

Section B

Financials

The Albany County Aggregate is comprised of the following seven (7) Participants located in the Capital Region of New York:

1. Village of Altamont
2. Town of Guilderland
3. Town of New Scotland
4. Village of Voorheesville
5. Town of Berne
6. Town of Colonie
7. Albany County

The Albany County Participants are interested in improving their overall energy usage and reducing costs associated with their street lighting systems. To this end, these Participants have elected to replace the existing and inefficient 'cobra head' and decorative street lighting luminaires in their communities with modern, energy efficient LED luminaires. The Participants will include Asset Management Controls on their new street lighting systems. By coming together as an aggregate, the Participants will also benefit from lower construction costs due to economies of scale.

The Participants have elected to participate in the New York Power Authority's (NYPA) Energy Efficiency Program for the purchase of approximately 5,330 streetlights from the utility, National Grid. This includes 5,254 HID luminaires, and 76 LED luminaires. Note that these and all quantities listed in this report are representative of Participants 1 through 7.

The scope of work for this project shall include buying 5,330 streetlight luminaires from National Grid and replacing approximately 5,254 inefficient HID luminaires with new LED luminaires. The remaining existing LED luminaires will be left as is (Unless Directed otherwise by the Participant), however, they will have their photocells upgraded to the Asset Management Controls if desired by the Participant. Additionally, the project also includes replacing approximately 43 HID street light luminaires which are owned by the Participants and therefore not part of the buyback from National Grid. See Appendix F.1 "Assumptions & Calculations" of this document for more details.

The Participants have requested for NYPA to provide financing during construction and the purchase of street lights from National Grid. The purchase of the street lights by the Participants will transfer ownership of the street lights to the Participants thus enabling NYPA to implement new LED technology and asset management technology for the street lights.

NYPA has retained the services of Wendel as the Engineer of Record and Construction Manager (Implementation Contractors). This project will be implemented under the design build model.

This Final Design Report provides technical specifications, financial analysis and Draft contractual obligations required to meet the project objectives. The estimated energy savings are presented along with project capital costs.

The intent of this study is to provide the Participants in the Albany County with the information required to make an informed decision regarding the conversion of the aggregates' streetlights to LED and the financial feasibility of purchasing the streetlights currently owned and operated by National Grid. Please refer to the following pages for a summary of the project financials, inclusive of the reports listed below. Note that reports 1.1-1.3 are combined by Participant.

- 1.1 Total Project Summary (1 Per Participant)
- 1.2 Material and Labor Cost Estimate (1 Per Participant)
- 1.3 Incremental Cost Summary (1 Per Participant)
- 1.4 Short Term Financing Summary (1 Per Participant)
- 1.5 Estimated Energy, Utility, & O&M Savings Summary (1 Per Participant)