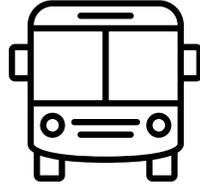


Move



Restore



Energize



Thrive



Planning Education Series

Energize

Oakland Neighborhood Planning Education Series



SUSTAINABILITY AND RESILIENCE DIVISION
DEPARTMENT OF CITY PLANNING

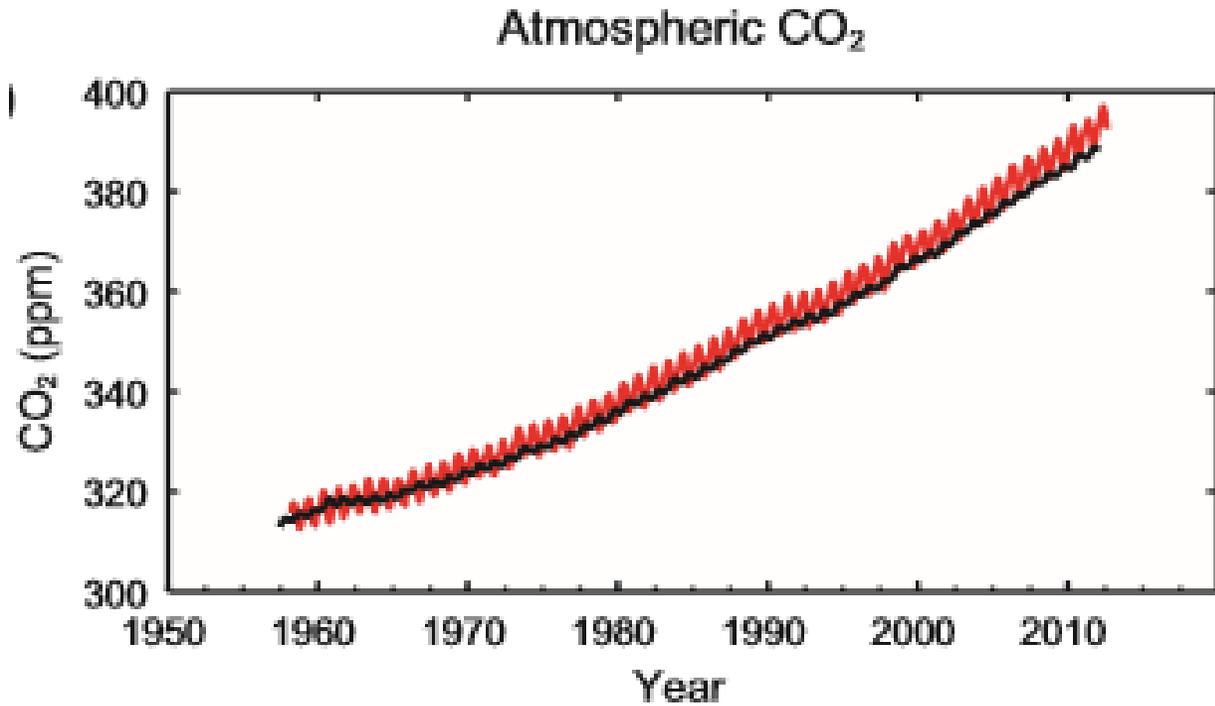
ONEPGH
RESILIENT PITTSBURGH

Sustainability and Resilience with a focus on climate

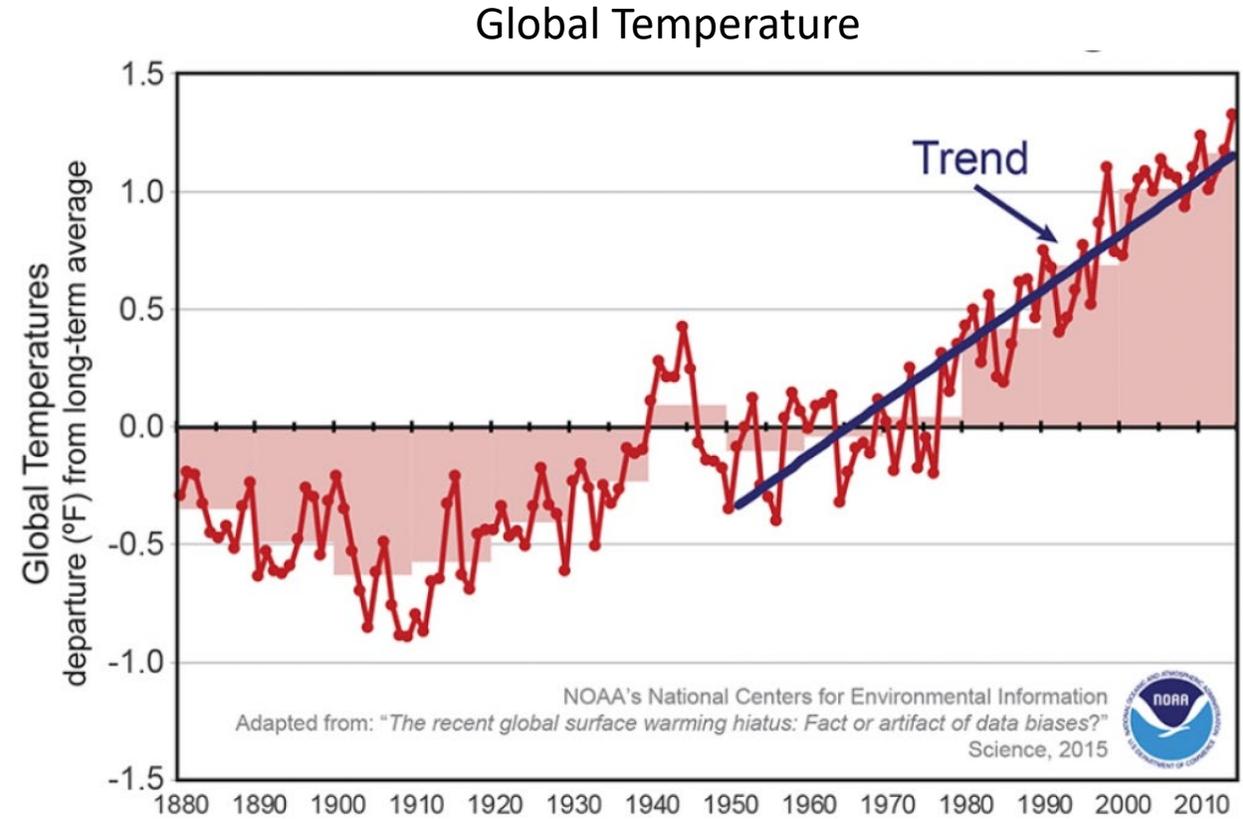
Sustainability is defined as meeting the needs of the present without compromising the ability of future generations to meet their needs. The concept of sustainability is composed of three pillars: economic, environmental, and social—also known informally as profits, planet, and people. (can also be referred to as climate mitigation)

Urban **resilience** is the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience. This definition considers the global megatrends of climate change, globalization and urbanization. (can also be referred to as climate adaptation)

