	0.052	238.59	9.6	0	0	0
956	9:50:00	2.314	0.054	238.76	9.6	0	0	0
957	9:51:00	2.312	0.052	239.03	9.6	0	0	0
958	9:52:00	2.306	0.052	239.26	9.6	0	0	0
959	9:53:00	0.444	0	241.82	3	0	0	0
960	9:54:00	0.268	0	242.48	1.2	0	0	0
961	9:55:00	1.846	0.046	240.12	8.4	0	0	0
962	9:56:00	2.308	0.054	238.67	9.6	0	0	0
963	9:57:00	2.29	0.056	238.04	9.6	0	0	0
964	9:58:00	2.288	0.056	238.09	9.6	0	0	0
965	9:59:00	2.296	0.054	238.13	9.6	0	0	0
966	10:00:00	2.292	0.054	238.03	9.6	0	0	0
967	10:01:00	0.37	0	240.26	2.4	0	0	0
968	10:02:00	0.472	0	240.15	2.4	0	0	0
969	10:03:00	3.054	0.06	237.55	13.4	0	0	18
970	10:04:00	3.48	0.066	235.97	14.6	0	0	18
971	10:05:00	3.572	0.046	235.65	15	0	0	17
972	10:06:00	3.56	0.058	235.44	15	0	0	18
973	10:07:00	3.528	0.056	234.71	15	0	0	17
974	10:08:00	3.49	0.05	233.52	14.8	0	0	16
975	10:09:00	2.038	0.068	235.76	9.4	0	0	17
976	10:10:00	1.406	0.078	237.13	5.8	0	0	18
977	10:11:00	2.84	0.064	236.1	12.6	0	0	17
978	10:12:00	3.388	0.06	235.99	14.2	0	0	17
979	10:13:00	3.394	0.062	236.29	14.2	0	0	17
980	10:14:00	3.36	0.06	235.94	14.2	0	0	17
981	10:15:00	1.354	0.084	238.25	5.6	0	0	18
982	10:16:00	1.334	0.082	237.88	5.6	0	0	17
983	10:17:00	1.358	0.09	238.01	5.6	0	0	17
984	10:18:00	1.37	0.118	237.93	5.8	0	0	18
985	10:19:00	1.322	0.054	237.72	5.4	0	0	17
986	10:20:00	1.304	0.05	236.92	5.4	0	0	17
987	10:21:00	1.394	0.07	238.37	5.8	0	0	17
988	10:22:00	1.702	0.082	238.37	7	0	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
989	10:23:00	2.242	0.162	237.33	10	1	7	17
990	10:24:00	3.714	0.296	235.15	15.8	2	35	17
991	10:25:00	3.212	0.304	235.99	14.2	1	26	17
992	10:26:00	3.694	0.28	235.16	15.6	1	35	17
993	10:27:00	3.204	0.292	236.08	14	1	27	17
994	10:28:00	3.676	0.268	234.85	15.6	1	35	17
995	10:29:00	3.666	0.282	234.34	15.6	2	35	17
996	10:30:00	3.678	0.204	236.01	15.6	1	35	17
997	10:31:00	3.722	0.3	236.22	15.8	1	37	17
998	10:32:00	3.716	0.28	236.39	15.6	1	36	17
999	10:33:00	3.75	0.298	236.67	15.8	1	37	17
1000	10:34:00	4.17	0.268	235.42	18	6	36	17
1001	10:50:00	2.712	0.256	234.81	11.8	2	21	16
1002	10:51:00	3.538	0.26	233.91	15	1	36	17
1003	10:52:00	3.574	0.254	235.74	15.2	1	36	17
1004	10:53:00	3.016	0.286	237.04	12.8	1	25	17
1005	10:54:00	3.002	0.224	237.17	12.8	1	26	18
1006	10:55:00	4.444	0.136	235.97	19.2	2	50	17
1007	10:57:00	4.84	0.132	235.21	20.6	1	59	16
1008	10:58:00	5.066	0.112	234.54	21.6	1	62	17
1009	11:00:00	3.65	0.22	234.55	15.6	1	40	17
1010	11:01:00	2.394	0.248	235.94	10.2	2	17	17
1011	11:02:00	3.024	0.222	234.81	13.2	1	29	17
1012	11:03:00	3.25	0.232	234.6	14.2	1	29	17
1013	11:04:00	3.378	0.16	235.39	14.4	1	34	17
1014	11:05:00	2.264	0.144	237.06	9.6	2	12	17
