

Before



After



CITY OF POUGHKEEPSIE

LED STREET LIGHTING PROJECT UPDATE

November 16, 2015

Project Status – Phase 1

Phase 1 – Rate C Lights (City owned)

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- ❑ Construction has begun and is progressing well
- ❑ The Phase 1 project includes:
 - ❑ LED Conversion of Rate C Lights (City owned and maintained)
 - ❑ LED Conversion of Traffic Signals
 - ❑ Funds for City to purchase Rate A Lights (CHG&E owned and maintained)
- ❑ Approved Phase 1 Project Cost = \$3.18 million (includes purchase of Rate A lights from CHG&E)
- ❑ Phase 1 First Year Savings = \$184,902 (from Rate C lights & Traffic Signals)



Construction Status – Phase 1

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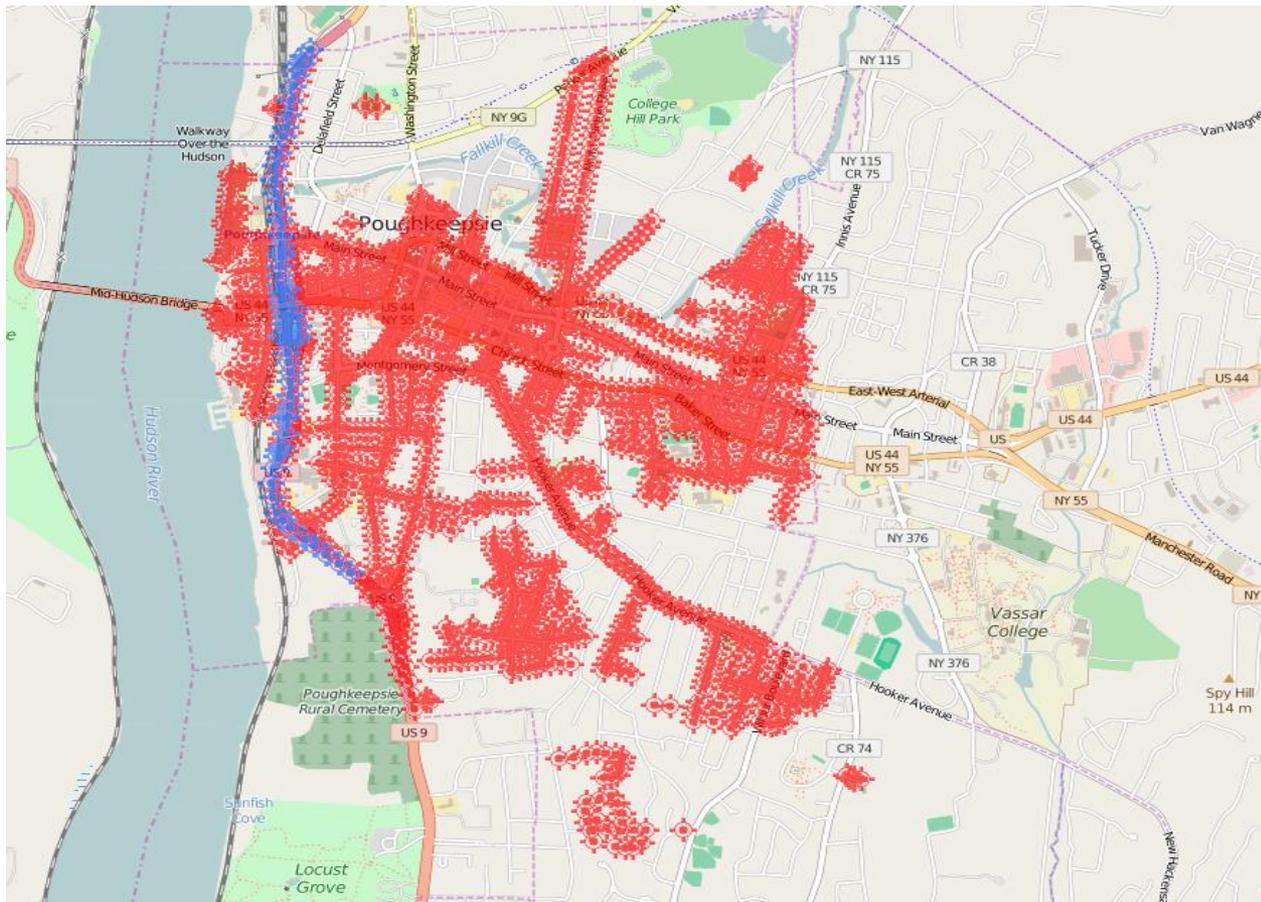
- Currently upgrading Route 9 lighting



