

Reliability Report Data 2002-2010

Investor-Owned Utilities

This report summarizes the reliability indices reports filed by each of the investor-owned utilities, in compliance with 170 IAC 4-1-23(e). Reliability data is shown for the time period 2002 through 2010.

Each utility reported its indices with and without major events. Major events are storms or weather events that are more destructive than normal storm patterns. The utilities do not all define a “major event” exactly the same; therefore some utilities will capture more of their service interruptions in the “without” category than other utilities. This is one reason why one should avoid making direct comparisons among the utilities based on the indices. Service territory geography and size and customer mix are also factors that make direct comparison of the indices among the utilities difficult.

Three separate reliability indices were reported by each of the utilities:

- System Average Interruption Frequency Index (SAIFI): the total number of customer interruptions divided by the total number of customers (average interruptions per customer).
- System Average Interruption Duration Index (SAIDI): the sum of all customer interruption durations (in minutes) divided by the total number of customers (average minutes of interruption per customer).
- Customer Average Interruption Duration Index (CAIDI): SAIDI divided by SAIFI (average minutes per interruption).

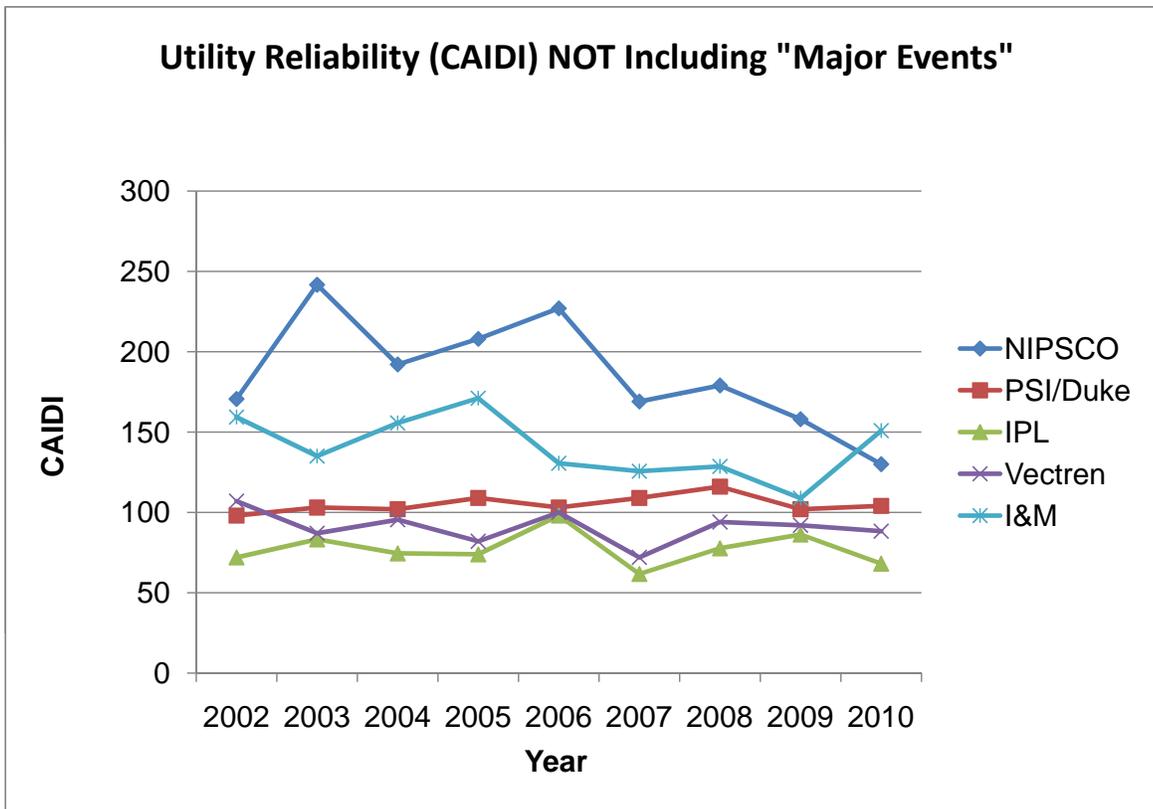
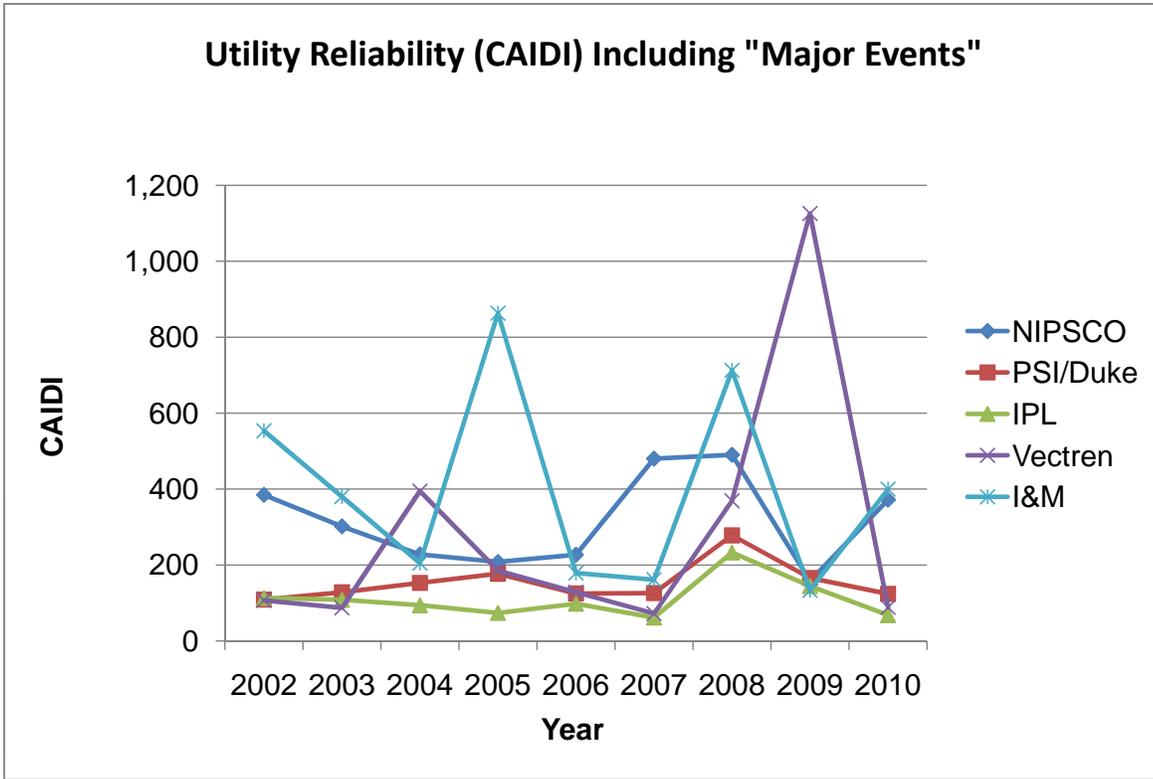
“Major Events” (Weather) Summary

