BOROUGH OF AMBLER
COUNCIL MEETING AGENDA

All matters that are deliberated could result in a vote to take official action.

January 16, 2024
7:00 p.m.

Minutes for Consideration:
December 19, 2023

COMMITTEE REPORTS:

FINANCE & PLANNING
PUBLIC SAFETY
PUBLIC UTILITIES
PARKS & RECREATION
SALARY & PERSONNEL

An executive session will be held at 6:30 for a personnel issue.

Finance & Planning Committee

The Committee meeting was held on January 2, at 7:00pm; Committee Members: Haley Welch – Chair, Karen Sheedy, Lisa Auerbach Elizabeth Iovine.

The Committee will make no recommendations.

The following business will be discussed:

1. The Borough Engineer's report was received.

2. SEPTA will be hosting an open house for the Ambler Station Area Concept Meeting on January 30th at 6:30pm at Borough Hall for input from riders, residents, and businesses about possibility for development of the underutilized areas of the SEPTA train station parking lot. **(attached)**

3. A update was provided on the Storm Water and Hydrant Concerns in Haywood Park.

SEPTA Ambler Station Area Concept Open House

SEPTA will be hosting an open house for the Ambler Station Area Concept to solicit input from riders, residents, and businesses about the possibility of development on portions of the SEPTA train station parking lot.

Date: Tuesday, January 30
Time: 6:30 p.m.
Location: Ambler Borough Hall
131 Rosemary Avenue
Ambler, PA 19002

Please contact planning@septa.org for more information

Public Safety Committee

The Committee meeting was held on January 2, at 7:00pm; Committee members: Amy Hughes – Chair, Jen Henderson, Nancy Roecker Coates and Lou Orehek.

The Committee will make no recommendations.

The following business was discussed:

1. The Police Department report is **attached** .
2. The Community Ambulance report is **attached**.
3. The Fire Department report is **attached**.
4. The Public Works and the Code Enforcement reports were received.

EMERGENCY: DIAL 911
EMAIL: info@amblerambulance.org

BUSINESS: (215) 643-6517
FAX: (215) 643-5212

Excellence in Pre-Hospital Care

COMMUNITY AMBULANCE ASSOCIATION, AMBLER
1414 E. BUTLER PIKE
P.O. BOX 98
AMBLER, PENNSYLVANIA 19002

Ambler Borough Statistics – 2023

Month	Calls in Borough	Total Calls for CAAA
January	56	524
February	45	431
March	48	471
April	48	489
May	60	493
June	65	479
July	40	447
August	54	479
September	51	467
October	72	486
November	71	470
December	61	504
YTD Totals	671	5,740

Serving Ambler Borough, Lower Gwynedd Township
Springfield Township and Portions of Upper Dublin Township

Wissahickon Fire Company
Fire Chief Report
December 2023 (365 days)

Township	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total	%
Ambler	17	17	8	17	18	18	11	14	19	17	15	8	179	31%
Conshohocken				1									1	0%
Horsham	3	1	1		1	1	2	1	1	2		1	14	2%
Lansdale		2											2	0%
Lower Gwynedd	18	17	20	20	24	22	22	32	22	28	24	23	272	47%
Hatboro											1	2	3	1%
Montgomery		1	1	1	1	2	1		1	1	1	1	11	2%
North Wales				1				1				1	3	1%
Plymouth			1	2		2						1	6	1%
Springfield			2										2	0%
Upper Dublin	2	1		3	3	1	3	3	4	1	2	1	24	4%
Upper Gwynedd										1			1	0%
Upper Merion			1										1	0%
Whitemarsh	1	3	1	1		2	5	5	4	3	1	4	30	5%
Whitpain	2	2	2	1	4	2	3	1	3	1	4	5	30	5%
TOTAL	43	44	37	47	51	50	47	57	54	54	48	47	579	100%

Type of Call	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total	%
Accident Standby		2	4	1	1	1	2	1		2	1	3	18	3%
AFA Actual	8	8	5	12	8	9	4	18	19	13	15	11	130	22%
AFA False	10	12	7	5	6	15	17	21	11	10	10	8	132	23%
Appliance					1	1			1		1	2	6	1%
Assist EMS		1		2	1	1						2	7	1%
Assist Police					2		1			2			5	1%
Brush			1		6	1					3		11	2%
Building Investigation	2	2	2						2	1	1		10	2%
CO Detector		2		3	3	3	2	2	1	4	3	4	27	5%
Commercial Bldg	2	1	2	2	1	2	3	3	3	2	4	4	29	5%
Elevator Rescue		1		2	3	2					1	1	10	2%
Fast Team Assist	2			1	2	1						1	7	1%
Gas Odor Inside	2	4	3	5	2	2	1	2	1		1		23	4%
Gas Odor Outside	1	2		1	1	1	1			3	1		11	2%
High Angle Rescue			1										1	0%
LDH Strike Team			1										1	0%
Non Comm Bldg	4	3	3	4	2	3	2	1	7	3	3	5	40	7%
Officer Investigation	3	3	1		3	2	5	2	1	5	2		27	5%
Search			1							1			2	0%
Smoke in area	2			1		1		1	2	1	1		9	2%
Standby	1	1	1	1				2		1	1	1	9	2%
Traffic Unit assist	2	1	2	2	4	2	4	1	2	4		1	25	4%
Trash	1			1	1								3	1%
Vehicle Fire				1	2	1	1	1					6	1%
Vehicle Leaking fuel			1										1	0%
Vehicle Rescue		1	1	2	2		2	2	2	2		2	16	3%
Water Rescue												1	1	0%
Wires	3		1	1		2	2		2			1	12	2%
TOTAL	43	44	37	47	51	50	47	57	54	54	48	47	579	100%

Day of the week	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total	%
Monday	9	2	5	8	9	10	8	7	2	11	2	9	82	14%
Tuesday	6	6	7	2	9	11	7	10	11	10	12	7	98	17%
Wednesday	10	7	3	8	12	3	6	6	11	11	6	3	86	15%
Thursday	2	8	4	5	3	10	7	10	4	3	8	4	68	12%
Friday	2	8	7	6	5	6	3	14	9	6	7	14	87	15%
Saturday	5	7	8	12	9	4	10	8	7	5	7	4	86	15%
Sunday	9	6	3	6	4	6	6	2	10	8	6	6	72	12%
TOTAL	43	44	37	47	51	50	47	57	54	54	48	47	579	100%

Wissahickon Fire Company
Fire Chief Report
December 2023 (365 days)