1015	11:06:00	3.108	0.112	235.01	13.4	1	28	17
1016	11:07:00	2.978	0.11	233.95	13.2	1	26	16
1017	11:08:00	1.966	0.118	234.51	8.6	1	12	17
1018	11:09:00	1.928	0.134	235.57	8.4	1	8	17
1019	11:10:00	2.526	0.082	234.36	11	1	20	17
1020	11:11:00	1.51	0	235.49	6.4	1	3	17
1021	11:12:00	1.572	0.064	236.83	6.6	1	4	17
1022	11:13:00	1.602	0.076	237.21	6.8	2	4	18
1023	11:14:00	1.562	0.062	236.76	6.6	1	4	17
1024	11:15:00	1.55	0	237.83	6.4	1	3	17
1025	11:16:00	1.586	0.05	237.91	6.6	1	4	17
1026	11:17:00	1.658	0.168	238.35	7	1	3	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1027	11:18:00	1.658	0.164	236.8	7	2	3	17
1028	11:19:00	1.65	0.314	234.89	7	0	1	17
1029	11:20:00	1.676	0.312	235.59	7.2	1	0	17
1030	11:21:00	2.492	0.31	234.99	11.4	12	1	17
1031	11:22:00	3.828	0.288	234.29	16.4	37	1	17
1032	11:23:00	3.822	0.262	234.72	16.2	37	0	16
1033	11:24:00	3.834	0.254	235.27	16.2	37	1	17
1034	11:25:00	3.81	0.248	235.19	16.2	37	0	17
1035	11:26:00	3.824	0.244	234.83	16.2	37	0	17
1036	11:27:00	3.838	0.226	235.06	16.2	37	0	17
1037	11:28:00	3.844	0.23	234.72	16.4	37	1	17
1038	11:29:00	3.824	0.25	234.49	16.2	37	0	17
1039	11:30:00	3.844	0.208	234.82	16.4	37	1	17
1040	11:31:00	3.88	0.146	234.73	16.4	37	2	17
1041	11:32:00	4.004	0.162	236.29	16.8	37	5	17
1042	11:33:00	3.784	0.124	235.97	16	38	0	17
1043	11:34:00	3.784	0.104	236.2	16	37	1	17
1044	11:35:00	3.792	0.104	237.09	16	37	0	17
1045	11:36:00	2.146	0.192	236.81	9.8	11	0	17
1046	11:37:00	1.608	0.208	237.06	6.8	0	0	17
1047	11:38:00	1.828	0.212	237.83	7.6	0	0	18
1048	11:39:00	1.922	0.212	237.67	8	0	0	17
1049	11:40:00	1.978	0.252	237.94	8.4	0	0	17
1050	11:41:00	1.93	0.218	238.08	8	1	0	18
1051	11:42:00	1.964	0.222	239.49	8.2	0	1	17
1052	11:43:00	1.854	0.224	240.69	7.6	0	0	18
1053	11:44:00	1.762	0.228	240.31	7.4	0	0	18
1054	11:45:00	1.738	0.218	239.63	7.2	0	0	17
1055	11:46:00	1.766	0.228	240.77	7.4	0	0	18
1056	11:47:00	1.746	0.234	240.59	7.2	0	0	18
1057	11:48:00	1.734	0.236	239.63	7.2	0	1	17
1058	11:49:00	1.738	0.252	239.29	7.2	0	0	18
1059	11:50:00	1.958	0.248	238.73	8.2	0	0	17
1060	11:51:00	1.964	0.222	239.3	8.2	0	0	18
1061	11:52:00	1.962	0.232	239.43	8.2	0	0	17
1062	11:53:00	2.05	0.348	238.99	8.6	0	1	18
1063	11:54:00	2.032	0.342	239.1	8.6	0	0	17
1064	11:55:00	2.036	0.34	238.21	8.6	0	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1065	11:56:00	1.964	0.27	238.1	8.2	0	0	17
1066	11:57:00	1.97	0.252	238.53	8.2	0	0	18
1067	11:58:00	1.946	0.246	238.36	8.2	0	0	17
1068	11:59:00	1.97	0.254	238.87	8.2	0	1	17
1069	12:00:00	1.962	0.252	239.73	8.2	0	0	18
1070	12:01:00	1.988	0.26	240.32	8.2	0	0	18
1071	12:02:00	1.972	0.258	240.63	8.2	0	0	17