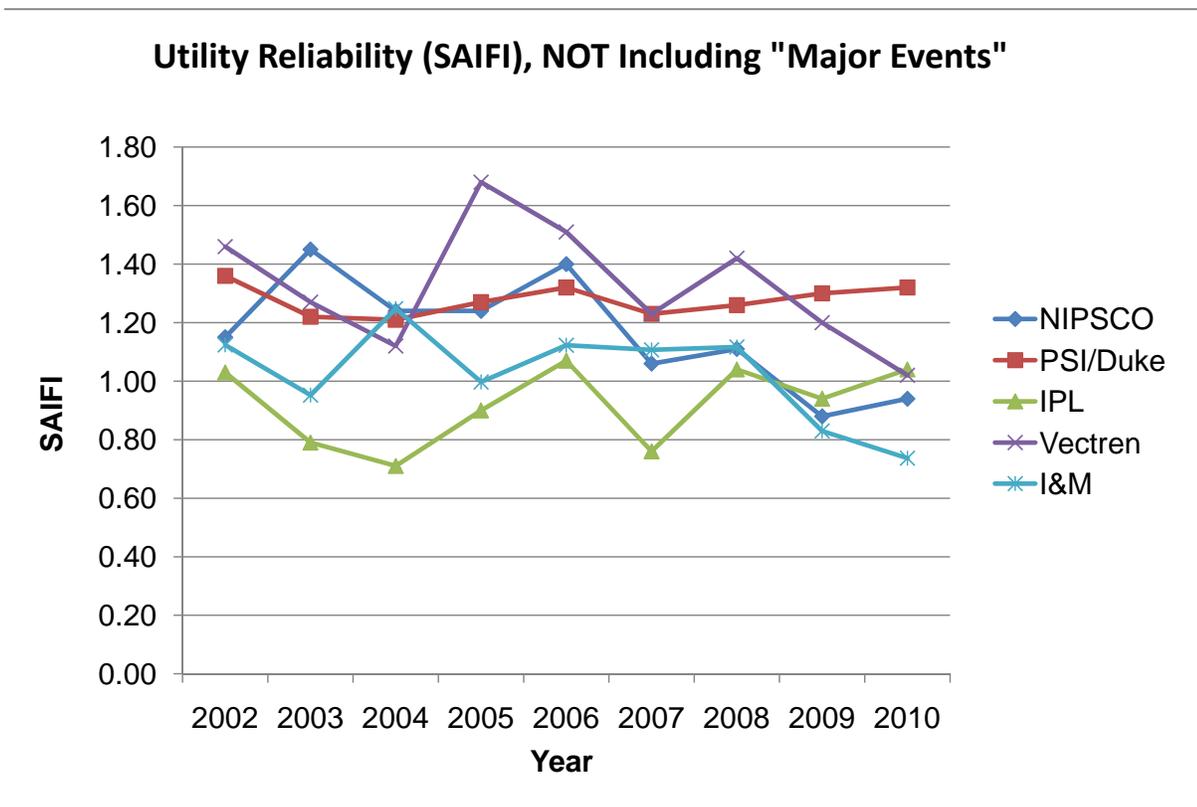
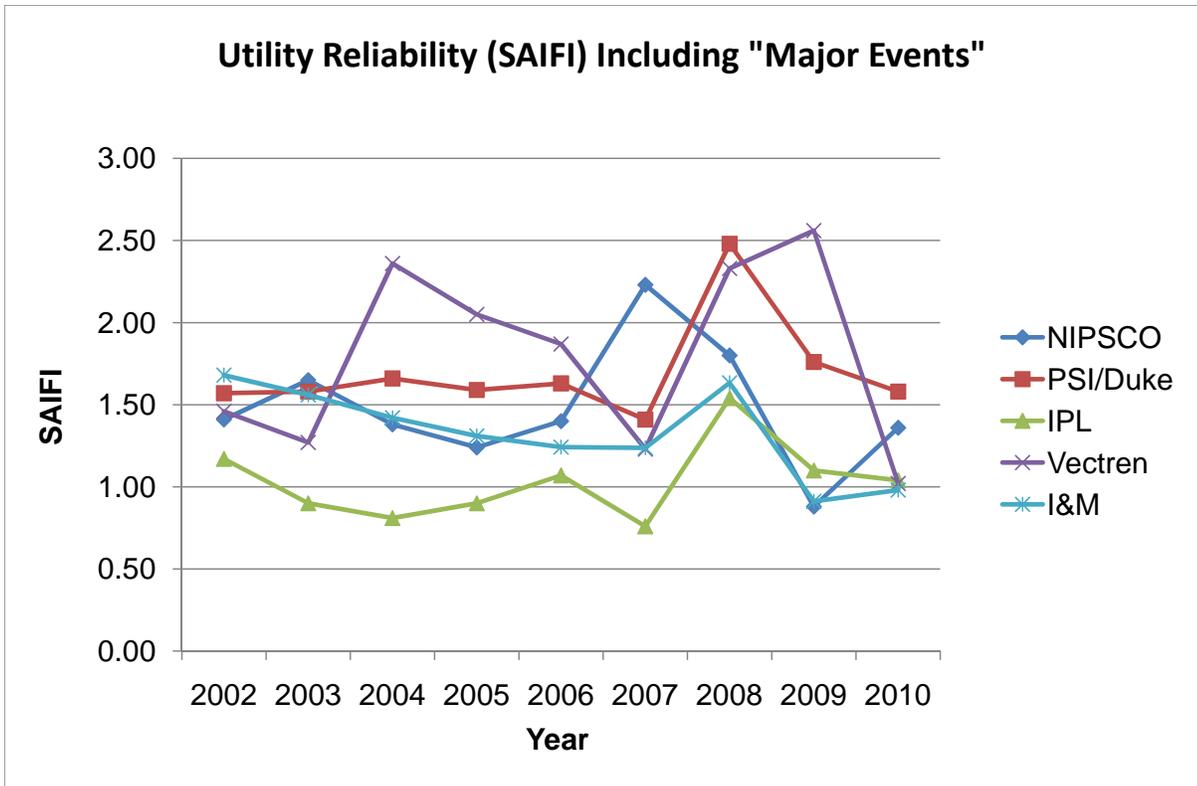
The following table summarizes the number of major event days each utility reported having in 2010. In addition to the major events below, IPL stated it had 18 non major storm events and NIPSCO stated it experienced an additional 20 weather events it considered severe. It should be noted that one storm system can potentially cause multiple major event days.