Attendance	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total	%
Day Calls (M to F 6AM to 6PM)	19	23	15	21	26	31	16	30	26	26	24	26	283	49%
Attendance at Day Calls	254	291	158	221	288	374	132	302	270	317	265	338	3,210	
Average Day Calls	13.4	12.7	10.5	10.5	11.1	12.1	8.3	10.1	10.4	12.2	11.0	13.0	11.3	
Night & Weekend Calls	24	21	22	26	25	19	31	27	28	28	24	21	296	51%
Attendance at N & W Calls	327	316	294	325	306	210	349	328	355	270	318	260	3,658	
Average Night & Weekend	13.6	15.0	13.4	12.5	12.2	11.1	11.3	12.1	12.7	9.6	13.3	12.4	12.4	
Total Calls	43	44	37	47	51	50	47	57	54	54	48	47	579	100%
Total Attendance	581	607	452	546	594	584	481	630	625	587	583	598	6,868	
Average Total Calls	13.5	13.8	12.2	11.6	11.6	11.7	10.2	11.1	11.6	10.9	12.1	12.7	12.0	
Average Fire Attendance 7A	11.2	11.1	10.1	9.7	9.8	9.5	8.0	8.7	9.7	9.3	9.9	10.1	9.8	
Average Fire Attendance 7B	2.3	2.7	2.2	1.9	1.9	2.1	2.2	2.4	1.9	1.6	2.2	2.6	2.2	
Average Fire Attendance	13.5	13.8	12.2	11.6	11.6	11.7	10.2	11.1	11.6	10.9	12.1	12.7	12.0	
Total Drills	4	4	4	4	4	4	4	4	3	5	4	2	46	
Total Drill Attendance	138	135	117	114	114	104	114	114	80	137	130	65	1,362	
Average Drill Attendance	34.5	33.8	29.3	28.5	28.5	26.0	28.5	28.5	26.7	27.4	32.5	32.5	29.6	

January 2023 Training	Reorganization & Equipment Checks, Bloodborne Pathogens, First Aid & CPR recertification, Ambulance equipment review	345 FF hours	In training
February 2023 Training	Hazmat Refresher for 2 nights, Basement Fires, Tour of Jansen Research Facility in Lower Gwynedd	337 FF hours	In training
March 2023 Training	Turnpike Incident Management, Door prop & Equipment check, MSA new air pack review, MSA air pack training along with FF CPR	293 FF hours	In training
April 2023 Training	MSA air pack training. Passport system review, Forcible entry practice, LDH strike team review, Ventilation Prop @ Fire Academy	285 FF hours	In training
May 2023 Training	Water evolutions with trainees, Engine Company Operations, Car fire Prop.	285 FF hours	In training
June 2023 Training	Engine Company Operations, Hoarding Awareness, Mapbook knowledge, Water rescue review	260 FF hours	in training
July 2023 Training	Vehicle Rescue refresher, Equipment check, New Goddard School tour, Interior Firefighting @ Abington.	285 FF hours	In training
August 2023 Training	Forcible Entry, Storm Prepardness, Handline Operations, Water Rocket Contest at Station 88, Ladder 7 breakdown.	285 FF hours	In training
September 2023 Training	Burn Drill @ MCFTA, Skill Stations, Equipment check	200 FF hours	In training
October 2023 Training	Fire Prevention Activities, Fort Washington Fire Company Expo, Communications Exercise, Tanker Operations Awareness, Clean up	342 FF hours	In training
November 2023 Training	Springhouse Estates Drill & Tour, Gwynedd Mercy Elementary Tour, Christmas parade cleanup of apparatus	325 FF hours	In training
December 2023 Training	RIT pack training, EV plug training, Winch Awareness training.	163 FF hours	In training
		3,405	Total training hours

Wissahickon Fire Company
Fire Chief Report
December 2023 (365 days)

Count of Alarm 2023								
Hour of Day	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
0	3	3		2	1	2	5	16
1	4		3			1	1	9
2	1	3		2		3	3	12
3	1	1	1	5	1		2	11
4	2		1				1	4
5	2	1	3			1	2	9
6	3	3	1	5	1	3	2	18
7	8	2	1	2	2	3	1	19
8		4	6	5	5	7	5	32
9	5	6	9	4	6	7	4	41
10	4	6	5	5	4	6	5	35
11	2	5	6	6	6	5	3	33
12	2	6	5	7	3	5	2	30
13	4	3	9	7	6	4	4	37
14	5	5	6	5	5	2	4	32
15	1	3	5	5	8	3	7	32
16	2	6	6	6	5	5	9	39
17	7	4	4	2	3	3	3	26
18	2	3	6	3	2	5	2	23
19	3	4	8	2	4	3	7	31
20	3	4	8	4	1	5	7	32
21	4	5	3	2	3	7	4	28
22	3	2	1	7	2	3	3	21
23	1	3	1			4		9
Grand Total	72	82	98	86	68	87	86	579

Public Utilities Committee

The Committee meeting was held on January 2, at 7:00pm; Committee Members: Karen Sheedy -Chair, Haley Welch , Amy Hughes and Lou Orehek.

The Committee will consider the following recommendations.

1. Bids were requested from Co-Stars for the UV system upgrade at the Waste Water Plant. The bid for equipment and accessories was received from Kappe Associates, Inc, breakdown is as follows TROJAN TECHNOLOGIES, London, ON for $ 643,900.00 for the new ultraviolet disinfection equipment .and SWF Industrial, Wrightsville, PA for $91,200.00 for the metal canopy. The Equipment Total: $ 735,100.00. **(attached)** The bid for installation will be received in the coming weeks.

The following business was discussed:

1. The WWTP Engineer's report was received

2. System flushing has begun; locations are posted on the Borough Website.

2. Dennis Rowan would like to make a presentation on the Community Choice Aggregation (CCA) for PA Program at the February 8, committee meeting.**(attached)**

Recommendations

1. Recommend awarding the UV system upgrade bid at the Waste Water Plant for equipment and accessories to Kappe Associates, Inc, for the following: TROJAN TECHNOLOGIES, London, ON for $ 643,900.00 for the new disinfection equipment .and SWF Industrial, Wrightsville, PA for $91,200.00 for the metal canopy.
   The Equipment Bid Total: $ 735,100.00.

KAPPE ASSOCIATES INC.®
since 1946

Kappe Associates, Inc.
335 Main Street
Emmaus, PA 18049

(215) 361-5700 Office
(215) 361-5107 Fax
Email: jmoyer@kappe-inc.com
Web: www.kappe-inc.com

Date: January 11, 2024

To: Borough of Ambler
Wastewater Treatment Plant
Montgomery County, PA
Attn: Jarrett Evans, Superintendent

Engineer: Anthony Price, PE
EEMA, Inc.

Project: *UV Disinfection System Replacement*
Trojan Technologies & SWF Industrial

In accordance with the PA COSTARS procurement program, we are pleased to offer the following proposal for equipment and construction activities for your consideration for the UV Disinfection System Replacement project. Note, the final construction activity pricing has not been finalized. Once finalized, we will provide a revised and FINAL Costars proposal for execution.

