

US EPA ARCHIVE DOCUMENT



CIRCUIT RIDER PROGRAM

Energy Efficiency in Local Government Operations

April 30, 2014

Rob Graff

Delaware Valley Regional Planning Commission
Manager, Office of Energy and Climate Change Initiatives
rgraff@dvrpc.org
215.238.2826

DVRPC Region

(Project Area Highlighted)



DVRPC Region

(Project Area Highlighted)

New York City

Planning areas

- Transportation Planning, Air Quality, Smart Growth Planning, Environmental Planning, Housing and Economic Development, Population and Employment forecasts, Long Range Planning, and...
- Energy and Climate Change Initiatives:
 - Regional greenhouse gas and energy use inventory
 - Climate change impact planning
 - Preparing the region for alternative energy
 - Electric vehicle readiness plan
 - Natural gas vehicle readiness
 - **Municipal energy management assistance**

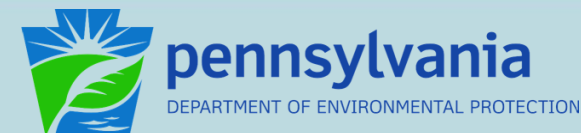
Challenge of Municipal Energy Planning

- Small local governments
- Limited staffing capacity
- Fiscal constraints
- Equipment Vendor Driven
- Lack of confidence in energy decisions
- Unsure where to start with energy management



Our Partners

- Advisory Group



- County Planning Depts. (EECBG projects)

- The Reinvestment Fund

- PA Southeast Regional Energy Office (PA DEP)



- PECO Act 129 incentives

- US EPA and ENERGY STAR tools

- City of Philadelphia's Greenworks plan

- PA's Local Development Districts



DVRPC Circuit Rider Program

Focus on energy efficiency in municipal operations

Provide smaller municipalities with easy access to the resources and tools they need to prioritize projects for cost-effectively reducing energy costs in their operations.

1. Reducing Energy Costs in Municipal Operations **Seminar Series**
2. **Streetlights and Traffic Signals**
3. **Direct Technical Assistance**

Circuit Rider: “any professional who travels a regular circuit of locations to provide services”

Direct Technical Assistance

- One-on-one assistance for from DVRPC and a certified energy expert (Practical Energy Solutions)
- Work **with** munis to Identify and prioritize cost-effective projects to reduce energy costs.
- Provide assistance with implementing recommended projects



Direct Technical Assistance Process



Finding the right consultant

- Wanted to assure interaction with DVRPC and municipalities.
- Innovation: Let's see how they respond to the problems we are seeing
 - Described two municipalities with different issues
 - Asked what they would do, how they would do it, and how they would leverage DVRPC staff time.

Evaluation Criteria

Technical qualifications that demonstrate excellence of previous work: (35%)

- **Experience working one-on-one with small- and medium-size municipalities** that demonstrate varied levels of commitment and expertise related to energy management.
- Experience with providing the Energy Management Services described in Section IV, Scope of Work.
- Familiarity with tools, resources and funding opportunities available to municipalities in the region.
- **Familiarity with the physical, political, regulatory and legal planning environment in southeastern Pennsylvania.**
- Demonstrated expertise in the preparation and presentation of technical materials to the public, municipal officials; demonstrated experience facilitating meetings.
- Relevant certifications and professional registrations of proposed staff.

Evaluation Criteria

Quality of overall proposal submitted (10%)

- Proposal is clear, concise, well written, and well formatted.

Sample Project Work Orders: **Technical Evaluation** (35%)

- Tasks laid out indicate an **understanding of how to effectively engage municipalities** and guide them through implementation within the number of hours available.
- Work order indicates an **understanding of the “experienced senior advisor” role** of the consultant, and makes proper use of DVRPC staff time for administrative, organizational, logistical, and appropriate analytical tasks.
- Tasks laid out indicate an ability to leverage energy management services within the consultant’s experience and capabilities as described elsewhere the in the proposal.
- Demonstrate judicious and **efficient use of consultant’s time** for sample project work orders.

Sample Project Work Orders: **Cost Evaluation** (20%)



OUR VISION:



To reduce, as much as possible, the consumption of finite energy resources

We will help our clients cut energy consumption by:

- Eliminating waste,
- Improving efficiencies, and
- Guiding them toward a sustainable energy future.

OUR VALUE TO

Small, local firm. Very personable, experienced with local municipalities. www.practicalenergy.net

Direct Technical Assistance Process



If you give it away, it must not be worth much

dvrpc



- OUTDOOR LIGHTING
- WATER/WASTEWATER TREATMENT
- VEHICLE FLEET
- BUILDINGS

CIRCUIT RIDER

FOR ENERGY EFFICIENCY IN LOCAL GOVERNMENT OPERATIONS

APPLICATION FOR DIRECT TECHNICAL ASSISTANCE FOR ENERGY EFFICIENCY

Municipality: _____

County: _____

Direct Technical Assistance Point of Contact

Name: _____

Title: _____

Mailing address:

Telephone: _____

E-mail: _____

Who is currently responsible for municipal energy decisions (name and title)?

Which of the following does your municipality operate?
(check all that apply)

- Administration building (number: __)
- Police station (number: __)
- Fire station (number: __)
- Public works garage (number: __)
- Library (number: __)
- Street lights (number: _____)
- Water/wastewater pumping facility (number: __)
- Water treatment plant (number: __)
- Wastewater treatment plant (number: __)
- Vehicle Fleet (approx. number of vehicles: _____)
- Other (e.g. ice rink, pool, etc.)

What are your most pressing energy concerns?

If you give it away, it must not be worth much

Does your municipality track energy use and costs?
If so, how?

How much does your municipality spend annually on
energy? _____

What are your most pressing energy concerns?

Please send copies of the most recent monthly utility bills for all municipal accounts along with your completed application. This information can be sent separately from the application.

For more information or clarification on any of these questions, please contact Liz Compitello at: 215-238-2897 or ecompitello@dvrpc.org

Please return application and utility bills by mail, e-mail or fax to:

Liz Compitello
Delaware Valley Regional Planning Commission
190 N. Independence Mall West
Philadelphia, PA 19106
ecompitello@dvrpc.org
Fax: 215.592.9125

What do I have to do to participate?

To apply, complete the simple application form on the next page. Note that municipalities must also send copies of the most recent monthly utility bills for all municipal accounts. Together with county planning departments, DVRPC will select municipalities that are committed to cost-effective energy management in their operations, but have staffing or financial barriers. **Municipalities in the program must:**

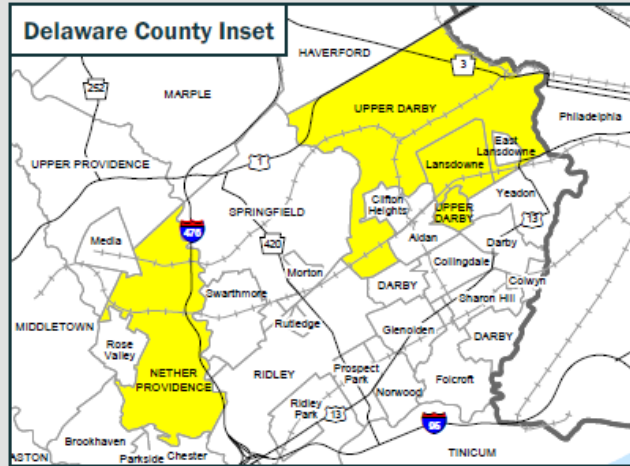
- Identify a single point of contact to coordinate with municipal staff and DVRPC's team.
- Commit to participating with DVRPC and the other selected municipalities throughout the project. This will include (please note that the hourly estimates provided will vary by size and capacity within each municipality):
 - gathering and compiling energy-use information for municipal operations to use as a starting point for developing an energy management plan (4-5 hours);
 - participating in a training workshop on gathering and managing energy use data (½ day);
 - participating in a walk-through assessment with DVRPC's energy expert (2 hours);
 - making staff and elected officials available for a debriefing on the findings and recommendations of the energy expert (2 hours);
 - working with DVRPC staff to set priorities on recommendations (½ day); and
 - joining other Direct Technical Assistance Communities in two half-day roundtables to share best practices, and report on your progress. (2 half-day roundtables).

