

1 Q. Please provide all flashover data on all 230 kV lines on the Island for the past five  
2 years.

3

4

5 A. The following table presents all the flashover data on all 230 kV lines on the island  
6 from 2009 to 2013.

**Fault (flashover data) on the Hydro 230 kV System  
from 2009 to 2013**

	<b>Total Number of Outages</b>	<b>Number of Transient Outages</b>	<b>Number of Sustained Outages</b>
TL201	33	21	12
TL202	9	4	5
TL203	2	1	1
TL204	8	6	2
TL205	9	8	1
TL206	2	0	2
TL207	1	0	1
TL208	21	15	6
TL209	2	0	2
TL211	8	2	6
TL217	6	3	3
TL218	6	0	6
TL228	0	0	0
TL231	6	4	2
TL232	5	4	1
TL233	4	1	3
TL234	6	3	3
TL235	0	0	0
TL236	0	0	0
TL237	2	0	2
TL238	0	0	0
TL242	2	1	1
TL247	6	1	5
TL248	1	1	0
TL263	4	0	4
<b>All Lines</b>	<b>143</b>	<b>75</b>	<b>68</b>

*Please note that the outages listed in the table above refer to transmission line equipment outages only. These outages may not have resulted in a customer outage.*

**Transient Outage** – Outage duration is less than one minute.

**Sustained Outage** – Outage duration is one minute or greater.

**Island Interconnected System Supply Issues and Power Outages**

---

**Page 3 of 3**

1        The high frequency of flashovers on TL201 and on TL208 are due to extremely high  
2        wind events, including the following:

3

4        Hurricane Igor September 21, 2010        TL201        14 events

5        Winter Storm on February 26, 2011        TL208        9 events

6        Hurricane Leslie on September 11, 2011        TL201        9 events