Kappe Associates, Inc. (KAI) is a Registered Supplier of the Pennsylvania State Sponsored COSTARS PROCUREMENT PROGRAM. KAI is the authorized dealer in The State of Pennsylvania for *Trojan Technologies UV Disinfection System Equipment & SWF Industrial Construction Components*, and as such Kappe Associates, inc. is authorized to do business and sales with COSTARS MEMBERS.

Kappe Associates, Inc COSTARS CONTRACT NO. 016-E23-310

Borough of Ambler COSTARS MEMBER NO. _____

TROJAN TECHNOLOGIES, London, ON

One (1) Ultraviolet Disinfection Equipment, Trojan UV Signa System, Three (3) Bank System, System Control Center, Power Distribution Center, Hydraulic System Center, 304 Stainless Steel Weir Trough Structure, Level Sensors

& Control box, Flow Conditioner Plate, Spare Parts, Freight, Start-up, and Operator Training

** Refer to attached Trojan Technologies Scope of Supply #234986, dated July 31, 2023, consisting of 6 pages.*

CoStars Price (Equipment)..... $ 643,900.00
- (Kappe Associates, Inc. Costars Vendor #165812)

SWF Industrial, Wrightsville, PA

One (1) Construction Components for Metal Canopy, 22'-2" x 59'-0", Columns, Beams, Base Plates, Beam framing, C-Purlins, Roof Decking, Misc. Materials

One (1) PE Engineered calculations and submittal package

CoStars Price (Equipment)..... $ 91,200.00
- (Kappe Associates, Inc. Costars Vendor #165812)

Equipment Total: $ 735,100.00

COSTARS CONSTRUCTION ACTIVITIES

One (1) Complete Turnkey Installation of Trojan UV System and SWF Construction Components & necessary ancillary equipment. Installation to include civil, mechanical and electrical work along with concrete channels and grating and handrail modifications. Work to include Installation of supplied equipment as outlined in the project requirements (Plans and Specifications) provided by the Owner's Engineer (EEMA), December, 2023. Bonding, Insurance and PA Prevailing Wage requirements are included.

The following work is based on Constuction Drawings D-1, S-1, S-2, M-1, M-2, E-1 and E-3. Included but not limited to:
- Demo of Concrete Walls & Corners per D-1
- New UV Reinforced Concrete Channel Walls and Slabs per S-1
- Clean Stone Infill as required
- New Reinforced Concrete at Tank Corners for Canopy per S-1
- Installation of Misc Steel per S-2 including Alum Grating & Supporting Beams including I-Bar and Ventilated Deck Plate

- *Installation of SS Plates to Cover Exist. Wall Penetrations per S-1*
- *Installation of SWF Construction Components for Metal Canopy as shown on Drawing S-1 & S-2*
- *Receive, Unload and Store Trojan UV Equipment. Laydown areas to be approved by Owner*
- *Mechanical Installation of Trojan UV Equipment*
- *Installation of Level Control Weir Structure in new channel*
- *Electrical Installation of Trojan UV Equipment per E-1, E-2 & E-3 including required conduit, wiring and switches*
- *Install four (4) motorized operators for UV System*
- *Install two (2) gates for UV System*
- *Mounting of Control Panels, Conduit and Wire for UV Power Distribution Center, System Control Center, Hydraulic System Center, Level Sensor Control Box, Ethernet/IP Communication, Meter, Low Level Sensor, Motorized Actuators & Disconnect Switches*
- *Provide and Install NEMA 3R Disconnect Switches for Equipment*
- *Third Party Testing of New Concrete*

Insurance & Bonding: As part of the administrative requirements of this Proposal Agreement, Bonds and Insurances detailed in the Administrative Requirements provided as part of the Costars Installation Proposal Request package dated December 2023 will be provided to the Owner and Engineer for review no later than 14 days prior to mobilization.

KAI agrees to provide insurance certificates to the Owner prior to construction activity commencing that will list Owner and Engineer as additionally insured.

All Subcontractors performing work on site shall also be required to provide insurance certificates listing Owner and Engineer as additionally insured.

All Construction activities to be coordinated with the Owner. PA Prevailing Wage Rates are included per project requirements. Copies of certified payrolls will be submitted to the Owner for their records.

EXCLUSIONS:

Engineering or permitting
Upstream and Downstream Hydraulic calculations
**** Per Engineer, Downstream Weirs will surcharge at approx. 24 MGD***
Permitting fees
SCADA Work of any kind including connections & testing
Programming of Existing PLCs

CoStars Price (Construction Activity)..... $ To be finalized
- (Kappe Associates, Inc. Costars Vendor #165812)

An Owner provided Purchase Order written out to "Kappe Associates" OR a Signed Proposal from the Owner is acceptable to place order. POs should reference this proposal.

PROJECT BILLING SCHEDULE- Net 30 Days

EQUIPMENT

20%- Approved Submittals
75%- Equipment Delivery
5%- After Successful Startup of Equipment

CONSTRUCTION ACTIVITY

Billed on a progress basis. Monthly Invoices reviewed and agreed upon with project Engineer.

This is a COSTARS procurement project. The "**TERMS AND CONDITIONS FOR COSTARS PROCUREMENTS**" listed below are incorporated into this contract.

TERMS AND CONDITIONS FOR COSTARS PROCUREMENTS

This contract is a COSTARS procurement and therefore subject to all of DGS' COSTARS Contract Special Terms and Conditions that are in effect as of the effective date of this contract and are incorporated herein by reference and form a part of this contract. Additionally, all of DGS' COSTARS Contract "Standard Terms and Conditions" in effect as of the effective date of this contract are incorporated herein by reference form a part of this contract.

In specific response to the Purchaser's procurement, project-specific and equipment-specific specifications have been developed by and/or for the Purchaser. These project-specific and equipment-specific specifications are additional terms and conditions of this contract and when this document is executed by the Purchaser, it shall constitute the Purchaser's "Purchase Order."

The inclusion of any terms, conditions or "separate specifications" inconsistent with COSTARS is not intended to alter or proposed to alter the requirements of a COSTARS contract and shall be specifically excluded from the contract.

Please contact our office as necessary. Thank you.