Construction Status – Phase 1

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- GIS Map of City Street Lighting as of 11/6/2015
 - ▣ Blue points denote installed lights

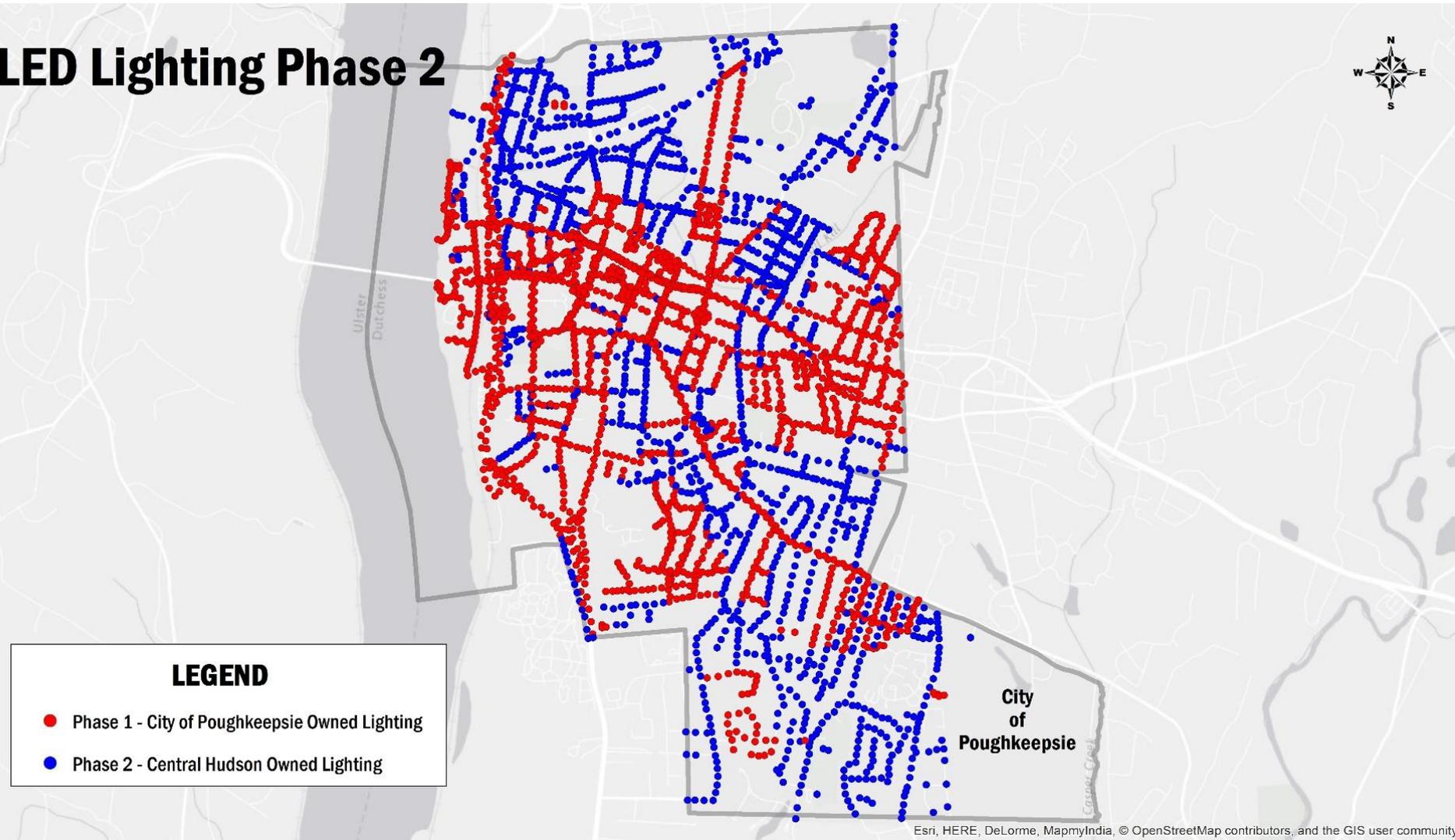


Project Status – Phase 2

Map of Rate C (Phase 1) and Rate A (Phase 2)

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LED Lighting Phase 2



Phase 2 - Rate A Lights (CHG&E owned)

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- Rate A Lights are currently owned and maintained by the utility
- LED conversions will happen. Will the financial benefit go to the municipality or the utility?
- Options for Rate A LED conversion:
 - ▣ Lease from utility
 - ▣ Buy-back from utility



Phase 2 – Lease Option for Rate A LED Conversion

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- CHG&E would continue to own and maintain fixtures
 - *CHG&E will convert to LED, but City will continue to pay large utility fees*
- First Year Savings = \$35,351
 - Savings from energy only
- City has no control of fixture selection and color temperature
- City dependent on the utility's schedule/timetable for installation and Maintenance
- City will not receive the full financial benefit of the LED conversion