1072	12:03:00	1.974	0.256	239.28	8.2	0	0	18
1073	12:04:00	1.954	0.25	239	8.2	0	0	17
1074	12:05:00	1.958	0.25	238.1	8.2	0	0	18
1075	12:06:00	2.01	0.35	236.29	8.6	0	0	17
1076	12:07:00	1.946	0.304	237.11	8.2	0	1	17
1077	12:08:00	1.928	0.294	237.56	8.2	0	0	17
1078	12:09:00	1.908	0.208	238.25	8	0	0	18
1079	12:10:00	1.708	0.118	238.16	7.2	0	0	17
1080	12:11:00	1.564	0.132	239.22	6.4	0	0	18
1081	12:12:00	1.54	0.126	238.96	6.4	0	0	17
1082	12:13:00	1.56	0.13	238.77	6.4	0	1	18
1083	12:14:00	1.584	0.124	238.7	6.6	0	0	17
1084	12:15:00	1.734	0.122	237.94	7.2	0	0	17
1085	12:16:00	1.772	0.11	238.63	7.4	0	0	18
1086	12:17:00	1.874	0.106	238.61	7.8	0	0	17
1087	12:18:00	1.74	0.11	238.48	7.2	0	0	18
1088	12:19:00	1.622	0.118	237.83	6.8	0	0	17
1089	12:20:00	1.854	0.114	238.4	7.8	0	0	17
1090	12:21:00	1.854	0.114	238.5	7.8	0	0	18
1091	12:22:00	1.906	0.148	239.11	8	0	0	17
1092	12:23:00	1.946	0.222	239.38	8	0	0	18
1093	12:26:00	2.438	0.294	237.39	10.8	0	0	18
1094	12:27:00	1.924	0.218	238.26	8	0	0	17
1095	12:28:00	1.954	0.244	238.24	8.2	0	0	17
1096	12:29:00	2.018	0.344	237.51	8.6	0	0	18
1097	12:30:00	2.014	0.346	237.63	8.6	0	0	17
1098	12:31:00	1.992	0.34	236.48	8.4	0	0	17
1099	12:32:00	1.996	0.344	237.2	8.4	0	0	17
1100	12:33:00	2.002	0.344	237.42	8.4	0	0	18
1101	12:34:00	1.964	0.292	237.15	8.4	0	0	17
1102	12:35:00	1.93	0.242	236.99	8.2	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1103	12:36:00	1.83	0.304	237.22	7.8	0	0	17
1104	12:44:00	1.702	0.36	235.93	7.2	0	1	17
1105	12:47:00	1.712	0.362	236.64	7.4	0	1	17
1106	12:49:00	1.714	0.362	236.68	7.4	0	2	17
1107	12:50:00	1.71	0.362	236.6	7.4	0	1	17
1108	12:59:00	1.704	0.36	236.31	7.2	0	1	17
1109	13:03:00	1.74	0.354	238.72	7.4	0	0	18
1110	13:04:00	1.742	0.356	238.91	7.4	0	0	17
1111	13:05:00	1.75	0.358	239.53	7.4	0	0	18
1112	13:06:00	1.736	0.354	238.56	7.4	0	0	17
1113	13:07:00	1.712	0.344	236.85	7.2	0	0	17
1114	13:08:00	1.566	0.246	237.24	6.6	0	0	18
1115	13:09:00	1.488	0.196	236.94	6.2	0	0	17
1116	13:10:00	1.494	0.198	237.5	6.2	0	0	17
1117	13:11:00	1.504	0.202	238.52	6.2	0	0	18
1118	13:12:00	1.498	0.198	237.91	6.2	0	0	17
1119	13:13:00	1.44	0.104	238.95	6	0	0	17
1120	13:14:00	1.44	0.102	239.01	6	0	0	18
1121	13:15:00	1.434	0.1	238.37	6	0	0	17
1122	13:16:00	1.446	0.104	239.46	6	0	0	18
1123	13:17:00	1.442	0.102	239.19	6	0	0	17
1124	13:18:00	1.434	0.1	238.38	6	0	0	18
1125	13:19:00	1.456	0.106	240.35	6	0	0	17
1126	13:20:00	1.462	0.108	240.48	6	0	0	18
1127	13:21:00	1.478	0.112	241.88	6	0	0	18
1128	13:22:00	1.47	0.114	242.17	6	0	0	18
1129	13:23:00	1.456	0.11	241.05	6	0	0	18
1130	13:24:00	1.45	0.108	240.69	6	0	0	17
