



# Resource Conservation Program Summary



Fort Worth BBC Advisory Committee

Ending Fiscal Year 2014



# Resource Conservation Program Summary

City of Fort Worth		Approval		Projection		
Resource Conservation		Mayor & Council Communication (M&C)		Construction Cost	First-Year Savings	Simple Payback
Dept.	Project Name	Date	Ref. No.	\$	\$/Year	No. Years
Property	ESPC Phase 1	02-Sep-03	C-19739	\$ 3,063,090	\$ 397,247	7.7
	ESPC Phase 2	07-Feb-06	C-21289	\$ 2,395,659	\$ 342,854	7.0
	ESPC Phase 3	26-Sep-06	C-21737	\$ 5,198,937	\$ 711,324	7.3
	ESPC Phase 4	17-Jun-08	C-22868	\$ 9,248,307	\$ 944,814	9.8
	ESPC Phase 6, Part B	25-Jan-11	C-24718	\$ 3,363,841	\$ 173,793	19
	ESPC Phase 7	21-May-13	C-26273	\$ 10,955,452	\$ 565,268	19
T/PW	LED Traffic Signals	17-Apr-07	C-22063	\$ 1,959,678	\$ 536,624	3.7
Water	ESPC Phase 5, Sec.1	02-Feb-10	C-24070	\$ 13,577,350	\$ 949,275	14
	ESPC Phase 5, Sec.2	20-Jul-10	C-24360	\$ 17,889,397	\$ 1,643,221	11
	ESPC Phase 6, Part A	17-Aug-10	C-24406	\$ 1,815,526	\$ 211,387	8.6
<b>Totals</b>		<b>FY02-FY13</b>	<b>Various</b>	<b>\$ 69,467,237</b>	<b>\$ 6,475,807</b>	<b>11</b>





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City of Fort Worth		Funding		Financials		
Resource Conservation		Funding Source	Interest Rate(s)	Cash Flow Term	Compound Payback	Return On Investment
Dept.	Project Name	Type	%	No. Years	No. Years	%-ROI
Property	ESPC Phase 1	State Loan	3.0%	10	8.9	7.7%
		Muni. Lease	4.7%			
	ESPC Phase 2	State Loan Amendment	3.0%	10	9.2	8.5%
	ESPC Phase 3	State Loan	3.0%	10	8.9	12%
	ESPC Phase 4	Muni. Lease	4.5%>2.2%	15	15	0.0%
	ESPC Phase 6, Part B	Federal Grant	NA	15	14	0.7%
		Trust Funds	0.53%			
ESPC Phase 7	Muni. Lease	2.2%	13	10	36%	
T/PW	LED Traffic Signals*	Muni. Lease	3.7%	4	3.5	15%
Water	ESPC Phase 5, Sec.1	Capital Funds	NA	13	1.1	NA
	ESPC Phase 5, Sec.2	Muni. Lease	3.7%>2.3%	12	10	16%
		Capital Funds	NA			
ESPC Phase 6, Part A	Federal Grant	NA	9	0.5	NA	





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City of Fort Worth	Project Performance - Financial				
Resource Conservation	Guarantee Period	Performance Period	Guaranteed Savings	Reported Savings	Pos./ (Neg.) Variance
City Dept.-Project(s)	Start-date	End-date	\$-to-date	\$-to-date	Delta-\$
Property-ESPC (6-Phases)	Oct-04	Sep-14	\$ 15,342,489	\$ 17,930,228	\$ 2,587,739
T/PW-LED Traffic Signals	Oct-07		\$ 3,756,368	\$ 3,756,368	\$ -
Water-ESPC (3-Phases)	Oct-10		\$ 4,065,521	\$ 7,032,336	\$ 2,966,815
<b>Total Program</b>	<b>Oct-04</b>	<b>Sep-14</b>	<b>\$ 23,164,378</b>	<b>\$ 28,718,932</b>	<b>\$ 5,554,554</b>

Note: ESPC is the common acronym for the *Energy Savings Performance Contract* construction method.





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City of Fort Worth	Project Performance - Environmental					
Resource Conservation	Avoided Usage/Period		Greenhouse Gas Equivalencies/Period			
	Electricity	Natural Gas	CO2-eq. Metric Tons	GHG-eq./yr Vehicle Miles	CO2 Emissions Lbs. of Coal	Carbon Sequest. Acres of Forest
City Dept.-Project(s)	kWh	therms				
Property-ESPC (6-Phases)	181,668,374	2,518,493	138,623	330,053,950	148,896,519	113,625
T/PW-LED Traffic Signals	46,518,631	-	32,077	76,373,735	34,454,316	26,293
Water-ESPC (3-Phases)	83,665,540	-	57,692	137,361,088	61,967,408	47,288
<b>Total Program</b>	<b>311,852,545</b>	<b>2,518,493</b>	<b>228,392</b>	<b>543,788,773</b>	<b>245,318,243</b>	<b>187,206</b>
Source: <i>Greenhouse Gas Equivalencies Calculator</i> ( <a href="http://www.epa.gov/cleanenergy/energy-resources/calculator.html">http://www.epa.gov/cleanenergy/energy-resources/calculator.html</a> )						



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