Phase 2 - Buy-back Option for Rate A LED Conversion

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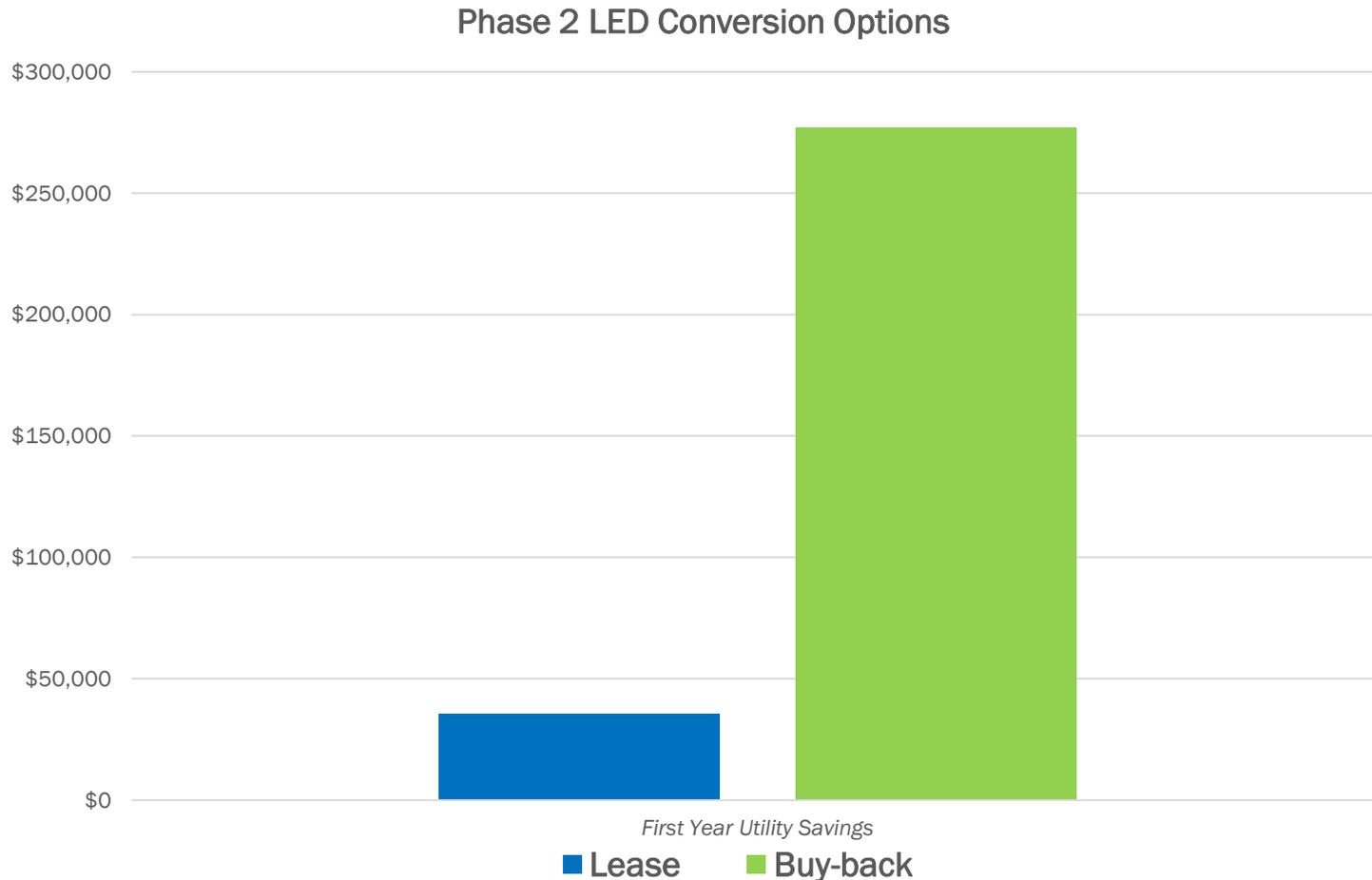
- City to take ownership of Rate A lights from CHG&E
 - ▣ *Funds to purchase Rate A Lights already included in Phase 1*
 - ▣ City will have control of fixture selection and color temperature
- By converting to LED, the First Year Savings = \$276,857
 - ▣ Savings from Energy and Utility Charges
- Phase 2 Project Cost = \$1,138,948 (Cost of LED Conversion)
- Project savings are guaranteed under the energy performance contract
- City will receive the full financial benefit of the LED conversion.