1131	13:25:00	1.448	0.108	240.46	6	0	0	18
1132	13:26:00	1.442	0.106	240.11	6	0	0	18
1133	13:27:00	1.446	0.108	240.45	6	0	0	17
1134	13:28:00	1.446	0.108	240.73	6	0	0	18
1135	13:29:00	1.44	0.106	240.29	6	0	0	18
1136	13:30:00	1.44	0.108	240.19	6	0	0	18
1137	13:31:00	1.436	0.106	240.06	6	0	0	17
1138	13:32:00	1.44	0.108	240.48	6	0	0	18
1139	13:33:00	1.436	0.106	240.2	6	0	0	18
1140	13:34:00	1.434	0.106	240.03	6	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1141	13:35:00	1.648	0.102	239.8	6.8	0	0	18
1142	13:36:00	1.734	0.102	239.49	7.2	0	0	17
1143	13:37:00	1.816	0.202	239.02	7.6	0	0	18
1144	13:38:00	1.808	0.204	239.8	7.6	0	0	17
1145	13:39:00	1.822	0.21	240.61	7.6	0	0	18
1146	13:40:00	1.822	0.21	240.47	7.6	0	0	18
1147	13:41:00	1.826	0.21	240.86	7.6	0	0	18
1148	13:42:00	1.824	0.21	240.8	7.6	0	0	17
1149	13:43:00	1.82	0.208	240.56	7.6	0	0	18
1150	13:44:00	1.81	0.206	239.91	7.6	0	0	18
1151	13:45:00	1.81	0.206	240.01	7.6	0	0	17
1152	13:46:00	1.806	0.206	239.84	7.6	0	0	18
1153	13:47:00	1.814	0.208	240.45	7.6	0	0	18
1154	13:48:00	1.812	0.208	240.41	7.6	0	0	17
1155	13:49:00	1.784	0.154	241.24	7.4	0	0	18
1156	13:50:00	1.758	0.112	241.6	7.2	0	0	18
1157	13:51:00	1.768	0.114	242.26	7.2	0	0	18
1158	13:52:00	1.764	0.112	242	7.2	0	0	18
1159	13:53:00	1.764	0.112	242.11	7.2	0	0	18
1160	13:54:00	2.152	0.106	241.42	9.2	0	0	18
1161	13:55:00	3.092	0.092	240.03	12.8	0	0	17
1162	13:56:00	1.79	0.108	241.81	7.4	0	0	18
1163	13:57:00	1.76	0.108	241.58	7.2	0	0	18
1164	13:58:00	1.752	0.104	240.73	7.2	0	0	18
1165	13:59:00	1.75	0.106	240.85	7.2	0	0	17
1166	14:00:00	1.744	0.104	240.38	7.2	0	0	18
1167	14:01:00	1.77	0.11	241.89	7.2	0	0	18
1168	14:02:00	1.794	0.118	243.5	7.4	0	0	18
1169	14:03:00	1.774	0.11	241.96	7.2	0	0	18
1170	14:04:00	1.782	0.112	242.61	7.2	0	0	18
1171	14:05:00	1.788	0.114	243.21	7.4	0	0	18
1172	14:06:00	2.4	0.134	242.58	10.2	0	0	18
1173	14:07:00	1.8	0.122	244.28	7.4	0	0	18
1174	14:08:00	1.938	0.12	244.51	8	0	0	19
1175	14:09:00	2.304	0.116	244.46	9.8	0	0	18
1176	14:10:00	2.066	0.142	243.75	8.6	0	0	18
1177	14:11:00	1.938	0.12	244.03	8	0	0	18
1178	14:12:00	1.802	0.122	244.71	7.4	0	0	19

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1179	14:13:00	1.954	0.246	243.89	8	0	0	18
1180	14:14:00	2.058	0.316	243.32	8.6	0	0	18
1181	14:26:00	2.136	0.354	245.72	8.8	0	0	18
1182	14:27:00	2.51	0.274	246	10.4	0	0	19
1183	14:28:00	2.68	0.292	246.04	11.2	0	0	18
1184	14:29:00	2.372	0.282	245.64	9.8	0	0	19
1185	14:30:00	2.154	0.268	245.51	8.8	0	0	18
1186	14:31:00	2.146	0.266	245.08	8.8	0	0	18
1187	14:32:00	2.14	0.262	244.67	8.8	0	0	19
1188	14:33:00	2.142	0.26	244.49	8.8	0	0	18