This level of committed participation is critical to ensuring success in reducing your energy costs.

Direct Technical Assistance Communities*



CIRCUIT RIDER PROGRAM



Bucks County

- Lower Southampton Township
- Bristol Township

Chester County

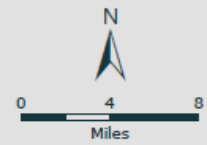
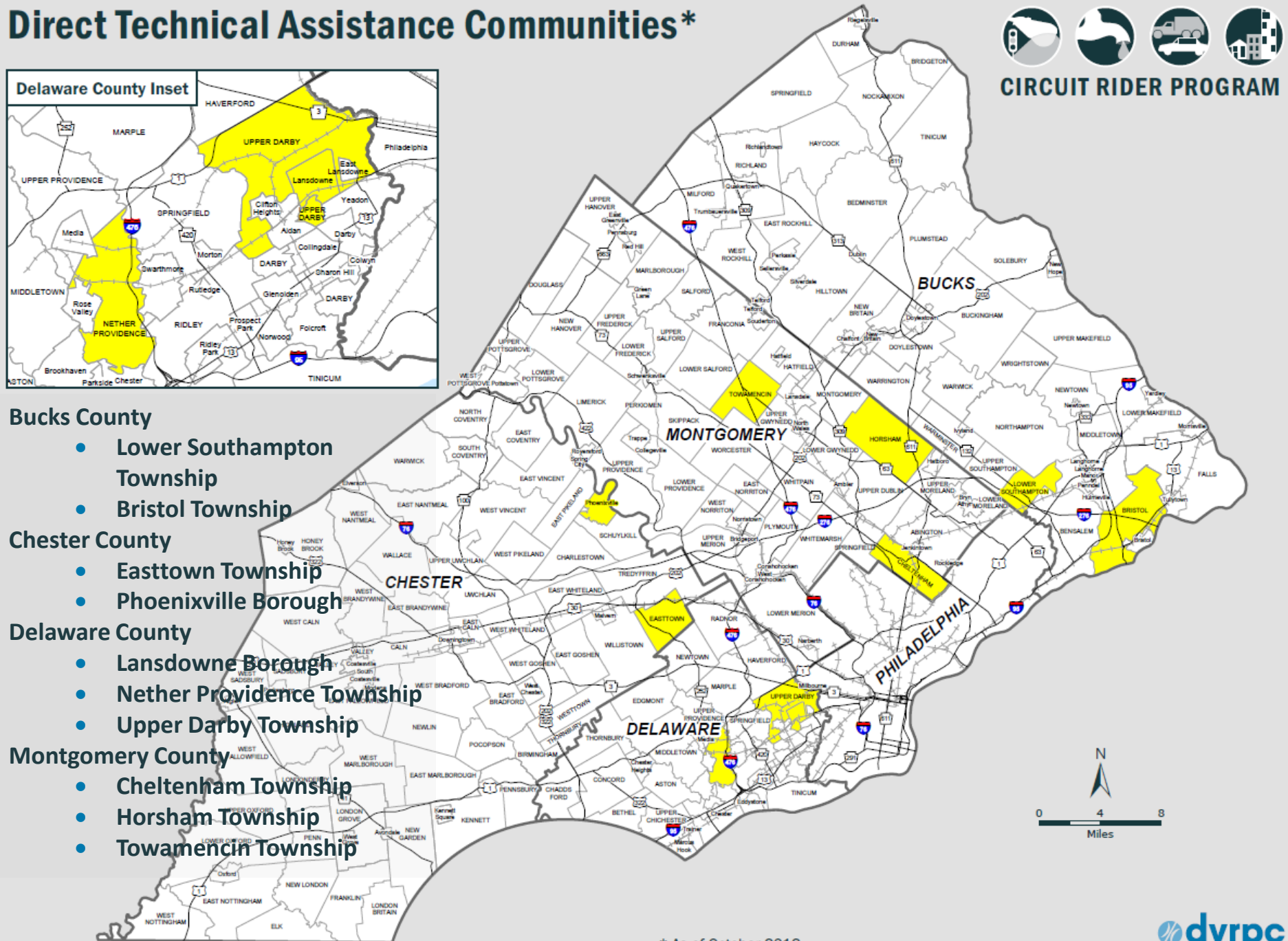
- Easttown Township
- Phoenixville Borough

Delaware County

- Lansdowne Borough
- Nether Providence Township
- Upper Darby Township

Montgomery County

- Cheltenham Township
- Horsham Township
- Towamencin Township



* As of October 2012

Reflecting the Diversity of our Region's Municipalities

Municipality	Population (2010)	Median Household Income (2009 ACS)
DELAWARE		
Nether Providence	13,706	\$96,435
Lansdowne Borough	10,620	\$63,009
Upper Darby Township	82,795	\$52,572
CHESTER		
Easttown Township	10,477	\$128,984
Phoenixville Borough	16,440	\$61,153
MONTGOMERY		
Towamencin Township	17,578	\$75,128
Cheltenham Township	36,793	\$72,584
Horsham Township	26,147	\$81,888
BUCKS		
Lower Southampton Township	18,909	\$74,193
Bristol Township	54,582	\$47,693

Talk Their Language

DVRPC Circuit Rider for Energy Efficiency in Local Government Operations.

In 2011, DVRPC was awarded a grant through the United States Environmental Protection Agency's Climate Showcase Communities Program to create a replicable model of sustainable community action that generates cost-effective and persistent energy reductions while improving the environmental, economic, public health, or social conditions in a community. Through this program, DVRPC launched the *Circuit Rider for Energy Efficiency in Local Government Operations* program. DVRPC's *Circuit Rider* program works with municipalities in Bucks, Chester, Delaware, and Montgomery Counties to reduce energy costs in their municipal operations. Municipalities in southeastern Pennsylvania grapple with tightening budgets and limited staffing, and yet they are inundated by sales-pitches for energy efficiency improvements on a regular basis. Municipalities want to know where to start with energy management, and how to carry these aspirations through to the implementation of cost-effective and long-term solutions towards their energy challenges. With state and federal funding for energy efficiency projects ramping down, DVRPC seeks to work with municipalities to demonstrate how cost-effective energy management decisions can be implemented and institutionalized to achieve real savings.

Talk Their Language

Every municipality has opportunities for energy savings! Many of these opportunities are easy to achieve at low or no cost. In these times of tight budgets and limited staffing, many municipalities simply don't have the time to sift through competing options (and sales pitches) for energy efficiency improvements.

The Delaware Valley Regional Planning Commission (DVRPC), your regional planning agency, is pleased to announce **free one-on-one direct technical assistance to reduce energy costs**—designed explicitly for smaller municipalities in southeastern Pennsylvania. This flyer provides information on this opportunity, and explains how to apply.

Reward and Acknowledge

October 24, 2012

Dennis Sheehan
Assistant Township Manager
Nether Providence Township
214 Sykes Lane
Wallingford, PA 19086

Dear Mr. Sheehan:

On behalf of the Board of the Delaware Valley Regional Planning Commission, I congratulate you and Nether Providence Township for your selection to receive the first round of Direct Technical Assistance under DVRPC's Circuit Rider for Energy Efficiency in Municipal Operations. DVRPC looks forward to working with Nether Providence Township and the other nine Direct Technical Assistance awardees, both individually and together, to develop and implement cost-effective strategies to reduce your energy costs.

DVRPC commends you for taking a leadership role in reducing energy use in municipal operations. Energy bills make up a significant part of municipal budgets, and by demonstrating commitment towards identifying cost-effective ways to reduce these costs, you are setting an important example for the residents and businesses in your community, as well as for other municipalities in the region that face similar challenges.

If you have any questions about Direct Technical Assistance, please contact Robert Graff, Manager, Office of Energy and Climate Change Initiatives, at 215-238-2826 or rgraff@dvrpc.org. Congratulations, and thank you for your leadership!