Respectfully Submitted, Kappe Associates

Accepted this ___ day of

By:_____

Title:_____

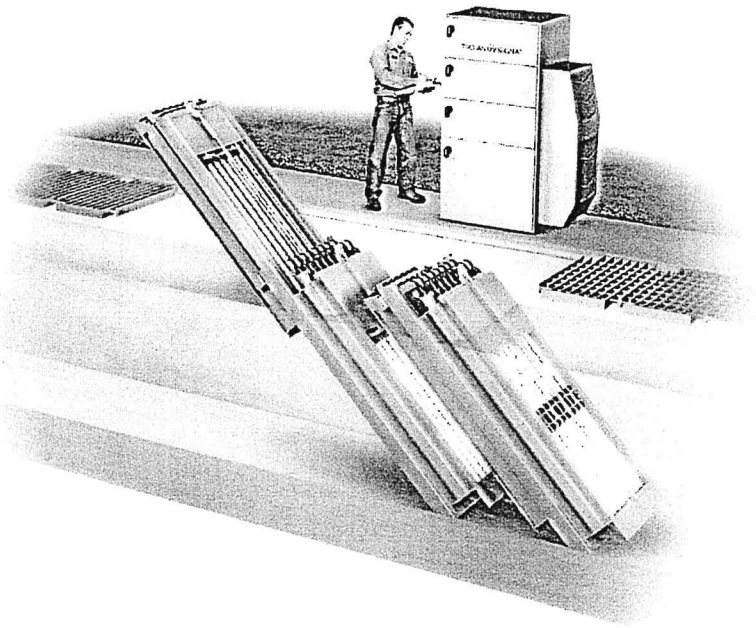
Submitted By:

By:_____
James W. Moyer, PE

For: Kappe Associates, Inc.

TROJANUVSIGNA™

PROPOSAL FOR AMBLER UPGRADE, PA
QUOTE: 234986
01/11/2024



TrojanUVSigna™ incorporates revolutionary innovations, including TrojanUV Solo Lamp™ technology, to reduce the total cost of ownership and drastically simplify operation and maintenance. It is the ideal solution for facilities wanting to upgrade their disinfection system easily and cost-effectively.

We are pleased to provide the enclosed TrojanUVSigna proposal. Please do not hesitate to contact us if you have any questions regarding this proposal. We look forward to working with you.

With best regards,

John Faber

3020 Gore Road
London, Ontario N5V 4T7
(519) 457 – 3400 ext. 2389
jfaber@trojantechnologies.com

Local Representative:

Jim Moyer
Kappe Associates
215 361 5700
jmoyer@kappe-inc.com

DESIGN CRITERIA

Peak Design Flow:	**30 MGD**
UV Transmittance:	**65%** (minimum)
Total Suspended Solids:	**20 mg/l** (30 Day Average)
Disinfection Limit:	**200 Fecal Coliform per 100 ml** (30 Day Geometric Mean)

DESIGN SUMMARY

CHANNEL (Refer to Trojan layout drawing for complete details)	
Number of Channels:	**1**
Minimum Channel Length Required:	**35 ft**
Channel Width at UV Banks:	**5.1 ft**
Channel Depth Recommended:	**7.8 ft**
UV BANKS	
Number of Banks per Channel:	**3**
Number of Lamps per Bank:	**22**
Total Number of UV Lamps:	**66**
Maximum Duty Power Draw:	**69.5 kW**
UV Bank Headloss at Peak Flow:	**5.5 in**
UV PANELS	
Power Distribution Center Quantity:	**1**
Hydraulic System Center Quantity:	**1**
System Control Center Quantity:	**1**
ANCILLARY EQUIPMENT	
Level Controller Quantity and Type:	**1 - Fixed Serpentine Weir Troughs - Included**
Integral Bank Walls:	**Included**
ELECTRICAL REQUIREMENTS	
1. Power Distribution Center requires an electrical supply of one (1) 480Y/277V, 3 phase, 4 wire + GND, 71.2 kVA 2. Electrical supply for Hydraulic System Center will be one (1) 480V, 3 phase, 3 wire + GND, 2.5 kVA 3. Electrical supply for System Control Center will be one (1) 120V, 1 phase, 2 wire + GND, 1.8 kVA 4. Electrical disconnects are not included in this proposal. Refer to local electrical codes	

TROJANUVSIGNA™

COMMERCIAL INFORMATION

Total Capital Cost: $677,790.00

This price excludes any taxes or duties that may be applicable.
Standard equipment warrantees and start up by Trojan-certified technicians are included.

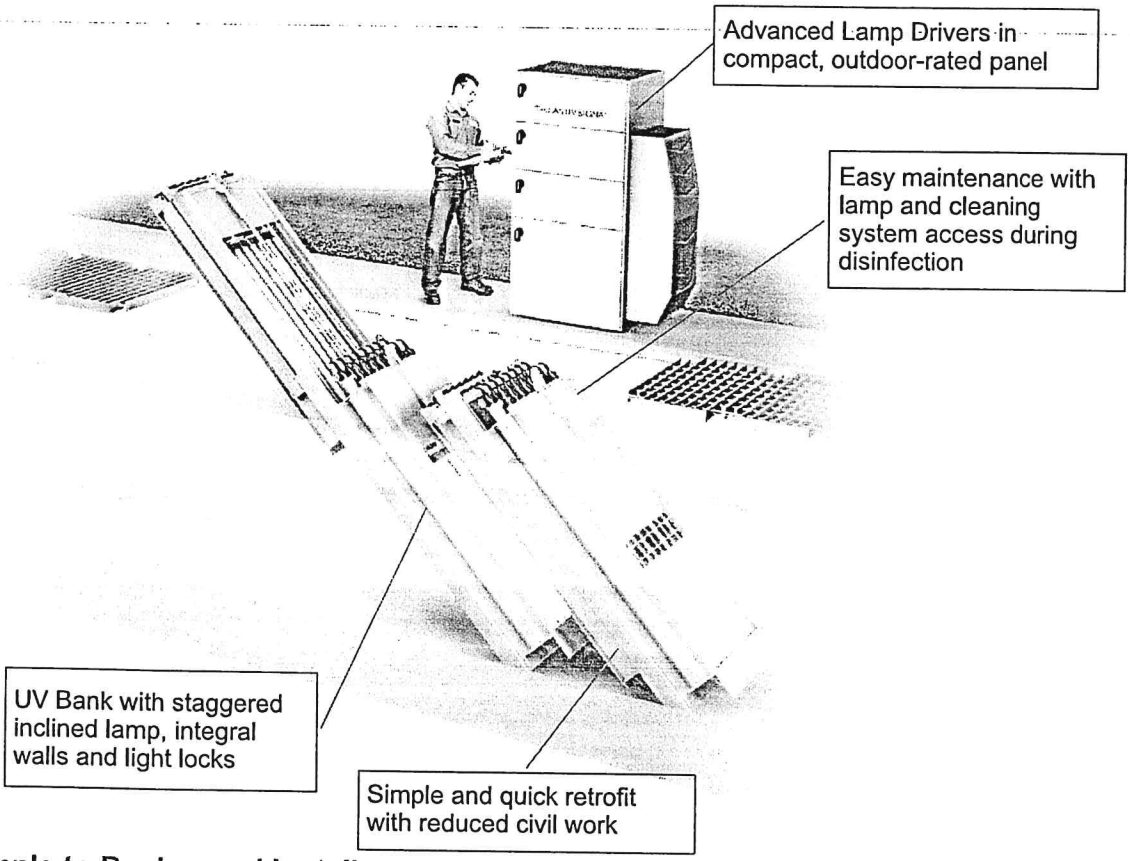
Easy and Cost-Effective Maintenance

- The 1000 watt TrojanUV Solo Lamp combines the benefits of both low pressure and medium pressure lamps
- Fewer lamps, long lamp life and easy change-outs save time and money
- Lamp change-outs and cleaning solution replacement are done while the UV system is in the channel – minimizing downtime and simplifying maintenance
- Routine maintenance can be performed while banks are in the channel, but an Automatic Raising Mechanism (ARM) makes other tasks, such as winterization, simple, safe and easy
- Lamp plugs with LED status indicators and integral safety interlock prevent an operator from accidentally removing an energized lamp
- ActiClean WW™ chemical/mechanical cleaning system to keep sleeves clean during operation

