Energy Efficiency Project Financing O

October 19, 2021



Investment Grade Audit (IGA) and Energy Services Performance (ESPC) Project

Energy Efficiency Project approved by City Council

- ECM 1 Lighting Upgrades
 - Interior LED Upgrades
 - Exterior LED Upgrades
 - Smart City Lighting Controls
 - Street Lighting Upgrades Design Only
- ECM 2 Renewable Energy and EV Charging
 - Photovoltaic (PV) Generation
 - Electric Vehicle (EV) Chargers

- ECM 3 HVAC, Mechanical, and Controls Upgrades
 - Chiller Replacements
 - HVAC Controls Upgrades
 - Duct Sealing
 - SCADA Historian Replacement
 - Pool Pump VFDs
- ECM 4 Plumbing & Irrigation Upgrades
 - Plumbing Upgrades



NORESCO's Proposed Financial Proforma

NORESCO's – Investment Grade Audit (IGA) Results

Year	Utility Savings	O&M + LS-1 Option E Savings	Expected Total Savings	Guaranteed Total Savings	Repayment of Lease	M&V Service	Total Cost	Net Cash Flow	Year	Utility Savings	O&M + LS-1 Option E Savings	Expected Total Savings	Guaranteed Total Savings	Repayment of Lease	M&V Service	Total Cost	Net Cash Flow
1	\$483,298	\$81,399	\$564,697	\$541,678	\$486,609	\$27,137	\$513,746	\$27,932	19	\$203,480		\$203,480		\$0	\$0	\$0	\$203,480
2	\$494,747	\$83,887	\$578,634	\$555,070	\$524,937	\$0	\$524,937	\$30,133	20	\$207,489		\$207,489		\$0	\$0	\$0	\$207,489
3	\$506,476	\$86,453	\$592,929	\$568,806	\$537,928	\$0	\$537,928	\$30,878	21	\$211,576		\$211,576		\$0	\$0	\$0	\$211,576
4	\$518,490	\$89,097	\$607,587	\$582,892	\$551,249	\$0	\$551,249	\$31,643	22	\$215,744		\$215,744		\$0	\$0	\$0	\$215,744
5	\$530,798	\$91,824	\$622,622	\$597,341	\$564,914	\$0	\$564,914	\$32,427	23	\$219,995		\$219,995		\$0	\$0	\$0	\$219,995
6	\$543,406	\$94,635	\$638,041	\$612,159	\$578,928	\$0	\$578,928	\$33,232	24	\$224,328		\$224,328		\$0	\$0	\$0	\$224,328
7	\$556,323	\$97,533	\$653,856	\$627,359	\$593,302	\$0	\$593,302	\$34,057	25	\$228,748		\$228,748		\$0	\$0	\$0	\$228,748
8	\$569,557	\$100,522	\$670,079	\$642,952	\$608,049	\$0	\$608,049	\$34,903	Totals	\$12,213,541	\$1,916,796	\$14,130,337	\$12,109,248	\$11,426,222	\$27,137	\$11,453,359	\$2,167,249
9	\$583,114	\$103,602	\$686,716	\$658,943	\$623,172	\$0	\$623,172	\$35,771	N	- 1 - .							
10	\$597,005	\$106,779	\$703,784	\$675,350	\$638,688	\$0	\$638,688	\$36,662	N	ote:							
11	\$611,237	\$110,053	\$721,290	\$692,178	\$654,602	\$0	\$654,602	\$37,576	•	Ectim	otod Tot	tal Cavir	hac of ¢1	4.1M ove	or 25 v	oore	
12	\$625,819	\$113,430	\$739,249	\$709,442	\$670,929	\$0	\$670,929	\$38,513	•			lai Javii	iys 01 φ i	4.1101 006	51 ZO y	Eal S	
13	\$640,760	\$116,910	\$757,670	\$727,152	\$687,677	\$0	\$687,677	\$39,474		Ectim	otod Tot	lal Draig	ot Cost	(Repaym	ont of		N1811
14	\$656,070	\$120,500	\$776,570	\$745,322	\$704,862	\$0	\$704,862	\$40,461	•	Louind		lai Fiuje		nepayin		LEase +	
15	\$671,757	\$124,200	\$795,957	\$763,962	\$722,490	\$0	\$722,490	\$41,472		Servic	e) of \$´	11.5M					
16	\$687,833	\$128,016	\$815,849	\$783,089	\$740,578	\$0	\$740,578	\$42,511			φ) οι φ						
17	\$704,305	\$131,950	\$836,255	\$802,710	\$759,134	\$0	\$759,134	\$43,576		• Doe	es not inc	lude addit	ional City s	taff adminis	trative c	osts, City s	site
18	\$721,186	\$136,006	\$857,192	\$822,843	\$778,174	\$0	\$778,174	\$44,669		pre	paratory of	costs, or p	roject cont	ingency cos	ts.		