With best regards,



Barry Seymour
Executive Director

On behalf of the Board of the Delaware Valley Regional Planning Commission, I congratulate you and Nether Providence Township for your selection to receive the first round of Direct Technical Assistance under DVRPC's Circuit Rider for Energy Efficiency in Municipal Operations. DVRPC looks forward to working with Nether Providence Township and the other nine Direct Technical Assistance awardees, both individually and together, to develop and implement cost-effective strategies to reduce your energy costs.

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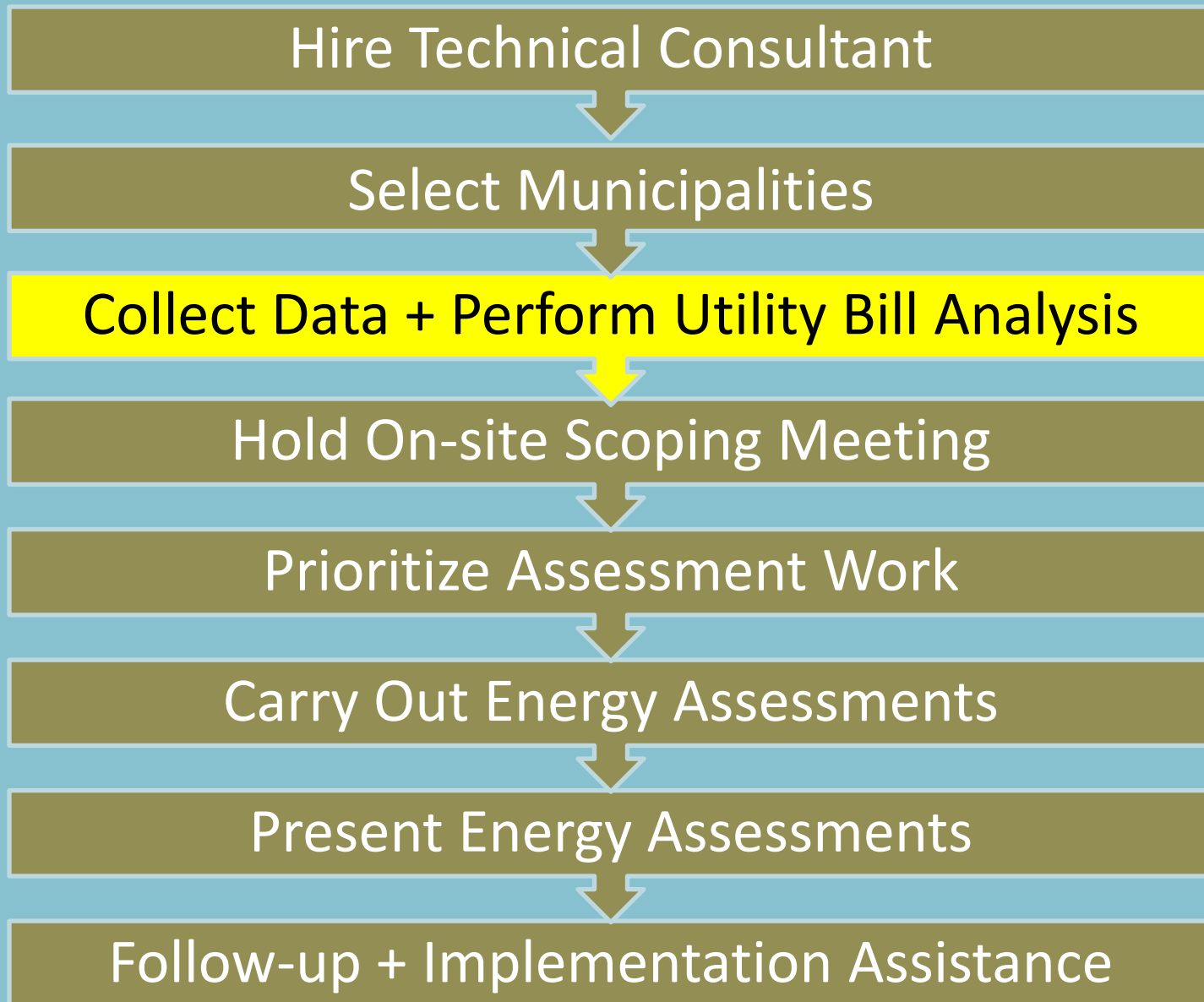
Congratulations, and thank you for your leadership!

With best regards,



Barry Seymour
Executive Director

Direct Technical Assistance Process



Baselining

- DVRPC worked with munis on data collection (fundamental starting point)

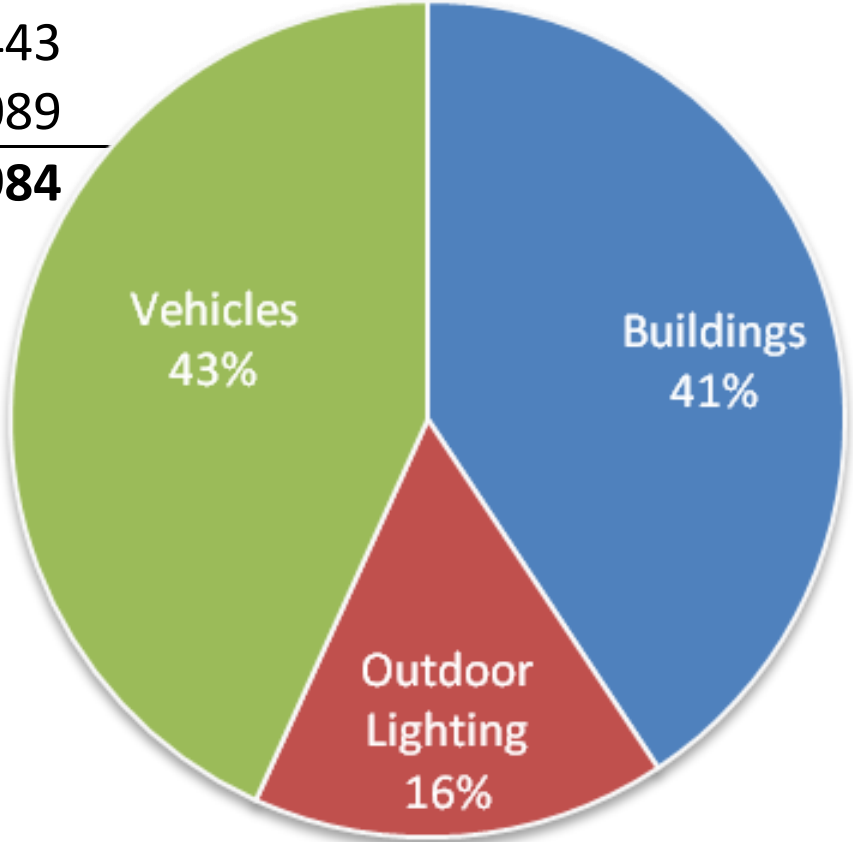


	A	C	D	E	F
1		<u>PECO - TWP. BLDG. - 2010</u>			
2		<u>Acct. #</u>	<u>01409-360</u>		
3					
4	<u>SERVICE DATE</u>	<u>kWh</u>	<u>\$\$</u>	<u>Ccf</u>	<u>\$\$</u>
5					
6	12-17/1-20	9,360	1,138.83	397	487.12
7	1-20/2-18	7,840	1,079.43	438	534.96
8	2-18/3-21	8,000	1,018.28	199	264.04
9	3-21/4-19	7,280	\$1,011.48	21	50.63
10	4-19/5-19	11,862	\$1,150.93	17	\$45.75
11	5-19/6-17	10,000	1,528.63	15	41.95
12	6-17/7-19	14,000	\$1,829.25	17	43.07
13	7-19/8-17	11,920	\$1,440.33	16	42.03
14	8-17/9-16	10,640	\$1,279.57	17	43.07
15	9-16/10-17	9,280	1,087.70	35	62.19