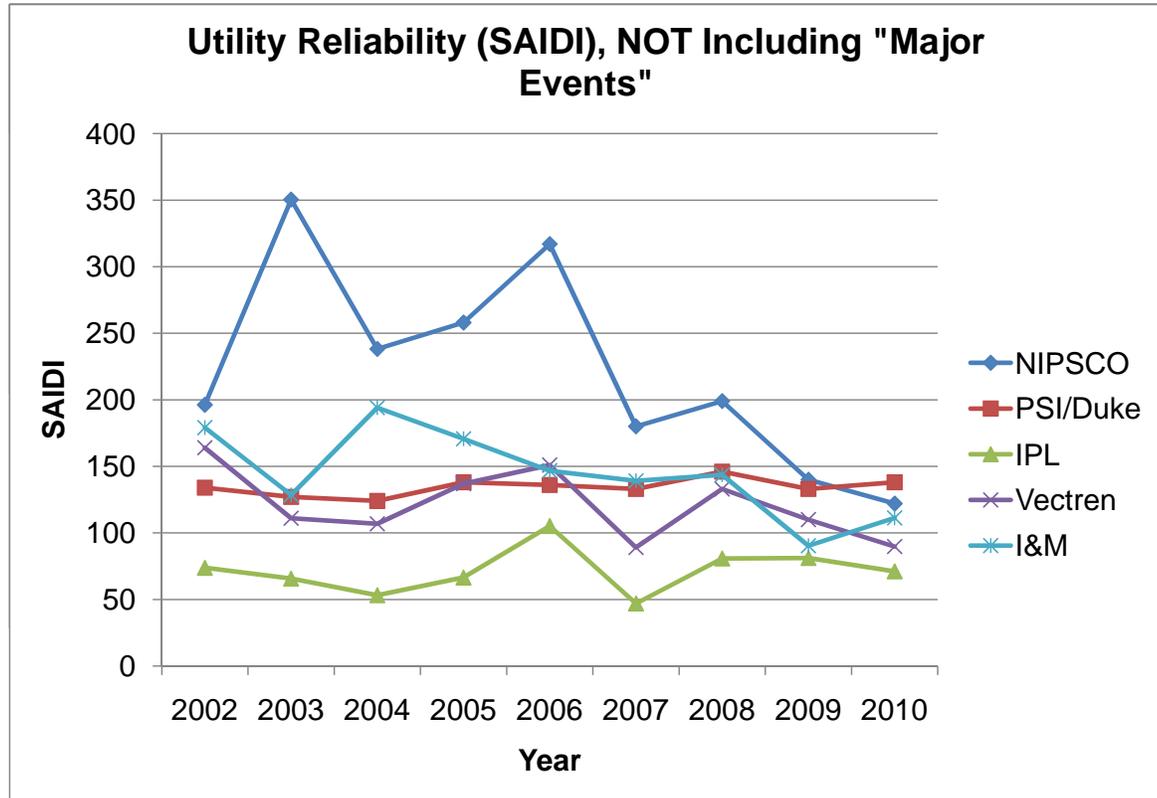
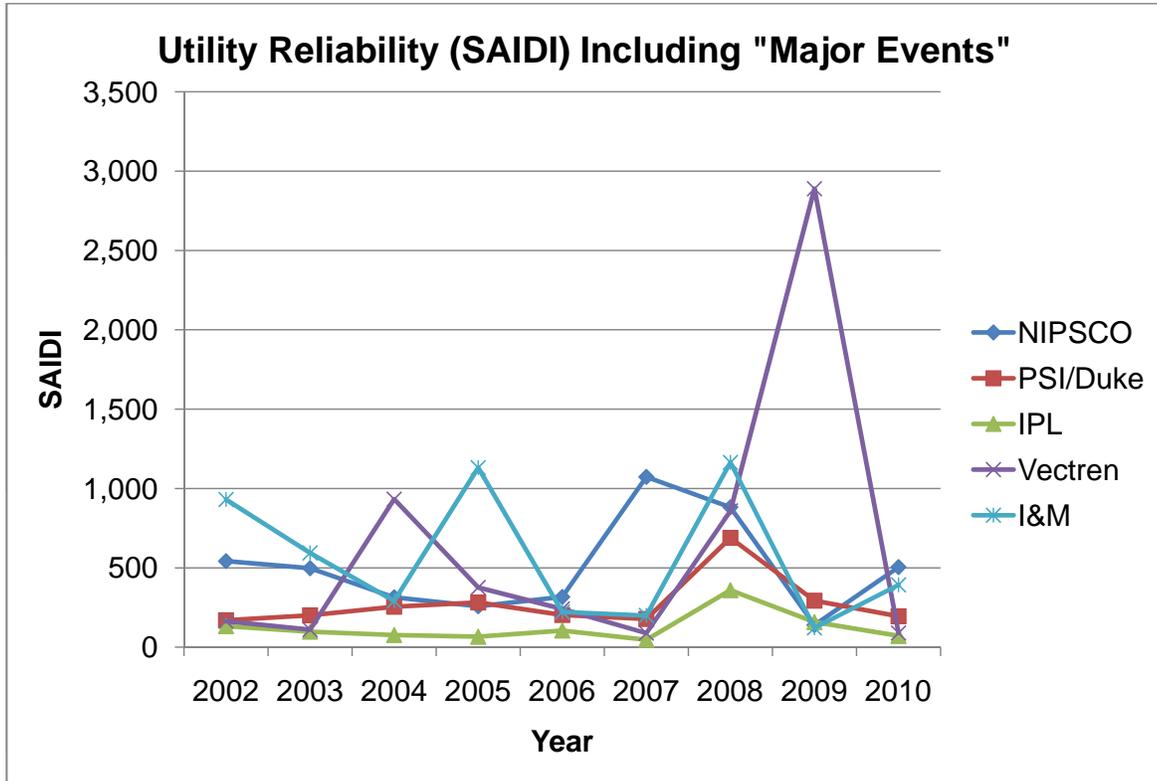
Utility	Major Event Days
NIPSCO	9
IPL	0
I&M	6
Duke Energy Indiana	5
Vectren	0