1189	14:34:00	2.228	0.258	244.51	9	0	0	18
1190	14:35:00	2.19	0.254	243.88	9	0	0	18
1191	14:36:00	2.122	0.252	243.18	8.8	0	0	19
1192	14:37:00	2.118	0.25	242.89	8.6	0	0	18
1193	14:38:00	2.12	0.252	243.16	8.8	0	0	18
1194	14:39:00	2.118	0.25	242.94	8.6	0	0	18
1195	14:40:00	2.11	0.254	242.46	8.6	0	0	18
1196	14:41:00	2.11	0.266	242.6	8.6	0	0	18
1197	14:42:00	2.11	0.264	242.48	8.6	0	0	18
1198	14:43:00	2.108	0.264	242.47	8.6	0	0	18
1199	14:44:00	2.104	0.268	241.65	8.8	0	0	18
1200	14:45:00	1.856	0.238	242.58	7.6	0	0	18
1201	14:46:00	1.858	0.24	242.86	7.6	0	2	18
1202	14:47:00	1.87	0.244	243.87	7.6	0	1	18
1203	14:48:00	2.046	0.242	243.91	8.4	0	1	18
1204	14:49:00	2.152	0.236	243.17	8.8	0	2	18
1205	14:50:00	2.17	0.244	244.36	8.8	0	1	18
1206	14:51:00	2.162	0.24	243.88	8.8	0	2	19
1207	14:52:00	2.16	0.24	243.8	8.8	0	1	18
1208	14:53:00	2.154	0.24	243.78	8.8	0	1	18
1209	14:54:00	2.238	0.324	244.46	9.2	0	2	18
1210	14:55:00	2.24	0.348	244.05	9.2	0	1	18
1211	14:56:00	2.248	0.352	244.6	9.2	0	2	19
1212	14:57:00	2.188	0.26	244.76	9	0	1	18
1213	14:58:00	2.152	0.212	244.71	8.8	0	1	18
1214	14:59:00	2.13	0.208	243.88	8.6	0	2	19
1215	15:00:00	2.11	0.202	243.11	8.6	0	1	18
1216	15:01:00	2.112	0.204	243.38	8.6	0	1	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1217	15:02:00	2.12	0.208	244.07	8.6	0	2	18
1218	15:03:00	2.108	0.204	243.26	8.6	0	1	18
1219	15:04:00	2.106	0.204	243.31	8.6	0	1	18
1220	15:05:00	2.076	0.178	242.84	8.6	0	1	18
1221	15:06:00	1.996	0.07	241.88	8.2	0	2	18
1222	15:07:00	2.004	0.07	241.87	8.2	0	1	18
1223	15:08:00	2.01	0.074	242.78	8.2	0	1	18
1224	15:09:00	2.002	0.072	242.11	8.2	0	1	18
1225	15:10:00	1.934	0	241.73	8	0	0	18
1226	15:11:00	1.954	0	242.36	8	0	0	18
1227	15:12:00	2.06	0.08	242.68	8.4	0	0	18
1228	15:13:00	2.022	0.082	241.48	8.4	0	0	18
1229	15:14:00	2.128	0.08	241.38	8.8	0	0	18
1230	15:15:00	2.18	0.078	241.26	9	0	0	17
1231	15:16:00	2.178	0.078	241.22	9	0	0	18
1232	15:17:00	2.172	0.076	240.88	9	0	0	18
1233	15:18:00	2.18	0.078	241.42	9	0	0	18
1234	15:19:00	2.1	0.08	241.37	8.6	0	0	18
1235	15:20:00	2.142	0.084	241.85	8.8	0	0	18
1236	15:21:00	2.144	0.086	241.88	8.8	0	0	17
1237	15:22:00	2.07	0.088	242.3	8.4	0	0	18
1238	15:23:00	2.042	0.09	242.71	8.4	0	0	18
1239	15:24:00	3.006	0.106	241.29	12.4	0	0	18
1240	15:25:00	3.156	0.126	241.89	13	1	0	18
1241	15:26:00	3.118	0.106	240.9	12.8	1	0	18
1242	15:27:00	3.124	0.098	241.15	12.8	2	0	18
1243	15:28:00	4.502	0.082	238.42	19.8	1	0	17
1244	15:30:00	3.054	0.1	240.93	13	1	0	18
1245	15:31:00	2.886	0.17	240.92	12	1	0	18
1246	15:32:00	2.902	0.208	241.53	12	2	0	18
1247	15:33:00	2.892	0.204	240.76	12	1	0	18