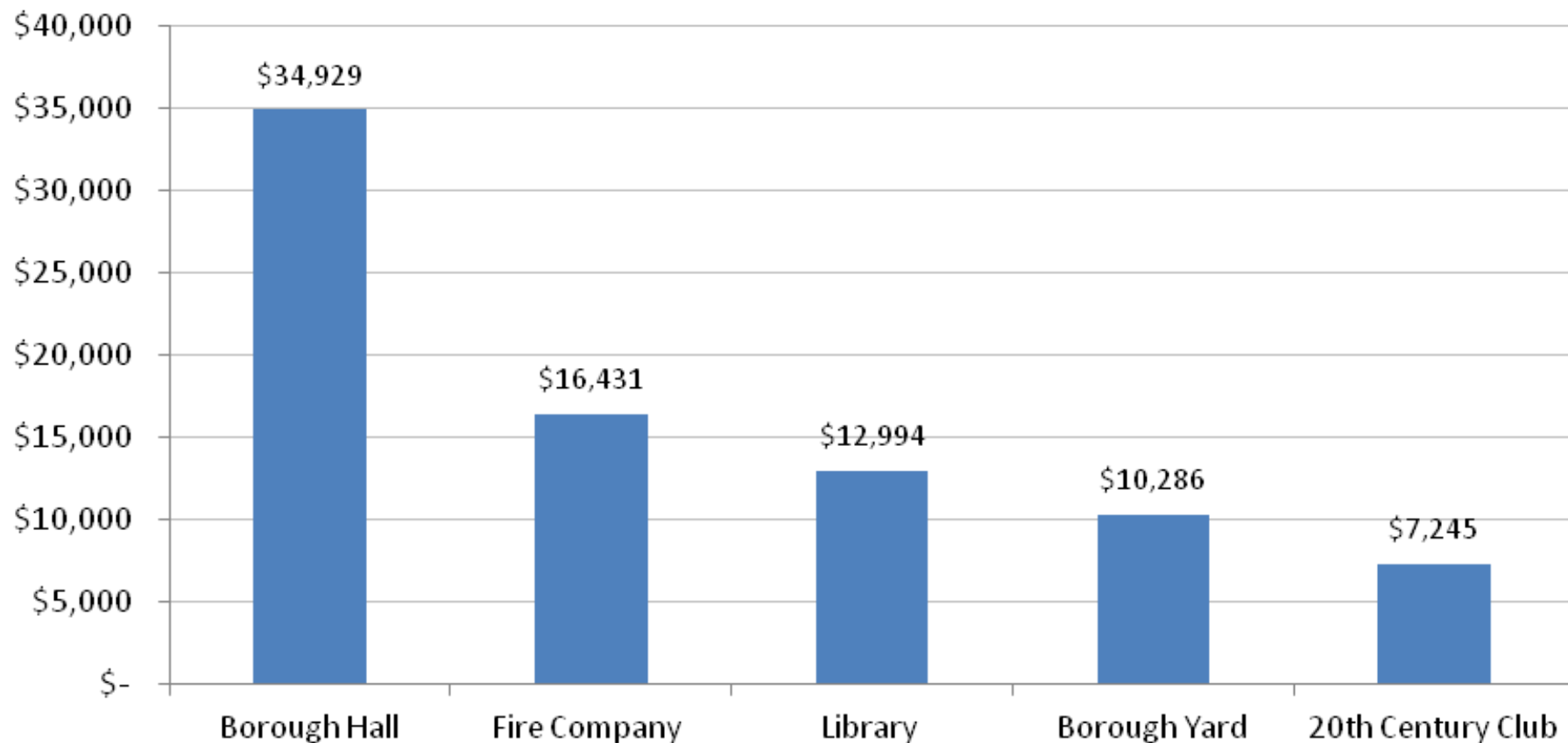
Annual Energy Cost—2011

Annual Energy

Sector	Cost
Buildings	\$90,452
Outdoor Lighting	\$97,443
Vehicles	\$96,089
Total	\$283,984



Lansdowne Municipal Buildings Annual Energy Cost - YTD (Sept 2011-Aug 2012)



Direct Technical Assistance Process



Scoping Meetings



Lansdowne Township Municipal Operations Energy Use & Cost Report

Prepared by Provincial Energy Solutions and DRPC
November 31, 2022

Total Operating Energy Use & Cost Values
 In 2022, Lansdowne Borough reported a total of 1,023,362 kWh of energy used for municipal operations, including all buildings, a 6% increase from the 965,800 kWh reported in 2021.

Annual Energy Cost—2021

Energy	Annual Energy Cost
Electricity	\$457,114.4
Gas	\$328,288.8
Water	\$238,958.8

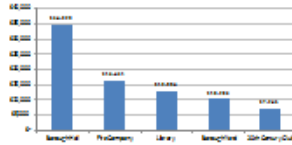


5. Buildings and Facilities

In the year 2021 (Jan 2021 – Aug 2021), Lansdowne reported 665,885 kWh of energy used for all buildings, 67 percent of total municipal energy use. In the year 2022 (Jan 2022 – Aug 2022), the total energy used for all buildings was 665,800 kWh, a 0.01% decrease from 2021. The energy use for all buildings is broken down by facility as follows:

Lansdowne Borough buildings energy use (Jan 2022 – Aug 2022):

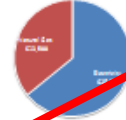
Lansdowne Municipal Buildings Annual Energy Cost – FY22 (Jan 2022 – Aug 2022)



6. Police (Police: Borough Hall) Police

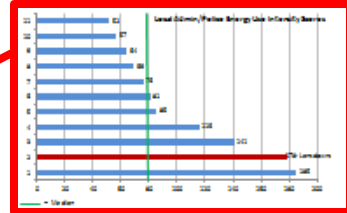
In 2022, Lansdowne reported 457,114 kWh of energy used for the Borough Hall Police Station, 45% percent of total municipal energy use. This is a 1% increase from the 457,114 kWh reported in 2021. The energy use for the Police Station is broken down by facility as follows:

Lansdowne Borough Hall Police 2021 Energy Costs



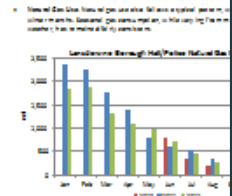
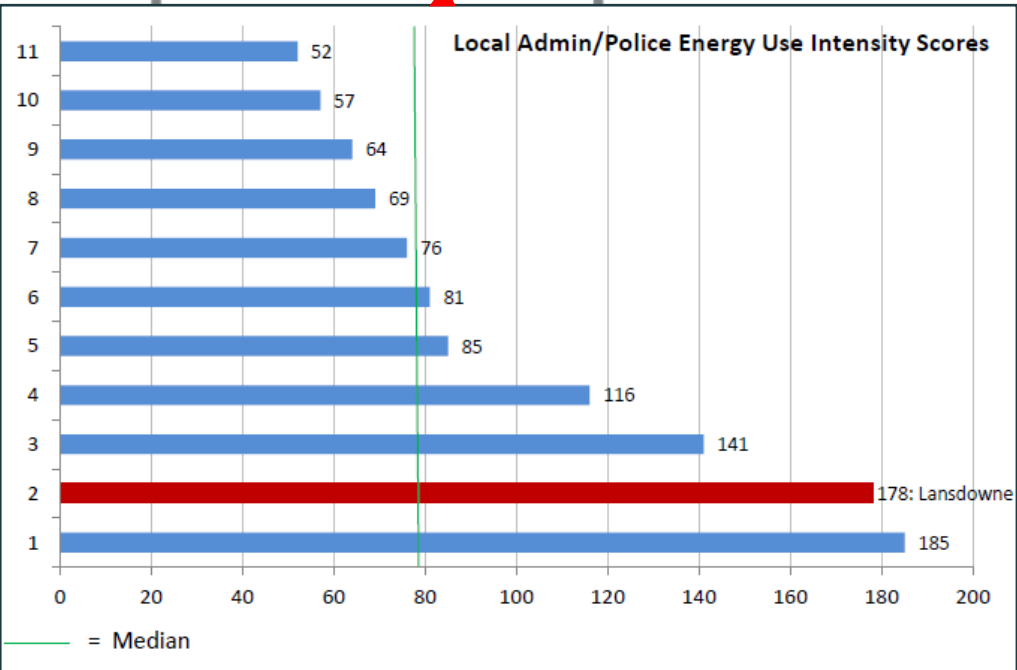
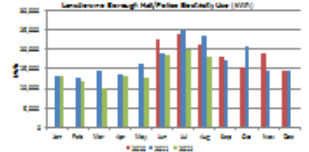
Energy Use Intensity

Energy use intensity (EUI) is the amount of energy used per square foot of floor area. It is a key metric for comparing energy use across different buildings. The EUI for the Police Station is 178 kWh/sq ft, which is higher than the median EUI for all buildings in the region (81 kWh/sq ft). This is due to the high energy use for the Police Station, which is primarily used for law enforcement purposes.