TROJAN UV SIGNA™

SYSTEM OVERVIEW

SOLO LAMP TECHNOLOGY



Simple to Design and Install

- Light locks on the UV banks control water level within the channel, reducing dependence on downstream weirs and preventing short-circuiting above the lamp arc
- UV Banks include integral reactor walls to make installation easy and prevent short circuiting at the channel walls
- Stringent tolerances on concrete channel walls are not required – making retrofits simple and cost-effective

Supported by Trojan Technologies

- Trojan Technologies warrants all components of the system (excluding UV lamps) against faulty workmanship and materials for a period of 12 months from date of start-up or 18 months after shipment, whichever comes first.
- UV lamps are warranted for 15,000 hours of operation or 3 years from shipment, whichever comes first. Lamp warranty is pro-rated after 9,000 hours of operation. This means that if a lamp fails prior to 9,000 hours of use, a new lamp is provided at no charge.
- Trojan offers an unparalleled Lifetime Performance Guarantee. The spirit of this guarantee is simple: the Trojan equipment, as sized for the project, will meet the disinfection requirements for the life of the system.

TROJAN UV
WATER CONFIDENCE™

SCOPE OF SUPPLY FOR AMBLER UPGRADE WASTEWATER TREATMENT PLANT
ULTRAVIOLET DISINFECTION EQUIPMENT – TROJANUVSigna™

Prepared for:	Ambler, PA	
Submitted by:	Trojan Technologies	
Trojan Quote:	234986	
Design Criteria:	Peak Design Flow:	30 MGD
	Average Flow:	6.50 MGD
	UV Transmission:	65 % minimum
	Total Suspended Solids	30 mg/L (30 Day Average)
	Minimum Dose:	>30 mJ/cm^2 (proven by independent validation)
	Discharge Limit:	200 Fecal Coliform (30 Day Geometric Mean)

We are pleased to submit the following scope of equipment based on the above criteria.

The purchaser is responsible for reading all information contained in this Supply Contract. Trojan will not be held accountable for the supply of equipment not specifically detailed in this document. Detailed installation instructions are provided with the shop drawings and are available earlier upon request. Changes to this Scope of Supply that affect selling price will be handled through a change order.

Please refer inquiries to Trojan Manufacturer's Representative:

Representative:	Jim Moyer
Rep Firm:	Kappe Associates, Inc.
Phone:	(215) 361-5700
Email:	jmoyer@kappe-inc.com

This proposal has been respectfully submitted by,
Trojan Technologies

John Faber

John Faber
Regional Sales Manager

GENERAL CONFIGURATION

The TrojanUVSigna equipment described in this Scope of Supply consists of 1 channel with 3 UV banks.

Channel Dimensions:	Length:	42 ft
	Width:	5.1 ft
	Depth:	7.8 ft

Note: Dimensions do not include inlet or outlet structures upstream or downstream of the UV channel.

Unless otherwise indicated in this proposal all anchor bolts, conduit, conductors, local disconnects and transformers (if required) are the responsibility of the Installation Contractor and are not included in Trojan's Scope of Supply. Specific cable types listed below are for reference only. Selecting cables that are appropriate for the installation environmental conditions and in compliance with local code is the responsibility of the Installation Contractor.

Site to provide approved (engineered) anchor points for personnel to use as part of their fall restraint system around open channels. The anchor points must be positioned so that the preferred retractable lifeline of 8 ft (2.4 m) is of sufficient length to access the work at the channel. Refer to local safety regulation.

UV BANKS

Trojan's Responsibility:
Each bank supplied will consist of TrojanUV Solo Lamps™, quartz sleeves, supporting structures, ActiClean™ chemical/mechanical cleaning system and an automatic bank lifting mechanism. UV lamps are powered from an individual electric feed from a lamp driver located in a Power Distribution Center (PDC).

Model and Make:	TrojanUVSigna™
Quantity:	Three (3) UV Banks Each bank will be supplied with twenty-two (22) UV lamps and quartz sleeves, one (1) UV intensity sensor, one (1) ActiClean chemical-mechanical wiping system and one (1) automatic bank lifting mechanism
Rating:	Type 6P / IP68 (lamp-sleeve assemblies)
Approximate Weight:	650 lbs (295 kg)

Installation Contractor's Responsibility:
The Installation Contractor shall install, align, secure, and seal (grout) each UV bank and lifting system in the channel per the instructions provided. The Installation Contractor shall provide solid grating downstream of the UV bank to block out UV light. Please refer to the supplied Trojan-supplied drawings for details.

SYSTEM CONTROL CENTER

Trojan's Responsibility:
A System Control Center (SCC) shall be supplied to monitor and control the UV disinfection System. Trojan will provide a PLC I/O and soft address map to aid the Installation Contractor with integration of the UV PLC and SCADA system. Note: if Trojan is required to provide a managed switch in the SCC, the Plant's IT department or System Integrator will be responsible for configuring the switch to meet the Plant's security and traffic routing requirements. The UV SCC shall consist of the following:

Quantity Supplied:	One (1) SCC
Location:	Wall-Mount (by Installation Contractor)
Controller Type:	AB CompactLogix
Operator Interface:	Beijer – Model X2 Extreme - 12" HMI (Outdoor, 4X Rated)
Material / Rating:	304 Stainless Steel (Type 4X, IP 66)
Approximate Weight:	200 lbs (91 kg)
SCADA:	Ethernet IP
Surge Protection:	Not Included

Installation Contractor's Responsibility:
The Installation Contractor to be responsible for mounting the SCC as indicated on the drawings. Unless otherwise indicated, the Installation Contractor to be responsible for the supply, installation and connection of the following at the SCC:

1. One (1) 120V, 1 Phase, 2 Wire + GND, 1.8 kVA
2. One (1) bond link to plant ground, in accordance with applicable codes and standards
3. One (1) Modbus communication link, Belden 3106A (or equivalent), to PDCs (daisy-chained)
4. One (1) Modbus communication link, Belden 3106A (or equivalent), to HSCs (daisy-chained)
5. One (1) Cat 5e Ethernet communication link to SCADA
6. One (1) 4-20 mA analog shielded twisted pair from plant flow meter
7. One (1) 24V DC, 2-conductor + GND power to the Level Sensor Monitor
8. One (1) 4-20 mA analog shielded twisted pair from the Level Sensor Monitor

