

Sacramento Municipal Utility District 2008 Distribution System Reliability Report

This report provides the 2008 year-end reliability performance associated with the Board of Directors' Reliability Policy, SD-4.

The table below summarizes the distribution system performance during the last five years. Also included is the five-year average performance. The reliability indices are calculated using all outages (including major system events such as storms) greater than one minute.

Year	SAIDI (minutes)		SAIFI	
	Goal	Actual	Goal	Actual
INCLUDING MAJOR EVENTS				
2004	80.4	88.7	1.16	1.14
2005	80.4	74.2	1.16	1.52
2006	80.4	99.3	1.16	1.42
2007	80.4	62.3	1.16	1.15
2008	80.4	306.6	1.16	2.46
5 Year Average*		126.2		1.54
EXCLUDING MAJOR EVENTS				
2004	80.4	56.4	1.16	0.88
2005	80.4	66.1	1.16	1.12
2006	80.4	80.8	1.16	1.36
2007	80.4	62.3	1.16	1.15
2008	80.4	84.4	1.16	1.44
5 Year Average*		71.6		1.27
*Calculated using 2004-2008 statistics				

The following indices are used by staff to measure the reliability of the District's distribution system. These indices are used in the electric industry to measure distribution system reliability.

- System Average Interruption Duration Index (SAIDI)

$$\text{SAIDI} = \frac{\text{Outage time experienced by customers}}{\text{Total number of customers}}$$

- System Average Interruption Frequency Index

$$\text{SAIFI} = \frac{\text{Number of outages experienced by customers}}{\text{Total number of customers}}$$