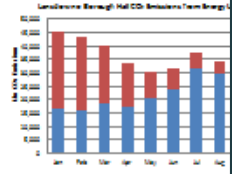
7. Building Use: Electric to compare to 2021

In 2022, Lansdowne reported a total of 1,023,362 kWh of energy used for municipal operations, a 6% increase from the 965,800 kWh reported in 2021. This is due to the increase in electricity use, which is primarily used for lighting and heating.

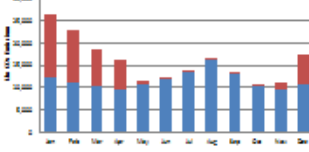


Other Energy Intensity

Total energy use per sq ft is reported for 665,885 kWh of energy used for all buildings, which is a 0.01% decrease from 665,800 kWh reported in 2021.



Lansdowne Fire House CO2 Emissions from Energy Use (2021) (Jan-2021)



6. Police (Police: Library)

In 2022, Lansdowne reported 114,444 kWh of energy used for the Library, which is 11% percent of total municipal energy use. This is a 1% increase from the 114,444 kWh reported in 2021. The energy use for the Library is broken down by facility as follows:

Energy use intensity (EUI) is the amount of energy used per square foot of floor area. It is a key metric for comparing energy use across different buildings. The EUI for the Library is 114 kWh/sq ft, which is higher than the median EUI for all buildings in the region (81 kWh/sq ft). This is due to the high energy use for the Library, which is primarily used for law enforcement purposes.

Focus on Partners

- Coffee and donuts



Focus on Partners

- Coffee and donuts
- Meeting time



Focus on Partners

- Coffee and donuts
- Meeting time
- Make participants comfortable and respected

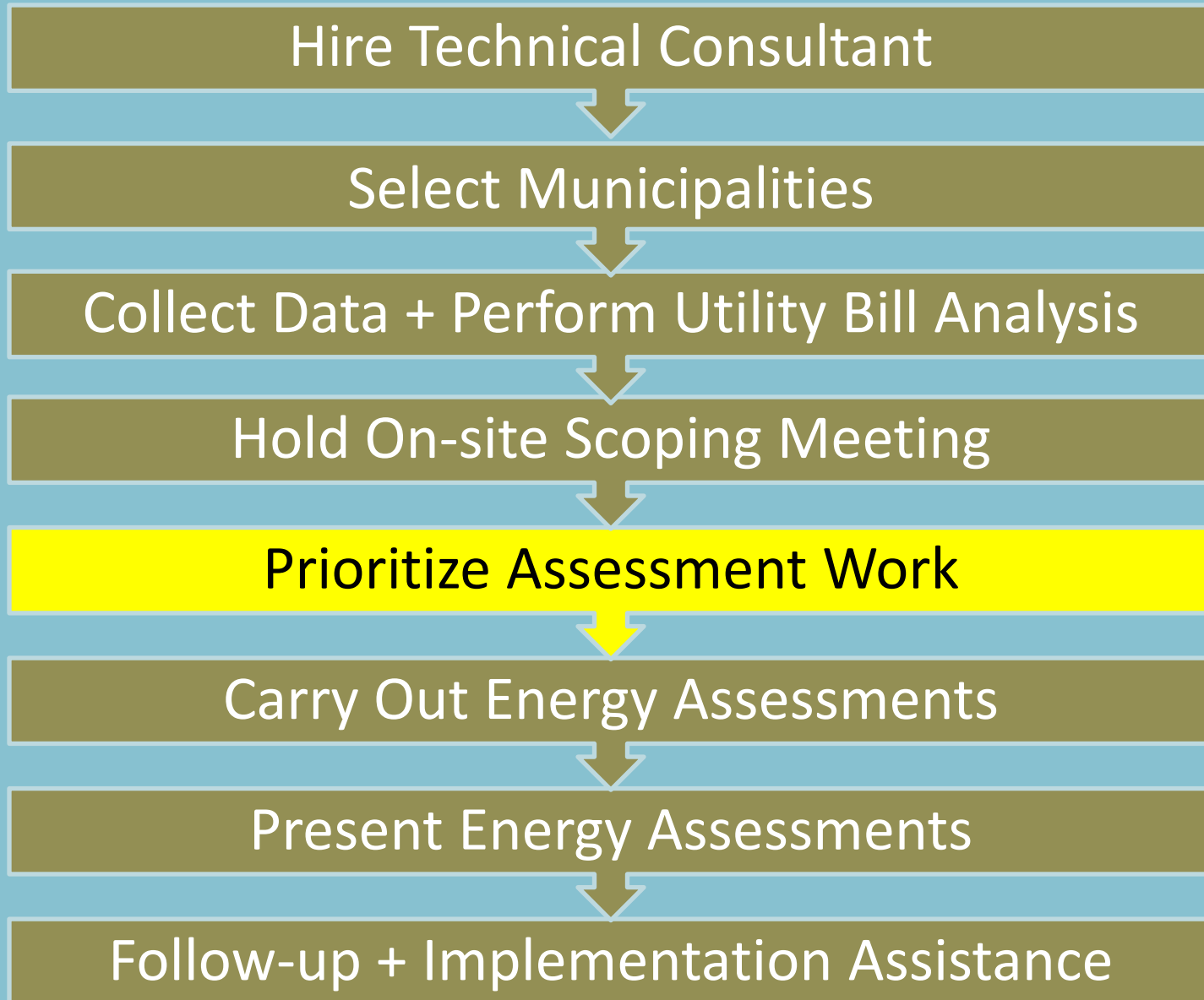
Marianne Leamy
Assistant Finance Director