1248	15:34:00	2.888	0.204	240.83	12	1	0	17
1249	15:35:00	2.88	0.202	240.21	12	1	0	18
1250	15:36:00	2.858	0.198	239.38	11.8	1	0	18
1251	15:37:00	3.382	0.148	238.54	14.6	9	0	17
1252	15:38:00	4.944	0.048	236.93	20.8	38	0	17
1253	15:39:00	4.928	0.048	236.76	20.8	38	0	17
1254	15:40:00	4.908	0.046	236.28	20.6	38	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1255	15:41:00	4.918	0.046	236.66	20.6	37	0	18
1256	15:42:00	4.956	0.05	237.67	20.8	38	0	17
1257	15:43:00	4.944	0.052	237.55	20.8	38	0	17
1258	15:44:00	4.968	0	237.92	20.8	38	0	17
1259	15:45:00	4.89	0	236.94	20.6	38	0	18
1260	15:46:00	4.9	0	237.11	20.6	38	0	17
1261	15:47:00	2.812	0	240.43	11.8	4	0	18
1262	15:48:00	4.794	0	238.88	20.2	33	0	17
1263	15:49:00	2.92	0	239.87	12.2	5	0	18
1264	15:50:00	2.852	0	239.6	11.8	1	0	17
1265	15:51:00	2.814	0	239.64	11.6	2	0	18
1266	15:52:00	2.744	0	239.6	11.4	1	0	17
1267	15:53:00	2.76	0	240.5	11.4	1	0	18
1268	15:54:00	2.758	0	240.87	11.4	1	0	18
1269	15:55:00	2.824	0.068	240.25	11.6	2	0	18
1270	15:56:00	2.848	0.118	240.31	11.8	1	0	17
1271	15:57:00	2.844	0.118	239.97	11.8	1	0	18
1272	15:58:00	2.81	0.112	238.46	11.8	1	0	17
1273	15:59:00	2.82	0.116	239	11.8	1	0	18
1274	16:00:00	2.818	0.114	239.01	11.8	2	0	17
1275	16:01:00	2.842	0.126	239.73	11.8	1	0	18
1276	16:02:00	2.834	0.12	239.83	11.8	1	0	17
1277	16:03:00	2.83	0.118	239.79	11.8	1	0	18
1278	16:04:00	2.824	0.118	239.51	11.8	1	0	18
1279	16:05:00	2.814	0.116	238.95	11.8	2	0	17
1280	16:06:00	2.794	0.112	237.97	11.6	1	0	17
1281	16:07:00	2.794	0.112	237.98	11.6	1	0	18
1282	16:08:00	2.78	0.11	237.26	11.6	1	0	17
1283	16:09:00	2.78	0.11	237.39	11.6	1	0	17
1284	16:10:00	2.756	0.138	236.41	11.6	2	0	17
1285	16:11:00	2.748	0.13	237.14	11.6	0	0	18
1286	16:12:00	2.776	0.116	236.79	11.6	2	0	17
1287	16:13:00	2.842	0.154	238.03	12	1	0	17
1288	16:14:00	2.856	0.184	238.47	12	1	0	17
1289	16:15:00	2.798	0.088	238.96	11.6	1	0	18
1290	16:16:00	2.81	0.09	239.43	11.6	1	0	18
1291	16:17:00	2.81	0.088	239.55	11.6	2	0	17
1292	16:18:00	2.792	0.088	238.81	11.6	1	0	18

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1293	16:19:00	2.792	0.114	238.95	11.6	1	0	17
1294	16:20:00	2.75	0.112	238.63	11.4	1	0	17
1295	16:21:00	2.762	0.094	237.46	11.6	1	0	18
1296	16:22:00	4.838	0.066	235.24	20.6	34	0	17
1297	16:23:00	4.878	0.064	234.93	20.6	37	0	17
1298	16:24:00	4.864	0	235.59	20.6	37	0	17
1299	16:25:00	4.868	0	236.61	20.4	38	0	17
1300	16:26:00	4.876	0	236.75	20.6	37	0	17
1301	16:27:00	4.81	0	235.09	20.4	37	0	17
1302	16:28:00	4.79	0	234.48	20.4	37	0	17
1303	16:29:00	4.784	0	234.2	20.4	37	0	17
1304	16:30:00	4.806	0	234.92	20.4	37	0	16
