

RP&L Helps the City Save Energy and Money

The L.E.D. conversion project was completed in late June of 2011. Richmond Power and Light teamed up with the City of Richmond to convert 21 city owned and maintained traffic light intersections. The project also converted associated "Walk/Wait" signals to the same technology.

A pilot program was first completed at the intersection of NW 5th and Main streets to test the effectiveness of the conversion process. The results were impressive showing a greater than 80% reduction in power usage for the intersection.

The project is expected to pay for itself in 4 to 5 years. As of June of 2011, the RP&L financials for traffic light power costs already show a 23.5% savings vs. June of 2010. The converted intersections are expected to save the City an estimated \$17,000 annually.

As well as Kwh usage savings, the conversion will provide modest savings in associated greenhouse gas emissions.



Avg Kwh Usage

Location	Before	After	% Drop
N.W. 2nd. & Richmond Ave.	600	70	-88%
N.W. 5th. & Richmond Ave.	600	70	-88%
N.W. 5th. & "L" St.	600	120	-80%
Williamsburg Pike & Progress Drive	650	85	-87%
Williamsburg Pike & Alcoa	465	116	-75%
Williamsburg Pike & Rich Rd.	550	60	-89%
N. 5th. & "D" St.	1000	527	-47%
N. 7th. & "D" St.	1300	370	-72%
N. 12th. & "E" St.	650	70	-89%
N. 20th. & "E" St.	925	300	-68%
S. 5th. & "G" St.	800	200	-75%
S. 5th. & "E" St.	650	66	-90%
Sim Hodgkin & Bridge Ave.	675	80	-88%
S. 12th. & "A" St.	675	175	-74%
S. 13th. & "A" St.	500	64	-87%
Hub Etchison Pkwy. & "G" St.	650	70	-89%
N.W. 5th. & West Main St.	1100	128	-88%
Hub Etchison Pkwy. & S.W. 1st. St.	1000	250	-75%
So. 37th. & Kroger Entrance	950	110	-88%
Williamsburg Pike & Industries Rd.	820	164	-80%
So. 13th. & "E" St.	1000	133	-87%
S.W. 1st. & Main	680	120	-82%
Total	16,840	3,348	-80%

Average Monthly Kwh Saved: 13,492

Average Yearly Kwh Saved: 161,904