POWER DISTRIBUTION CENTER

Trojan's Responsibility:
The Power Distribution Center (PDC) distributes power to the UV lamps and shall consist of the following:

Quantity Supplied:	One (1) PDC
Method of Cooling:	Air-conditioning
Material / Rating:	304 Stainless Steel
Approximate Weight:	Double Wide Panel – 1600 lbs (726 kg)

Installation Contractor's Responsibility:
The Installation Contractor to be responsible for setting in place and bolting the PDC in location. The Installation Contractor to be responsible for the supply, installation and connection of the following at the PDC:

1. One (1) 480Y/277V, 3 phase, 4 wire + GND, 75.8 kVA, 92 A power feed with local disconnect to PDC
2. One (1) bond link to plant ground, in accordance with applicable codes and standards (to underside of panel)
3. One (1) bond link from each UV bank to the corresponding PDC in accordance with the applicable drawings, specifications, codes, and standards
4. One (1) bank-in-place sensor cable (by Trojan) from each UV bank to corresponding PDC
5. One (1) UV intensity sensor cable (by Trojan) from each UV bank to corresponding PDC
6. One (1) Modbus communication link, Belden 3106A (or equivalent), from the SCC
7. One (1) discrete, 2-conductor, cable from level sensor control box for low water level signal
8. Installation and termination of lamp cables from the UV banks to each PDC. (Qty: 22 per UV Bank – supplied by Trojan)

HYDRAULIC SYSTEM CENTER

Trojan's Responsibility:
The Hydraulic System Center (HSC) houses the ancillary equipment required to operate the quartz sleeve cleaning system and automatic bank lifting mechanism.

Quantity Supplied:	One (1) HSC
Materials / Rating:	304 Stainless Steel (Type 4X, IP 66)
Hydraulic Fluid:	Mineral Oil
Approximate Weight:	500 lbs (228 kg)

Installation Contractor's Responsibility:
The Installation Contractor shall be responsible for setting in place and bolting the HSC's as shown on the Trojan drawings. The HSC's must be located within 50 ft (15 m) of the furthest PDC. The Installation Contractor shall be responsible for the supply, connection and installation of the following at HSC:

1. One (1) 480V 3 phase, 3 wire + GND, 2.5 kVA power feed with local disconnect
2. One (1) bond link to plant ground, in accordance with applicable codes and standards
3. One (1) Modbus communication link, Belden 3106A (or equivalent), from the SCC
4. Cut and crimp hydraulic hoses (hoses and connections supplied by Trojan)
5. Connection of the hydraulic hoses, total of four (4) per UV bank

WATER LEVEL CONTROLLER

Trojan's Responsibility
A level control device is required to maintain and control the effluent level in the channel regardless of flow rate.

Quantity Supplied:	One (1) Fixed Weir Trough Structure
Material of Construction:	304 Stainless Steel
Effective Weir Length:	1848 inches effective crest length

Installation Contractor's Responsibility:
The Installation Contractor to be responsible for setting in place, bolting, grouting and sealing each level control weir trough as per Trojan's and Engineer's drawings.

LOW WATER LEVEL SENSORS

Trojan's Responsibility:
A Low Water Level Sensor is required downstream of the UV System to generate a low water level signal that will shut down and protect the UV System if the water level in the channel drops too low.

Quantity Supplied:	One (1) water level sensor
Approximate Weight:	10 lbs (22 kg)

Installation Contractor's Responsibility:
The Installation Contractor to be responsible for setting in place and bolting the water level sensor panel to the effluent channel wall as per Trojan's and Engineer's drawings.

LEVEL SENSOR CONTROL BOX

Trojan's Responsibility:
Trojan will provide a wall mounted Level Sensor Control Box 24 x 14 x 6 in (61 x 36 x 15 cm) to provide power and relays for low level sensor.

Quantity Supplied:	One (1) Level Sensor Control Box
Materials / Rating:	304 Stainless Steel (Type 4X)
Approximate Weight:	40 lbs (18 kgs)

Installation Contractor's Responsibility:
The Installation Contractor to be responsible for mounting the Level Sensor Control Box as indicated on the drawings. The Installation Contractor shall also be responsible for supplying mounting hardware, watertight conduit and for the supply, installation and connection of the following at the Control Box:

1. One (1) 120 V, 1 phase, 2 wire + GND, 72 VA power supply
2. One (1) discrete, 2 conductor cable from the Low-Level Sensor to the level sensor control box
3. One (1) discrete, 2 conductor cable from the level sensor control box to each PDC

FLOW CONDITIONER PLATE

Trojan's Responsibility:
In order to ensure a more even flow distribution to the UV System, a flow conditioner plate will be supplied and installed upstream of the UV equipment. Please note the additional headloss created by this plate is 2.13 inches at peak flow.

Material of Construction:	304 Stainless Steel
Approximate Weight:	250 lb
Anchor Bolts Req'd:	12 - 3/8" dia x 4" long / Plate

Installation Contractor's Responsibility:
Contractor shall be responsible for mounting L-frames to channel walls.

SPARE PARTS AND ADDITIONAL EQUIPMENT

Trojan's Responsibility:
The following equipment will be supplied with the UV system:

Description	Quantity
UV Lamps	4
Quartz Sleeves	1
UV Driver / Ballast	1
Wiper Seals	10
Operator Kit	1

DOCUMENTATION (SHOP DRAWINGS AND O&M MANUALS)

The following documentation will be supplied by Trojan per the following schedule:

- One (1) electronic copy of Trojan Shop Drawing Submittals 4 - 6 weeks after receipt of written purchase order (hardcopies available upon request)
- One (1) electronic copy of Trojan Standard O&M manuals at time of equipment delivery (hardcopies available upon request)

DELIVERY, START-UP AND TRAINING

- Equipment shipped 36 - 38 weeks after approval of Shop Drawings.

Installation Contractor's Responsibility:
The Contractor is responsible for:

- Unloading of the components supplied by Trojan, storage of all components, if required in a clean dry environment.
- Installing the equipment outlined in the scope of Supply in accordance with contract drawings, Trojan's shop drawings, instructions and installation checklist.
- Supplying all conduits and conductors and components per the sites state regulations and components indicated as supplied by others,
- Completing the Checklist and returned at least two (2) weeks prior to date requested for commissioning.

The following start-up services will be provided by Trojan-certified technicians:

- Installation assistance as required by phone or fax. Technical Assistance Center 1-866-388-0488 or tac@trojanuv.com
- Start-up and testing of the installed UV equipment.
    - If the Trojan's Certified Service Technician determines the Contractor work is not complete and the start-up cannot be completed in the allotted time a return visit will be scheduled at the Contractors expense.
- Classroom and/or jobsite training for operations staff
    - If trainees are not available a return visit will be scheduled at the Contractors expense.