1305	16:31:00	4.834	0	235.96	20.4	37	0	17
1306	16:32:00	4.856	0	236.54	20.4	38	0	18
1307	16:33:00	4.844	0	236.17	20.4	37	0	17
1308	16:34:00	4.912	0.084	234.94	20.8	37	0	17
1309	16:35:00	3.12	0.1	237.16	13.6	8	0	17
1310	16:36:00	2.73	0.1	237.83	11.4	0	0	17
1311	16:37:00	2.962	0.096	237.8	12.4	0	0	17
1312	16:38:00	2.764	0.104	237.65	11.6	0	0	18
1313	16:39:00	2.748	0.138	238.22	11.4	1	0	17
1314	16:40:00	2.722	0.106	237.75	11.4	0	0	17
1315	16:41:00	2.768	0.098	237.72	11.6	0	0	18
1316	16:42:00	2.832	0.098	238.25	11.8	0	0	17
1317	16:43:00	2.804	0.092	236.91	11.8	0	0	17
1318	16:44:00	2.788	0.09	236.12	11.8	0	0	17
1319	16:45:00	2.802	0.092	236.72	11.8	0	0	18
1320	16:46:00	2.8	0.092	236.59	11.8	0	0	17
1321	16:47:00	2.776	0.088	235.4	11.8	0	0	17
1322	16:48:00	2.768	0.1	234.2	11.8	0	0	16
1323	16:49:00	2.798	0.116	234.66	11.8	0	0	17
1324	16:50:00	2.846	0.098	234.7	12	0	0	17
1325	16:51:00	3.234	0.072	233.86	13.8	0	0	17
1326	16:52:00	3.256	0	235	13.8	0	0	17
1327	16:53:00	3.272	0	235.64	13.8	0	0	17
1328	16:54:00	3.328	0.1	235.31	14.2	0	0	17
1329	16:55:00	3.316	0.128	234.47	14	0	0	17
1330	16:56:00	3.39	0.18	235.44	14.4	0	0	17

Obs	Time	Global_active_power	Global_reactive_power	Voltage	Global_intensity	Sub_metering_1	Sub_metering_2	Sub_metering_3
1331	16:57:00	3.418	0.248	235.23	14.4	0	1	17
1332	16:58:00	3.384	0.244	233.64	14.4	0	1	16
1333	16:59:00	3.374	0.242	233.17	14.4	0	2	17
1334	17:00:00	3.388	0.244	233.82	14.4	0	1	17
1335	17:01:00	3.376	0.242	233.35	14.4	0	2	17
1336	17:02:00	3.354	0.238	232.46	14.4	0	1	16
1337	17:03:00	3.472	0.236	232.29	15	0	1	17
1338	17:04:00	3.484	0.176	231.57	15	0	2	16
1339	17:05:00	3.422	0.136	231.18	14.8	0	1	16
1340	17:06:00	3.416	0.136	230.94	14.8	0	1	17
1341	17:07:00	3.446	0.136	231.33	14.8	0	2	16
1342	17:08:00	3.66	0.138	233.01	15.6	0	1	17
1343	17:09:00	3.586	0.144	233.93	15.2	0	1	17
1344	17:10:00	3.556	0.14	232.83	15.2	0	2	16
1345	17:11:00	3.604	0.156	234.18	15.4	0	1	17
1346	17:12:00	3.728	0.276	235.76	15.8	0	1	17
1347	17:13:00	3.7	0.27	234.86	15.8	0	2	17
1348	17:14:00	3.678	0.268	234.11	15.6	0	1	17
1349	17:15:00	3.67	0.266	233.91	15.6	0	1	17
1350	17:16:00	3.702	0.272	235.24	15.8	0	1	17
1351	17:17:00	3.744	0.276	234.86	16	0	1	16
1352	17:18:00	3.796	0.288	234.46	16.2	0	2	17
1353	17:19:00	3.808	0.288	234.74	16.2	0	1	17
1354	17:20:00	3.58	0.294	235.39	15.2	0	1	17
1355	17:21:00	3.37	0.22	233.34	14.4	0	1	17
1356	17:22:00	3.13	0.174	234.05	13.4	0	0	17
1357	17:23:00	3.238	0.172	233.58	13.8	0	0	16

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=6 Maxiter=20 Converge=0.02

Initial Seeds			
Cluster	Global_active_power	Global_reactive_power	Global_intensity