dvrpc



CIRCUIT RIDER PROGRAM

Direct Technical Assistance Process

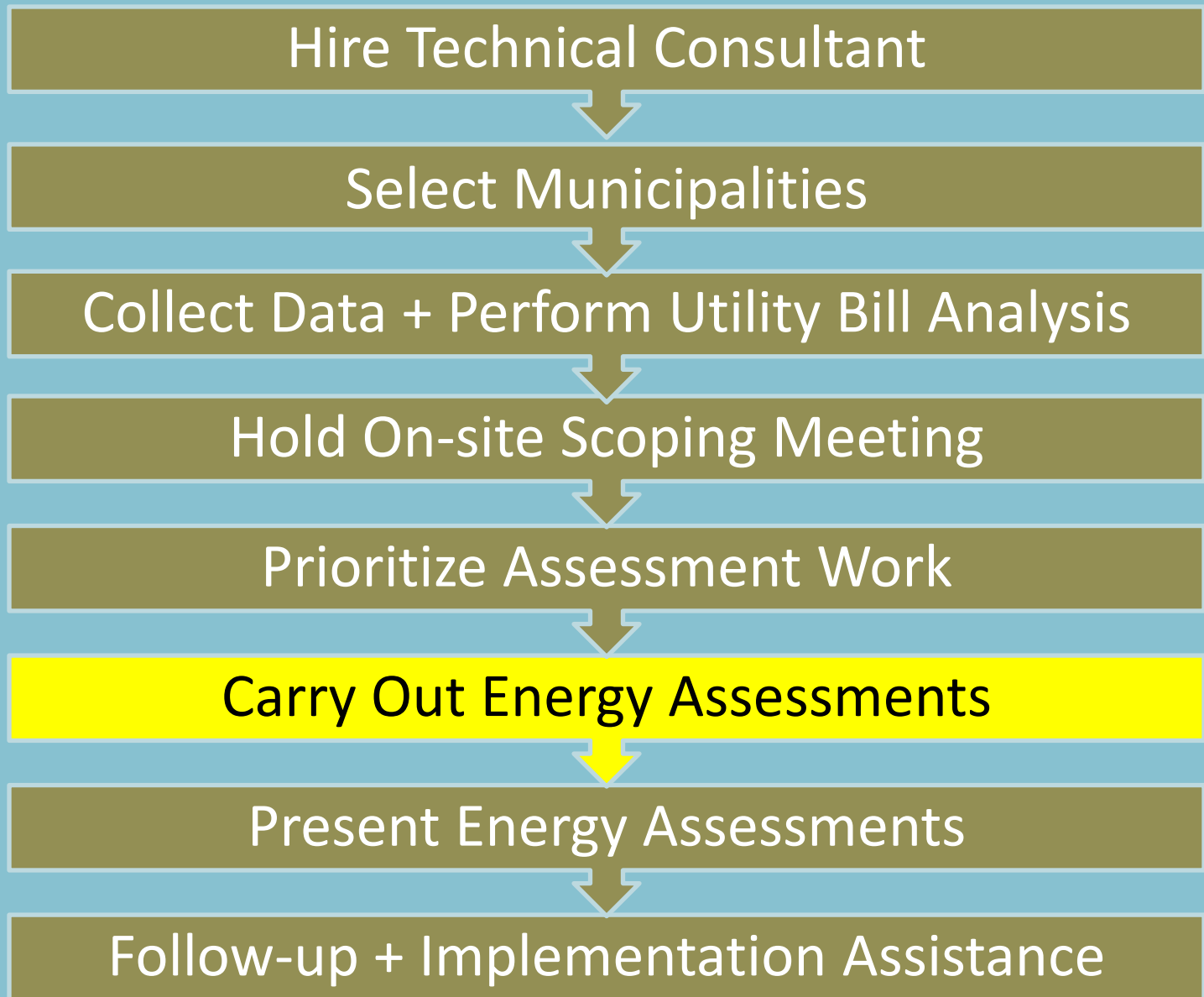


Balancing needs with resources

- Municipal Priorities
- Consultant Capabilities
- DVRPC Staff Abilities
- Economics / Payback
- Cost
- Chance of Implementation

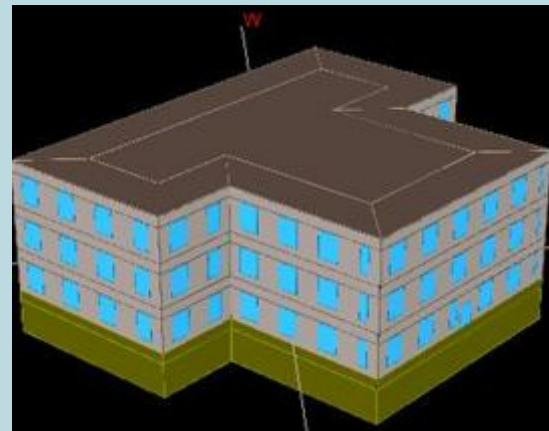
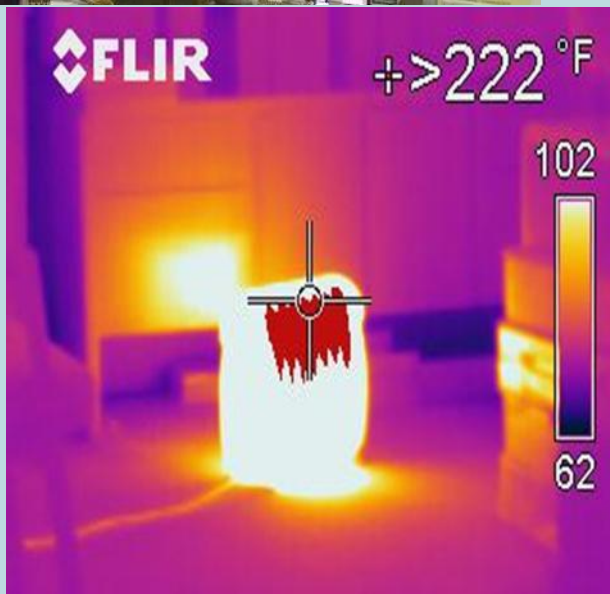