WARRANTY

Trojan will warrant the equipment and parts for 12 months after start-up or 18 months after shipment, whichever comes first. Refer to attached Terms and Conditions for additional details.

- UV lamps shall be warranted for 15,000 hours prorated after 9,000 hours.
- Lamp drivers shall be warranted for 10 years, prorated after 1 year.

Community Choice Aggregation (CCA) for PA

The CCA Borough Model will contribute to protecting local economy, natural resources, and community health

The Power of Community Choice Aggregation (CCA)

CCA enables local governments to choose electricity provider(s) for their constituents, at no cost. With CCA, **PA Boroughs can purchase electricity on behalf of all residents and small businesses** within their jurisdiction. Residents and local businesses can opt-out of the Borough CCA at any time, for free.

CCA will allow PA Boroughs to:

- Accelerate the transition to renewable energy.
- Negotiate the source of energy generation.
- Use bulk buying power to decrease energy cost through the wholesale energy markets.
- Create energy price stability (as opposed to fossil fuel instability).
- Enhance competitiveness and support local clean energy job creation.
- Protect constituents from predatory energy sales practices.

10 States have authorized CCA, generating 2-20% savings nationwide *(source: LEAN[1])*.
When combined with solar, CCA provides more energy price stability and lower pricing, versus what consumers can negotiate on their own. In New York for example, 150+ municipalities representing 3.2 million people have already adopted CCA. And 80-90% of NY residents from opt-out CCA municipalities have been moved to clean energy. In contrast, 1-5% of residents in municipalities without CCA, switch to clean energy.

Pennsylvanians Want More Local Renewable Energy

CCA is featured in: Pennsylvania's Climate Action Plan, Philadelphia's Energy Vision, West Chester Council of Governments Energy Transition Plan, and Pittsburgh's Climate Action Plan as a **"high-value implementable action"** to accelerate renewable energy adoption and protect PA natural resources. The SolSmart Program Guide also encourages local governments to incorporate CCA.

47 PA towns, representing 2.5 million Pennsylvanians have passed **resolutions to use 100% renewable energy** for their facilities and fleets. CCA will enable these *Ready For 100*[2] communities to attain their renewable energy goals, well beyond purchases of renewable power for merely their own municipal facilities.

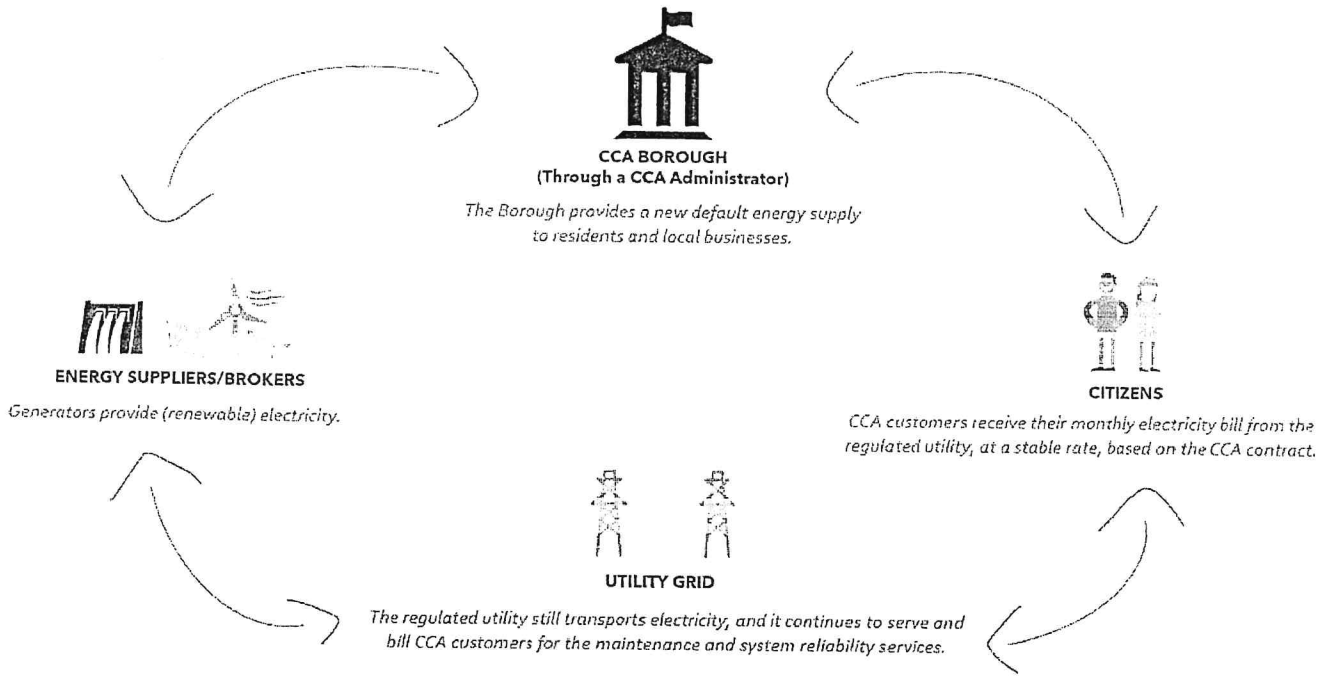
73% of Pennsylvanians support renewable (solar, wind, and hydro) electricity generation.
(Source: Vote Solar Poll Results, 2022)

[1] The Local Energy Aggregation Network (LEAN) is a nonprofit aiming to expand Community Choice Aggregation across the USA.
[2] As part of the Sierra Club's campaign, *Ready For 100* communities signed a local resolution to transition to 100% clean energy.

Pennsylvania Boroughs can currently establish CCA according to *Title 8 of PA General Assembly, Chapter 24A "Manufacture And Supply Of Electricity,"*

> "Boroughs **may,** either singly or jointly, **manufacture or purchase electricity for the use of its inhabitants,** (...) [and] **cooperate with private power companies, other boroughs, electric cooperative corporations and other public or private electric power entities,** (...) **in the development of electric power and energy.** (...) **No person, partnership or corporation may introduce electric current** for light, heat or power purposes, **without the consent of the council,** into the limits of any borough that is furnishing electric current to its inhabitants."

CCA Borough Model



- The relationships between Citizens, Energy Supplier and Utility reflect existing PA's retail choice laws.
- The PA Borough Code authorizes Boroughs to direct the Supplier to procure energy for their citizens' benefit.
- With the support of a qualified CCA Administrator, the Borough conducts a procurement to select an energy supplier(s) to perform a service contract that:
  - *Determines price and service terms for its citizens,*
  - *Gives it the right to help define any local renewable energy projects serving the Borough,*
  - *May offer citizens a variety of added-value clean energy services.*
- The Borough may allow citizens to opt out of its program at any time, at no cost to citizens.