1	0.20600000	0.00000000	0.80000000
2	2.03800000	0.06800000	9.40000000
3	3.28200000	0.04600000	13.60000000
4	0.85600000	0.00000000	5.20000000
5	4.17000000	0.26800000	18.00000000
6	5.28200000	0.15000000	22.40000000

Minimum Distance Between Initial Seeds =	4.363685
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Iteration History							
Iteration	Criterion	Relative Change in Cluster Seeds					
		1	2	3	4	5	6
1	0.6752	0.2049	0.0464	0.0337	0.1508	0.1290	0.3591
2	0.5925	0.0354	0.0210	0.0146	0.0961	0.1592	0.0921
3	0.5618	0.0300	0.0237	0.00816	0.0753	0.0614	0.0337
4	0.5501	0.00716	0.00874	0.00459	0.0198	0.0391	0.0140
5	0.5478	0	0.00997	0.00387	0.0176	0.0433	0.0218
6	0.5461	0	0.0135	0.0198	0	0.0238	0.0221
7	0.5443	0	0.00348	0.00609	0	0	0

Convergence criterion is satisfied.

Criterion Based on Final Seeds =	0.5442
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Cluster Summary						
Cluster	Frequency	RMS Std Deviation	Maximum Distance from Seed to Observation	Radius Exceeded	Nearest Cluster	Distance Between Cluster Centroids
1	145	0.5353	2.2493		4	4.7404
2	523	0.5033	1.9745		4	3.1966
3	320	0.5451	1.9982		5	2.4191
4	221	0.6293	2.3578		2	3.1966
5	84	0.4982	1.9850		3	2.4191
6	64	0.6408	2.3671		5	4.1457

The FASTCLUS Procedure

Replace=FULL Radius=0 Maxclusters=6 Maxiter=20 Converge=0.02

Statistics for Variables				
Variable	Total STD	Within STD	R-Square	RSQ/(1-RSQ)
Global_active_power	1.08089	0.24195	0.950077	19.030776
Global_reactive_power	0.08777	0.08490	0.067771	0.072697
Global_intensity	4.46006	0.90922	0.958595	23.151942
OVER-ALL	2.65004	0.54541	0.957797	22.695205

Pseudo F Statistic =	6132.24
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Approximate Expected Over-All R-Squared =	0.92399
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Cubic Clustering Criterion =	23.803
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WARNING: The two values above are invalid for correlated variables.

Cluster Means			
Cluster	Global_active_power	Global_reactive_power	Global_intensity
1	0.40880000	0.08547586	1.99034483
2	2.32101721	0.10664245	9.69101338
3	3.23945000	0.09091875	13.70937500
4	1.46320362	0.12618100	6.61176471
5	3.76564286	0.17404762	16.06904762
6	4.74150000	0.06750000	20.09687500

Cluster Standard Deviations			
Cluster	Global_active_power	Global_reactive_power	Global_intensity
1	0.164438675	0.085818290	0.908396339
2	0.223474937	0.087695137	0.838064458
3	0.218053969	0.074679963	0.915577271
4	0.343675189	0.092269584	1.030289923
5	0.206006237	0.088647115	0.833337923
6	0.265843253	0.075369987	1.074963085