Electric Reliability: Including Major Events*									
	2002	2003	2004	2005	2006	2007	2008	2009	2010
NIPSCO**									
SAIFI	1.41	1.65	1.38	1.24	1.40	2.23	1.80	0.88	1.36
SAIDI	542	498	314	258	317	1,073	882	140	505
CAIDI	385	302	228	208	227	480	490	158	372
PSI/Duke									
SAIFI	1.57	1.58	1.66	1.59	1.63	1.41	2.48	1.76	1.58
SAIDI	170	201	255	282	203	178	689	293	195
CAIDI	109	128	153	177	125	126	278	166	124
IPL									
SAIFI	1.17	0.90	0.81	0.90	1.07	0.76	1.54	1.1	1.04
SAIDI	133	98	77	67	105	47	359	158	71
CAIDI	113	108	94	74	98	62	233	145	68
Vectren									
SAIFI	1.46	1.27	2.36	2.05	1.87	1.23	2.33	2.56	1.02
SAIDI	164	111	932	376	241	89	859	2,889	90
CAIDI	107	87	395	185	128	72	369	1,126	88
I&M									
SAIFI	1.68	1.56	1.42	1.31	1.24	1.24	1.63	0.91	0.98
SAIDI	931	594	291	1,132	222	199	1,164	122	392
CAIDI	554	380	205	863	179	161	713	133	400
Notes									
SAIFI: System Average Interruption Frequency Index; (total # of customer interruptions) / (total # of customers)									
SAIDI: System Average Interruption Duration Index; (duration or time of service interruptions) / (total # of customers)									
CAIDI: Customer Average Interruption Duration Index; (SAIDI) / (SAIFI)									
*Major events are storms or weather events that are more destructive than normal storm patterns. The same definition of "major event" is not used by all utilities.									
**NIPSCO's 2007 report updated values for 2004-2006 based on accepted industry standard IEEE Std 1366 - however, the above values reflect the original reports.									