FAQ available on Pages 3 & 4.

CCA can leverage both the Bipartisan Infrastructure Law (BIL) and the Inflation Reduction Act (IRA) allocated to renewable energy, infrastructure deployment, energy efficiency, and so on.

To learn more and explore CCA for your Borough, contact Dennis Rowan at drowan@rowanenergyintegration.com, and watch our last webinar here.

7. **What is the cost to the local government to manage the ongoing CCA program?**
   All administrative costs will be included in the subscribers' rate cost of the CCA option, meaning that the local government does not pay for the management of the CCA program. The more subscribers, the more these costs are amortized.

8. **Will we have to create an "Energy Authority" – a separate entity from the Borough – that handles the procurement negotiation, the billing (or coordination of the billing with PECO), answers questions from residents, creates marketing materials for the program?**
   It is not necessary but Boroughs may decide that this "Authority" is an entity that they want to create, as the program matures. In any event, CCA's funds and performance will need to be clearly accounted for, as a separate "enterprise fund" activity, with clear and public records.

9. **What is CCA for PA asking the Borough to commit to in order to prepare a CCA program proposal for PA Boroughs?**
   Sign a Letter of Intent to participate in the CCA planning process. There is no commitment to move forward with a local CCA program, at this stage.

10. **Is there a safety net for low-income households in case CCA rates are above market rates? Or is the safety net to opt-out?**
    Any resident may opt out of the program, at any time and at no cost. Some CCA contracts **may** also contain guarantees of cost savings versus utility rates, at all times.

11. **Where will the CCA electricity come from? Can the participating Boroughs have input into what "green energy" means, timeline for achieving 100% renewable, cap on rates, subscriber termination fees?**
    Yes, all is negotiable. Boroughs can be involved as much or as little as they would like to be, in every step of the process. CCA for PA intends to work with engaged Boroughs to flesh out a program proposal and introduce discussions with all stakeholders (including PUC, DEP, PECO, Governor's office) before any decisions by the Borough community are needed.

12. **How many Boroughs and subscribers will we need to start a CCA for Boroughs program in PA? And how many Boroughs need to sign a Letter of Interest (or similar letter) to get the CCA program proposal for PA Boroughs started?**
    A minimum of 15,000 PECO accounts are needed to effectively launch a CCA program. We intend to prepare and develop a program structure proposal as soon as one Borough steps forward to do so.

13. **If we go 100% PA solar, where does our electricity come from at night?**
    For Boroughs that want 100% renewable energy, we intend to build CCA programs that are 100% renewable (including wind, hydro, and solar). If renewable power plants do not generate precisely the power needed, at the precise hour the community needs it, residents will be served by the general grid power, and will settle financially so that its renewable counterparties are in essence compensated for the "trade" because they will over-generate at some moments and under-generate at others. On net, the CCA will purchase 100% renewably, renewable power plants will be paid for 100% of what they generate, and consumers will not pay a nickel more, to compensate more standard power generation.

14. **I heard that a similar program ("Westchester Power") was pioneered in Westchester County, by Sustainable Westchester. Is there a contact at Westchester Power (NY) that we can connect with?**
    Mike Gordon, *Founder of Joule Community Power,* was the Founding Co-Chair of Sustainable Westchester, at the time—he guided this New York State pilot program. You may reach him at mgordon@jouleassets.com, for questions about the founding process. Dan Welsh, the current *Director of Westchester Power Program*, may be reached at dan@sustainablewestchester.org for questions regarding the current Westchester Power CCA program in NY.

Borough Actions:

1. Schedule a working or public session to better understand how the CCA model works for your Borough. The CCA for PA Working Group will meet with you to address CCA specific to your Borough.

2. Introduce a resolution to explore CCA for your Borough at a Borough Council meeting.
   a. *Form an exploratory committee;*
   b. *Collaborate with CCA for PA, to understand the details on CCA for your Borough.*

3. Select a Program Administrator to assist with the remaining steps and operation of the CCA program.
   a. *Does not commit the Borough.*
   b. *Authorizes the Program Administrator to present Supplier contract options on behalf of the Borough.*

FAQ on Community Choice Aggregation for PA Boroughs:

1. **What options will people have? What changes?**
   Currently, residents and local businesses have 2 options to receive electricity supply: via PECO utility (default) or via a third-Party Supplier. With a CCA program, the community will have 3 options: CCA Energy (default), PECO utility, third-Party Supplier.

2. **Will residents see any increase or decrease in electric power reliability?**
   The regulated utility remains responsible for the entire transmission and distribution system. Residents' transmission and distribution service, bills and costs will remain unaffected.

3. **Will the CCA participants pay their electric bills to the Borough? Or will it be billed on our regular PECO bill?**
   Since the utility remains in charge of billing and electricity distribution, CCA subscribers still receive a PECO bill. Only the Energy Supplier section of the bill is changed.

4. **Who does the CCA program apply to?**
   The CCA program applies to residents and small businesses within the local government's jurisdiction, who have not already chosen a competitive energy supplier. Government, schools and larger businesses generally have their own electricity procurement contracts and will not be affected by the CCA program. However, any consumer, large or small, can opt in to the CCA at any time.

5. **What will the price of electricity be, compared to PECO price to compare (market rate)?**
   With CCA, the cost of electricity remains **stable** throughout the 2-to-5-year contract period. That way, the community is not subject to any energy price instability. This often generates savings, particularly when energy prices are rising[3].. Residents may always opt out of the program, and either buy power from the utility or from a private supplier, if they choose to.

6. **What is the cost to the local government to start up a CCA program?**
   The CCA for PA team is offering to draft a program proposal at **no cost.** The administrator will be compensated by fees included in electricity supply costs, when the CCA becomes operational.

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[3] **For example, Joule's first CCA contract with 20 municipalities in NY led to 17 million dollars of savings for the participating communities throughout the 30-month contract period. The history of rates in the Westchester, NY CCA program can be visualized here.**

Parks and Recreation Committee

The Committee meeting was held on January 2, at 7:00pm; Committee Members: Jen Henderson -Chair, Haley Welch, Lisa Auerbach and Nancy Roecker-Coates.

The Committee will make no recommendations.

The following business was discussed:

1. An EAC/Ambler Borough self-guided litter clean up event was scheduled for MLK Day.

Salary & Personnel Committee

The Committee meeting was held on January 2, at 7:00pm; Committee Members: Lisa Auerbach – Chair, Jen Henderson, Karen Sheedy and Elizabeth Iovine.

The Committee will consider the following recommendation.

1. An executive session was held this evening. A recommendation may be forthcoming.

The following business will be discussed:

1. Resumes are being accepted for the Water Department vacancy. Interviews were scheduled for the Maintenance-Repairman and Waste Water vacancies.

Approved at the Committee Meeting

Recommendations

1. A recommendation is expected on a personnel issue.