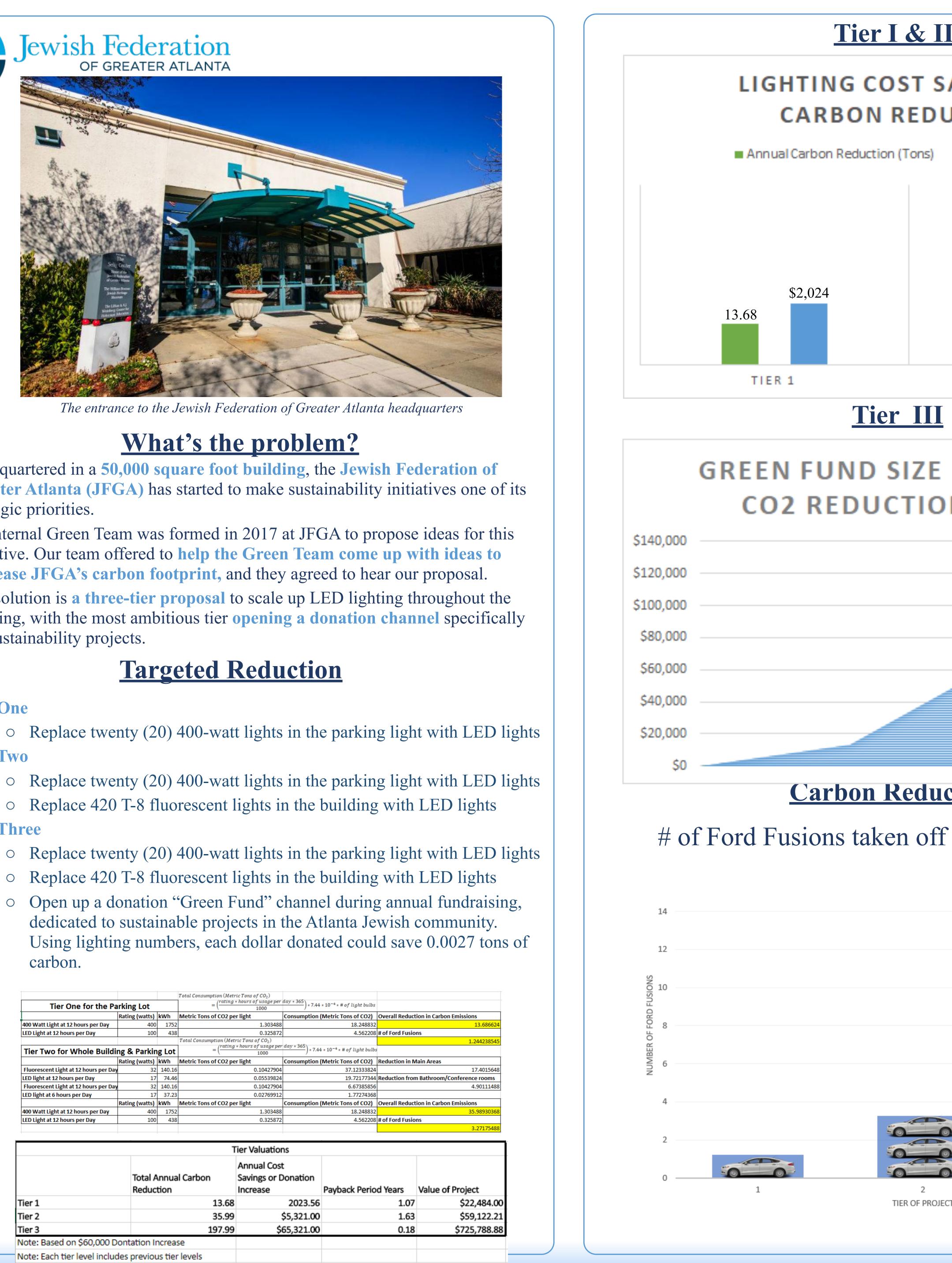
## New LED lights: Going beyond cost savings for the Jewish Federation of Greater Atlanta Naveed Ahmad, Tommy Bledsoe, Josh Partridge, Rob Venturo Scheller College of Business MBA Tier I & II **Co-Benefits** • If JFGA moves forward with Tier 1 or Tier 2, that project can be a **model** for organizations applying to the Green Fund (Tier 3) LIGHTING COST SAVINGS VS • Better interior lighting = better staff productivity CARBON REDUCTION • Benefits beyond cost savings and carbon emission savings Annual Carbon Reduction (Tons) Annual Cost Savings • Improve JFGA's brand equity and reputation \$5,321 • Attract talented individuals to work at JFGA 35.99 conscious individuals \$2,024 13.68 TIER 1 TIER 2 The entrance to the Jewish Federation of Greater Atlanta headquarters **Tier III** What's the problem? • Headquartered in a 50,000 square foot building, the Jewish Federation of GREEN FUND SIZE VS ANNUAL **Current Status** Greater Atlanta (JFGA) has started to make sustainability initiatives one of its CO2 REDUCTION (TONS) • Three site visits, **met with key stakeholders** including: • An internal Green Team was formed in 2017 at JFGA to propose ideas for this \$140,000 350 • Facilities Director – Jerry Smith initiative. Our team offered to help the Green Team come up with ideas to \$120,000 300 decrease JFGA's carbon footprint, and they agreed to hear our proposal. • VP of Atlanta Jewish Foundation – Itai Tsur • Our solution is a three-tier proposal to scale up LED lighting throughout the \$100,000 250 • Development Officer – Ryan Kaplan building, with the most ambitious tier **opening a donation channel** specifically \$80,000 200 • CFO – Marcie Beskind **Targeted Reduction** • **Conducted stakeholder interviews** to discuss impact of our project: 150 \$60,000 • Development-Ryan Kaplan \$40,000 100 • Facilities-Jerry Smith • Replace twenty (20) 400-watt lights in the parking light with LED lights \$20,000 50 Onsite proposal presented to Ryan Kaplan on 4/23/18 • Replace twenty (20) 400-watt lights in the parking light with LED lights **Carbon Reduction** • Replace 420 T-8 fluorescent lights in the building with LED lights 2-3 years • Will seek meeting with CFO to move forward # of Ford Fusions taken off the Road per Tier • Replace twenty (20) 400-watt lights in the parking light with LED lights • Replace 420 T-8 fluorescent lights in the building with LED lights **Final Proposal** • Open up a donation "Green Fund" channel during annual fundraising, dedicated to sustainable projects in the Atlanta Jewish community. Using lighting numbers, each dollar donated could save 0.0027 tons of carbon. • Allocate for Tier I and Tier II renovations in 2018-2019 fiscal year facilities budget. • Pilot the Green Fund during the 2018 fundraising season. Send donate to the Green Fund. • Monitor donations received for pilot Green Fund. If significant