Direct Technical Assistance Process

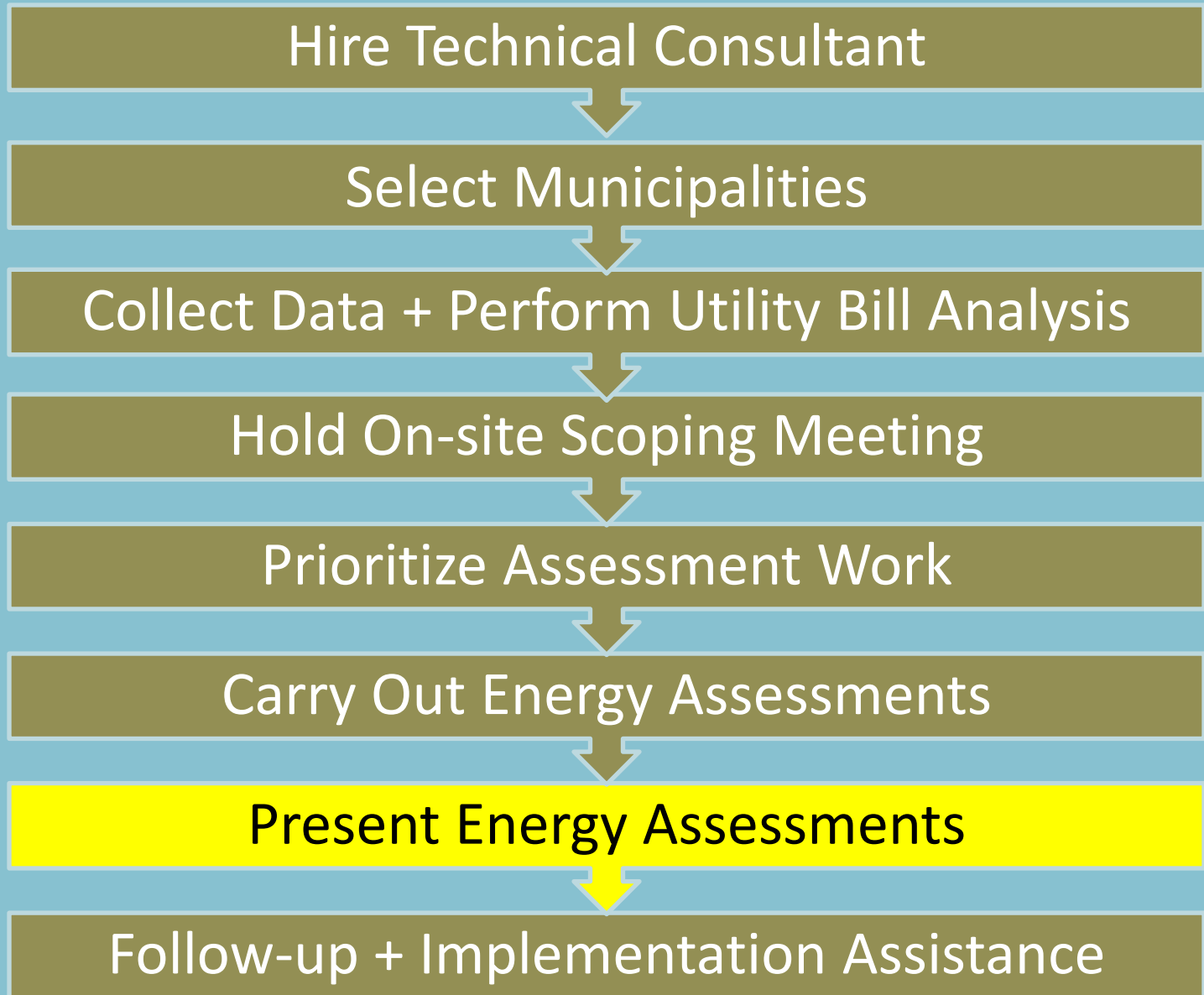


Energy Assessments

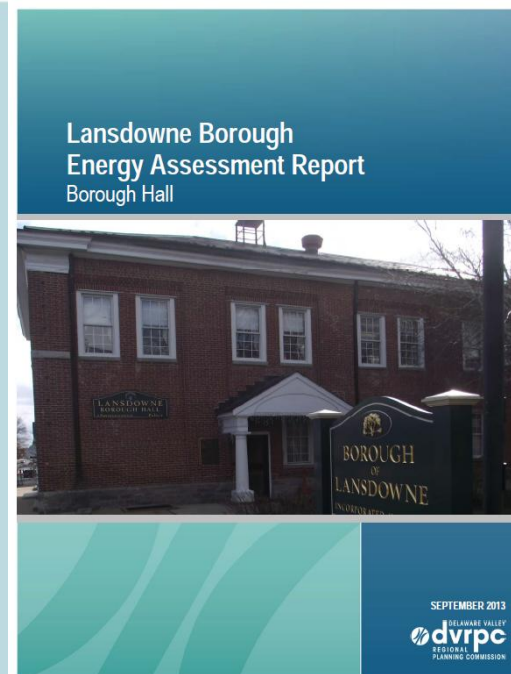
Figure 8. Significant Overlighting



Direct Technical Assistance Process



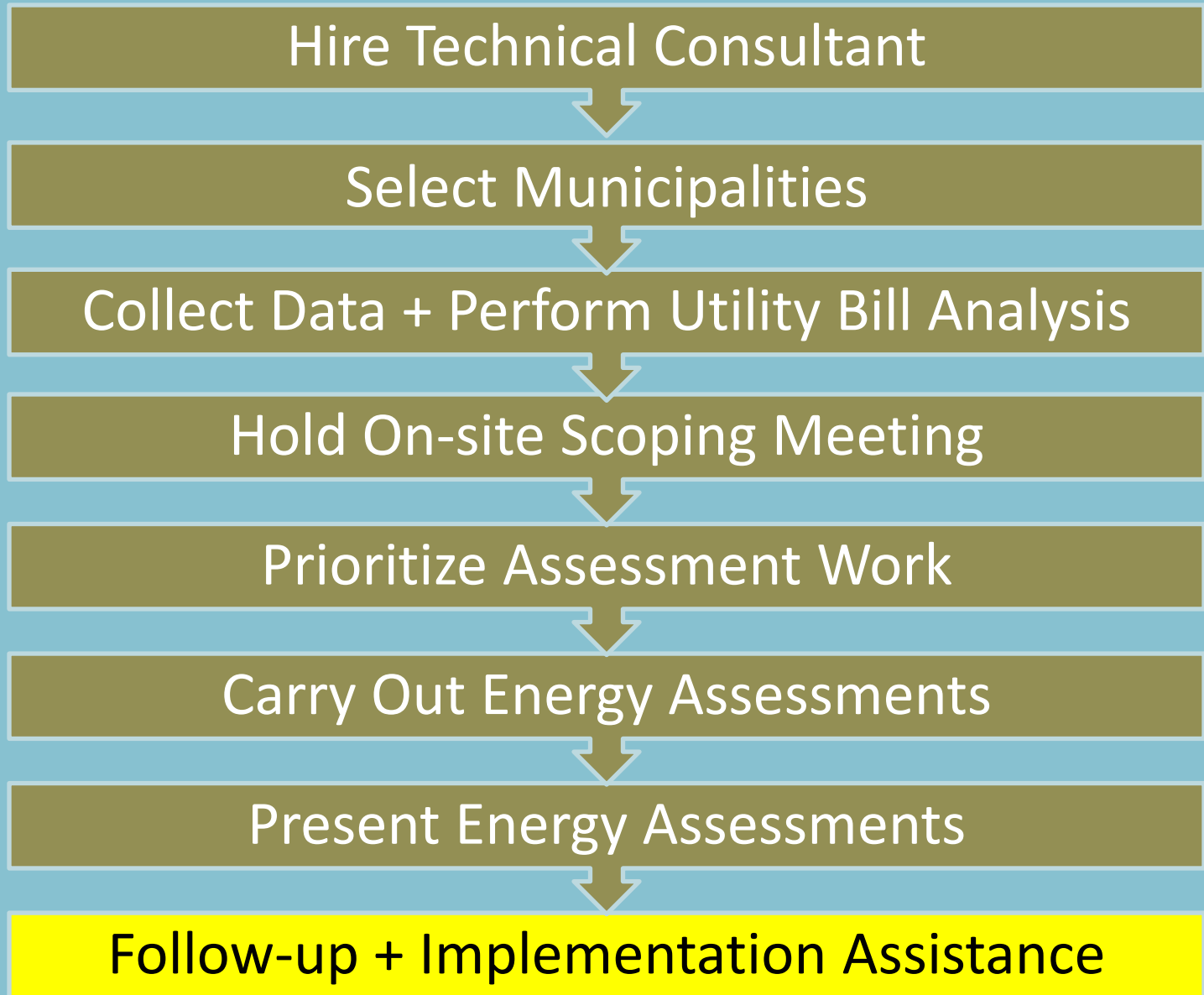
Energy Assessments (Findings)



Snapshot of DTA Energy Assessments

DTA-wide 15 yr Energy Cost Savings	\$1,112,347
Average Project Cost	\$41,514
Average Annual Cost Savings	\$11,581
Average Simple Payback (yrs.)	2.45

Direct Technical Assistance Process



Implementation Assistance



Towamencin Township Administration Building
Hot Water Baseboard Repair Plan
April 2014

The intent of this project is to gain control over the hot-water baseboard radiators in the Township Administration facility.

Existing Conditions

Currently, each baseboard radiator has an electric zone valve wired to a manual thermostat. In nearly every case, the controls are dysfunctional; some radiators run despite low thermostat settings while others do not run despite high thermostat settings. The lack of control could be due to a number of factors – including broken thermostats, faulty wiring, dysfunctional valves and actuators, and/or a problematic transformer, although a transformer problem is unlikely in this case.

Project Scope

To correct the problem, the following steps should be taken:

- Evaluate all valves, actuators, and wiring to ensure functionality. If needed, ensure functionality of transformer.
- Replace all faulty valves, actuators, and wiring.
- Replace all manual thermostats with digital programmable thermostats with locking covers. Ensure that all AHUs also have digital programmable thermostats with locking covers.
- Schedule all programmable thermostats carefully. The intent of the hot-water radiators is complement the air handling units (AHUs), which act as the primary heat source for the building. The radiators provide supplementary heat on cold days when the AHUs cannot keep heating demands and in the mornings when needed to bring the temperature up to setpoint. The baseboard thermostats should be set at temperatures below those of the AHUs, using similar to the following:

	Occupied	Unoccupied
Air Handling Units (core)	70°F	60°F
Hot-Water Baseboards (periphery)	66°F	50°F

- Once thermostats are scheduled, lock all thermostats to maintain temperature control. Set refined to meet the needs of the occupants, but the same approach outlined above should set baseboards lower than AHUs, with a 4°F difference between the occupied AHU and hot baseboard temperatures. Allowing building occupants to change settings will defeat the project and can greatly increase energy costs, while undermining comfort.