NORESCO's Proposed Project Costs and Expected Savings Summary

NORESCO's – Investment Grade Audit (IGA) Results

ECM	ECM Opportunity	ECM Cost	Year 1 Guaranteed Utility Savings	Year 1 O&M and Option E Tariff Savings	Total Savings
1a,b	Interior and Exterior LED Upgrades	\$1,818,832	\$246,335	\$48,475	\$294,810
1d	Smart City Lighting Controls Pilot	\$94,015	\$0	\$0	\$0
1e	Street Light Upgrades, Design Phase	\$100,577	\$0	\$0	\$0
2a	PV Generation Systems	\$4,366,806	\$136,064	\$0	\$136,064
2b	Electric Vehicle Charging	\$643,045	\$10,985	\$0	\$10,985
За	Chiller Replacements	\$1,114,626	\$24,390	\$32,924	\$57,314
3c	HVAC Controls Updates	\$50,184	\$21,932	\$0	\$21,932
3d	HVAC Duct Sealing	\$58,139	\$2,893	\$0	\$2,893
3e	SCADA Historian Upgrade	\$106,850	\$0	\$0	\$0
3f	Pool Pump VFDs	\$105,117	\$12,465	\$0	\$12,465
4a	Plumbing Upgrades, M&V Only	\$0	\$5,216	\$0	\$5,216
	Totals	\$8,458,191	\$460,279	\$61,264	\$541,679



Estimated Energy Efficiency Project Cost

Cost	NORESCO's Estimated Project Cost	Total Estimated Costs to be Financed	Variance
Energy Services Agreement (NORESCO): ECM 1-4	\$8,458,191	\$8,458,191	-
Measurement & Verification (M&V) costs	27,137	104,046	77 , 609 ⁽¹⁾
Allowance for Temporary AC and Generator at City Hall and Library (only if needed)	70,000	70,000	-
Consultant Fee (Allie Bridge Energy Solutions)	150,000	115,000	(35 , 000) ⁽²⁾
City Staff (Project Management, etc.)	40,000	40,000	-
City Performed Preparatory Work	10,000	10,000	-
Project Contingencies	30,000	30,000	-
Financing Cost of Issuance	60,000	75,000	15,000 ⁽³⁾
Capitalized Interest	-	\$227,763 ⁽⁴⁾	\$227 , 763 ⁽⁴⁾
Total	\$8,845,328	\$9,130,000	\$285,372
(1) NORESCO Costing included only Year 1 of M&V Financing Cost includes M&V for total of 5 years	zed interest refers to interest that is fund	led from the Financing	

(2) Reflects updated estimate for Consultant Fee.

(3) Financing Cost of Issuance includes estimated cost for municipal advisory, bond counsel, and City Attorney costs

(4) Reflects estimated amount for capitalized interest

Note: Capitalized interest refers to interest that is funded from the Financing proceeds and is typically used to pay debt service during construction.



Good Faith Estimates

Energy Efficiency Financing Summary*						
Par Amount	\$9,130,000					
True Interest Cost	2.6%					
Issuance Costs	\$75,000					
Net Proceeds Amount	\$8,827,237					
Total Payments**	\$11,972,281					
* Reflects Good Faith Estimates; Preliminary, subject to change.						
** Total Payments includes estimated interest.						



It is recommended that the City Council approve and:

- Adopt the following resolution RESOLUTION NO. 2021-XX RESOLUTION OF THE CITY COUNCIL OF THE CITY OF FULLERTON, CALIFORNIA, AUTHORIZING THE SELECTION OF A LENDER; AUTHORIZING THE PREPARATION, NEGOTIATION, EXECUTION AND DELIVERY OF AN EQUIPMENT LEASE AGREEMENT TO FINANCE CERTAIN ENERGY EFFICIENCY EQUIPMENT AND IMPROVEMENTS; AND AUTHORIZING CERTAIN ACTIONS IN CONNECTION THEREWITH
- Authorize necessary appropriation and budget adjustments for debt service payments and project costs.