- strategic priorities.
- for sustainability projects.

• Tier One

- Tier Two
- Tier Three

			Total Consumption (Metric Tons of CO <sub>2</sub> )		
Tier One for the Parking Lot			$= \left(\frac{rating * hours of usage per}{1000}\right)$	day * 365) * 7.44 * 10 <sup>-4</sup> * # of light bulbs	
	Rating (watts)	kWh	Metric Tons of CO2 per light	Consumption (Metric Tons of CO2)	<b>Overall Reduct</b>
400 Watt Light at 12 hours per Day	400	1752	1.303488	18.248832	
LED Light at 12 hours per Day	100	438	0.325872	4.562208	# of Ford Fusio
			Total Consumption (Metric Tons of CO <sub>2</sub> )		
Tier Two for Whole Building & Parking Lot			$= \left(\frac{rating * hours of usage per}{1000}\right)$	day * 365) * 7.44 * 10 <sup>-4</sup> * # of light bulbs	
	Rating (watts)	kWh	Metric Tons of CO2 per light	Consumption (Metric Tons of CO2)	Reduction in N
Fluorescent Light at 12 hours per Day	32	140.16	0.10427904	37.12333824	
LED light at 12 hours per Day	17	74.46	0.05539824	19.72177344	<b>Reduction from</b>
Fluorescent Light at 12 hours per Day	32	140.16	0.10427904	6.67385856	
LED light at 6 hours per Day	17	37.23	0.02769912	1.77274368	
	Rating (watts)	kWh	Metric Tons of CO2 per light	Consumption (Metric Tons of CO2)	<b>Overall Reduct</b>
400 Watt Light at 12 hours per Day	400	1752	1.303488	18.248832	
LED Light at 12 hours per Day	100	438	0.325872	4.562208	# of Ford Fusio
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Tier Valuations				
	Total Annual Carbon Reduction	Annual Cost Savings or Donation Increase	Payback Period Years	
Tier 1	13.68	2023.56	1.07	
Tier 2	35.99	\$5,321.00	1.63	
Tier 3	197.99	\$65,321.00	0.18	
Note: Based on \$60,000 Don	tation Increase			
Note: Each tier level includes	previous tier levels			



• Increase donations; expand the donor pool to include green-

allocations process.

• Tier I and II can be implemented if payback period is between

communications to current donors announcing the pilot, and include fields on JFGA's website and in its mailings for individuals to elect to

contributions occur, this would signal to JFGA that the Green Fund provides value to its donor community and could be built into its yearly