Estimated Project Costs (not to be distributed to contractors; for Township reference only)

Functionality assessment:	\$ 1,200
Zone valve replacement:	\$ 5,300
Programmable thermostat installation:	\$ 8,000
TOTAL:	\$14,500

Notes:

*Rewiring not included. If wiring is faulty, project cost will be greater.
Demo/disposal costs will also be extra. These are general estimates only.
Price also reflects replacement of all zone valves; if some zone valves are functional, price should decrease.*

Estimated Project Costs (not to be distributed to contractors)

Functionality assessment:	\$ 1,200
Zone valve replacement:	\$ 5,300
Programmable thermostat installation:	\$ 8,000
TOTAL:	\$14,500

Energy Use Tracking

Lansdowne Energy Data.xlsx - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

Clipboard Font Alignment Number Styles

Accounting

Conditional Formatting Format as Table Cell Styles

PORTFOLIO MANAGER

PECO BILL						ELECTRIC				NATURAL GAS		
Start Date	End Date	kWh	\$\$	Ccf	\$\$	Start Date	End Date	Usage	Cost	Start Date	End Date	Usage
5/1/2010	5/31/2010	22720	\$ 2,815.51	778	\$ 936.40	5/1/2010	5/31/2010	22,720	\$ 2,815.51	5/1/2010	5/31/2010	
6/1/2010	6/30/2010	24160	\$ 2,947.52	346	\$ 413.64	6/1/2010	6/30/2010	24,160	\$ 2,947.52	6/1/2010	6/30/2010	
7/1/2010	7/31/2010	21520	\$ 2,587.58	200	\$ 237.32	7/1/2010	7/31/2010	21,520	\$ 2,587.58	7/1/2010	7/31/2010	
8/1/2010	8/31/2010	18,200	\$ 2,413.08			8/1/2010	8/31/2010	18,200	\$ 2,413.08	8/1/2010	8/31/2010	
9/1/2010	9/30/2010	15,560	\$ 1,858.59	97	\$ 127.98	9/1/2010	9/30/2010	15,560	\$ 1,858.59	9/1/2010	9/30/2010	
10/1/2010	10/31/2010	18,960	\$ 2,001.75	1081	\$ 1,172.41	10/1/2010	10/31/2010	18,960	\$ 2,001.75	10/1/2010	10/31/2010	
11/1/2010	11/30/2010	14,440	\$ 1,604.63	1522	\$ 1,626.46	11/1/2010	11/30/2010	14,440	\$ 1,604.63	11/1/2010	11/30/2010	
12/1/2010	12/31/2010	13,360	\$ 1,584.96	2365	\$ 2,407.99	12/1/2010	12/31/2010	13,360	\$ 1,584.96	12/1/2010	12/31/2010	
1/1/2011	1/31/2011	12,760	\$ 1,530.54	2278	\$ 2,326.56	1/1/2011	1/31/2011	12,760	\$ 1,530.54	1/1/2011	1/31/2011	
2/1/2011	2/28/2011	14,640	\$ 1,763.42	1761	\$ 1,890.60	2/1/2011	2/28/2011	14,640	\$ 1,763.42	2/1/2011	2/28/2011	
3/1/2011	3/31/2011	13,600	\$ 1,653.85	1362	\$ 1,517.16	3/1/2011	3/31/2011	13,600	\$ 1,653.85	3/1/2011	3/31/2011	
4/1/2011	4/30/2011	16,240	\$ 1,958.32	808	\$ 898.86	4/1/2011	4/30/2011	16,240	\$ 1,958.32	4/1/2011	4/30/2011	
5/1/2011	5/31/2011	19,160	\$ 2,350.09			5/1/2011	5/31/2011	19,160	\$ 2,350.09	5/1/2011	5/31/2011	
6/1/2011	6/30/2011	25,000	\$ 2,999.88			6/1/2011	6/30/2011	25,000	\$ 2,999.88	6/1/2011	6/30/2011	
7/1/2011	7/31/2011	23,600	\$ 2,894.94			7/1/2011	7/31/2011	23,600	\$ 2,894.94	7/1/2011	7/31/2011	
8/1/2011	8/31/2011	17,240	\$ 2,146.22			8/1/2011	8/31/2011	17,240	\$ 2,146.22	8/1/2011	8/31/2011	
9/1/2011	9/30/2011	20,880	\$ 2,541.51			9/1/2011	9/30/2011	20,880	\$ 2,541.51	9/1/2011	9/30/2011	
10/1/2011	10/31/2011	14,440	\$ 1,825.15			10/1/2011	10/31/2011	14,440	\$ 1,825.15	10/1/2011	10/31/2011	
11/1/2011	11/30/2011	14,680	\$ 1,801.82			11/1/2011	11/30/2011	14,680	\$ 1,801.82	11/1/2011	11/30/2011	
12/1/2011	12/31/2011	13,360	\$ 1,644.87			12/1/2011	12/31/2011	13,360	\$ 1,644.87	12/1/2011	12/31/2011	
1/1/2012	1/31/2012	11,840	\$ 1,478.56			1/1/2012	1/31/2012	11,840	\$ 1,478.56	1/1/2012	1/31/2012	
2/1/2012	2/29/2012	10,200	\$ 1,269.56			2/1/2012	2/29/2012	10,200	\$ 1,269.56	2/1/2012	2/29/2012	
3/1/2012	3/31/2012	13,360	\$ 1,639.34			3/1/2012	3/31/2012	13,360	\$ 1,639.34	3/1/2012	3/31/2012	
4/1/2012	4/30/2012	12,880	\$ 1,636.05			4/1/2012	4/30/2012	12,880	\$ 1,636.05	4/1/2012	4/30/2012	
5/1/2012	5/31/2012	16,440	\$ 2,254.61			5/1/2012	5/31/2012	16,440	\$ 2,254.61	5/1/2012	5/31/2012	
6/1/2012	6/30/2012	19,320	\$ 2,396.37			6/1/2012	6/30/2012	19,320	\$ 2,396.37	6/1/2012	6/30/2012	
7/1/2012	7/31/2012	16,280	\$ 2,204.65			7/1/2012	7/31/2012	16,280	\$ 2,204.65	7/1/2012	7/31/2012	
8/1/2012	8/31/2012	21,640	\$ 2,542.85			8/1/2012	8/31/2012	21,640	\$ 2,542.85	8/1/2012	8/31/2012	
9/1/2012	9/30/2012	13,680	\$ 1,665.53			9/1/2012	9/30/2012	13,680	\$ 1,665.53	9/1/2012	9/30/2012	
10/1/2012	10/31/2012	12,200	\$ 1,456.78			10/1/2012	10/31/2012	12,200	\$ 1,456.78	10/1/2012	10/31/2012	
11/1/2012	11/30/2012	10,680	\$ 1,301.53			11/1/2012	11/30/2012	10,680	\$ 1,301.53	11/1/2012	11/30/2012	
12/1/2012	12/31/2012	10,600	\$ 1,271.44			12/1/2012	12/31/2012	10,600	\$ 1,271.44	12/1/2012	12/31/2012	

PECO BILL					
Start Date	End Date	kWh	\$\$	Ccf	\$\$
5/1/2010	5/31/2010	22720	\$ 2,815.51	778	\$ 936.40
6/1/2010	6/30/2010	24160	\$ 2,947.52	346	\$ 413.64
7/1/2010	7/31/2010	21520	\$ 2,587.58	200	\$ 237.32



Facilitate Exchange



Take Aways

- Select partners inclined to be engaged
- Value your partners
- Understand your role
- Reward and acknowledge
- Focus on partners
- Talk their language
- Facilitate exchange
- Be flexible and helpful

Please call or e-mail for more information and resources

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Survey Question

Task/Municipality	Cost
All meetings/planning sessions, Kick-off preparation and presentation for DH/PS, DTA questionnaire support, Prioritization assistance, Scheduling, Project management with Liz/conference calls, Internal project management	\$9,794.67
Bristol	\$4,568.08
Cheltenham	\$7,511.96
Easttown	\$1,940.46
Horsham	\$4,327.04
Lansdowne	\$3,215.76
Nether Providence	\$3,276.23
Phoenixville	\$3,487.68
Towamencin	\$4,442.90
Upper Darby	\$3,951.64
Expenses	\$740.12
Total	\$47,256.54