Electric Reliability: NOT Including Major Events*									
	2002	2003	2004	2005	2006	2007	2008	2009	2010
NIPSCO**									
SAIFI	1.15	1.45	1.24	1.24	1.40	1.06	1.11	0.88	0.94
SAIDI	196	350	238	258	317	180	199	140	122
CAIDI	171	242	192	208	227	169	179	158	130
PSI/Duke									
SAIFI	1.36	1.22	1.21	1.27	1.32	1.23	1.26	1.3	1.32
SAIDI	134	127	124	138	136	133	146	133	138
CAIDI	98	103	102	109	103	109	116	102	104
IPL									
SAIFI	1.03	0.79	0.71	0.90	1.07	0.76	1.04	0.94	1.04
SAIDI	74	66	53	67	105	47	81	81	71
CAIDI	72	83	75	74	98	62	78	86	68
Vectren									
SAIFI	1.46	1.27	1.12	1.68	1.51	1.23	1.42	1.2	1.02
SAIDI	164	111	107	137	151	89	133	110	90
CAIDI	107	87	95	82	100	72	94	92	88
I&M									
SAIFI	1.12	0.95	1.25	1.00	1.12	1.11	1.12	0.83	0.74
SAIDI	179	129	194	171	147	139	144	90	111
CAIDI	159	135	156	171	131	126	129	109	151
Notes									
SAIFI: System Average Interruption Frequency Index; (total # of customer interruptions) / (total # of customers)									
SAIDI: System Average Interruption Duration Index; (duration or time of service interruptions) / (total # of customers)									
CAIDI: Customer Average Interruption Duration Index; (SAIDI) / (SAIFI)									
*Major events are storms or weather events that are more destructive than normal storm patterns. The same definition of "major event" is not used by all utilities.									
**NIPSCO's 2007 report updated values for 2004-2006 based on accepted industry standard IEEE Std 1366 - however, the above values reflect the original reports.									







Comparison of 2010 Indices with 2002-2009 Average Indices (Without Major Events)				
	2010	2002-2009 Avg.	2010 Diff Vs Avg	2010 % Diff Vs Avg
NIPSCO*				
SAIFI	0.94	1.19	-0.25	-21%
SAIDI	122	235	-113	-48%
CAIDI	130	193	-63	-33%
PSI/Duke				
SAIFI	1.32	1.27	0.05	4%
SAIDI	138	134	4	3%
CAIDI	104	105	-1	-1%
IPL				
SAIFI	1.04	0.91	0.14	15%
SAIDI	71	72	-1	-1%
CAIDI	68	78	-10	-13%
Vectren				
SAIFI	1.02	1.36	-0.34	-25%
SAIDI	90	125	-36	-28%
CAIDI	88	91	-3	-3%
I&M				
SAIFI	0.74	1.06	-0.33	-31%
SAIDI	111	149	-38	-25%
CAIDI	151	139	12	8%
**NIPSCO's 2007 report updated values for 2004-2006 based on accepted industry standard IEEE Std 1366. However, the above averages reflect the originally filed figures.				