Phase 2 – Savings Comparison: Lease vs. Buy-back

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First Year Utility Savings



Phase 2 - Buy-back Option: NYS Comptroller

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- Office of the New York State Comptroller Street Lighting Cost Containment Report (Included in presentation appendix)

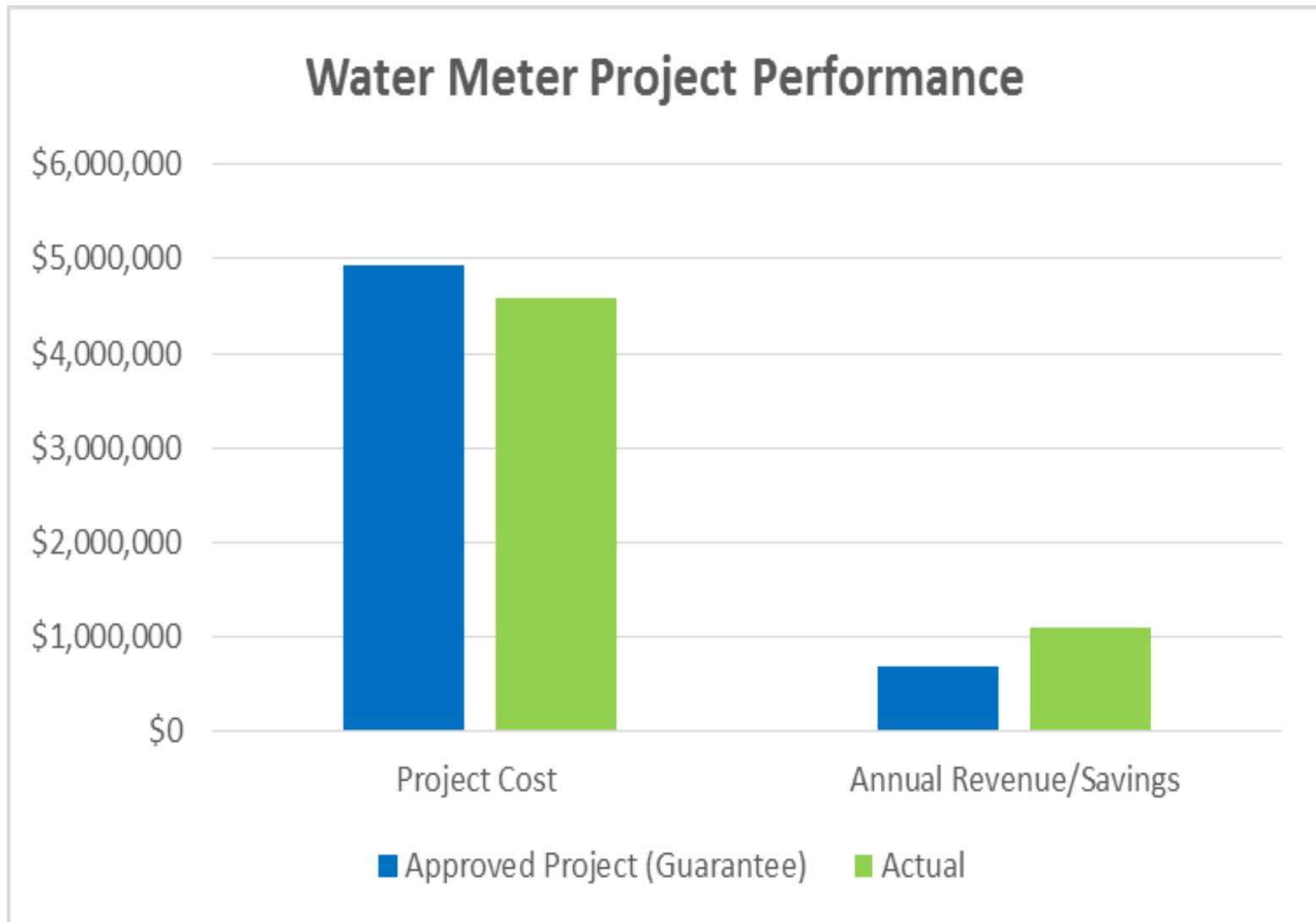
“Based on our analysis.....assuming they financed the purchase of the street lights with 20 year bonds, they could achieve potential aggregate cost savings of over \$13.1 M over the term of the bonds”



Past Results – Water Meter Project

Past Results for EPC Project – Water Meters

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Next Steps

Project Next Steps

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- Council Approval to convert the Rate A lights to LED.
 - ▣ Project Cost = \$1,138,948

- City to execute the Central Hudson attachment & purchase agreements



Questions & Discussions

Thank you.

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