As global CO₂ concentration increases over time, so does global temperature

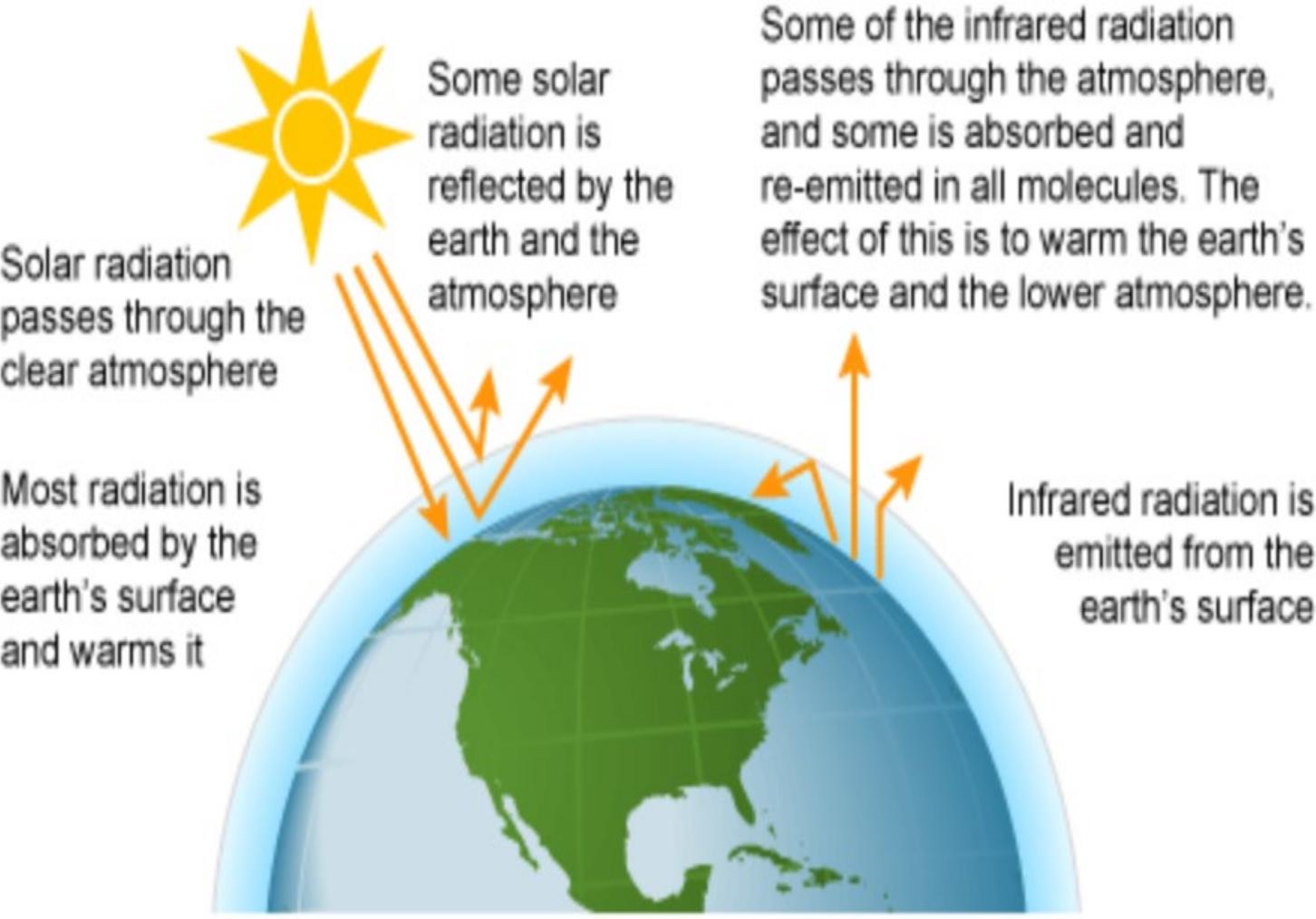


Source: UN IPCC



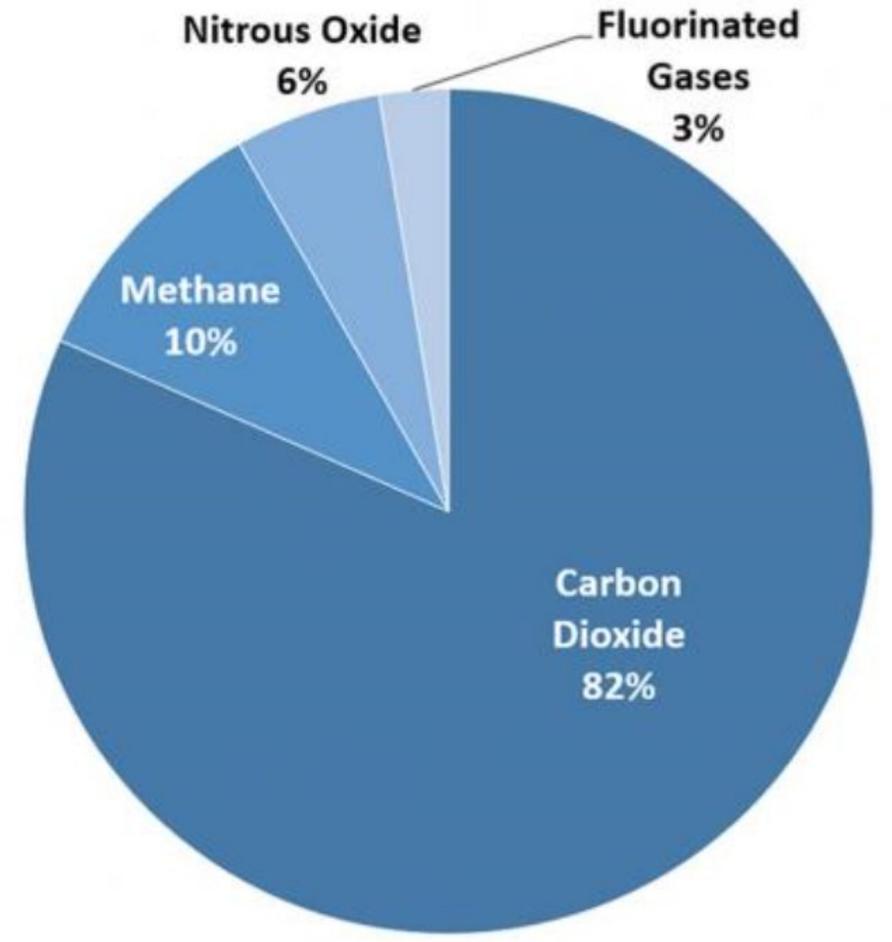
Source: US NOAA

The greenhouse effect



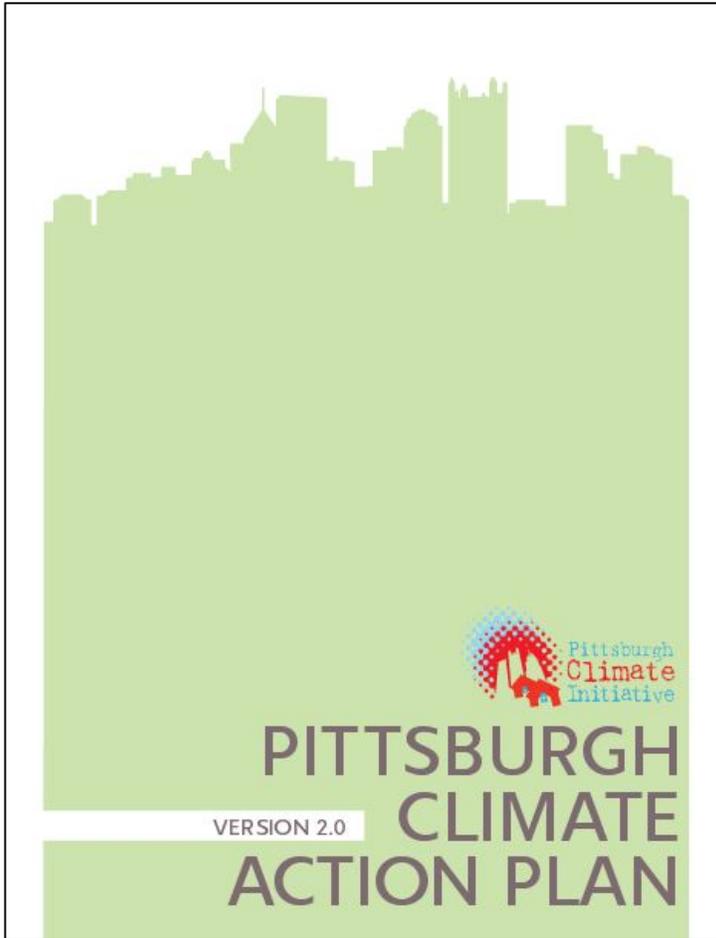
Source: US Department of Energy, Energy Intelligence Agency

U.S. Greenhouse Gas Emissions in 2017



Source: US Environmental Protection Agency

Pittsburgh's Climate Action Plan



Climate Action Plan 3.0
(2019)

Pittsburgh's 2030 Goals

- 100% renewable energy use
- 50% building energy use reduction
- 50% water use reduction
- 100% fossil fuel free fleet
- 100% waste diversion
- 50% transportation emissions reduction
- Divestment strategy for pension fund

Why is Energy so Important?

- Reducing carbon emissions mitigates the negative impacts of climate change
- Reducing air pollutants improves human health
- Money saved from reduced energy costs is good for residents and businesses
- Keeping the lights on minimizes disruption of services

Air Quality And Health

American Heart Association “State of the Air”

Failed for ozone and long and short term particulates

EPA Standards for PM 2.5

Has improved in past years, but beginning to show an uptick in pollution

PennEnvironment “Trouble in the Air” Report

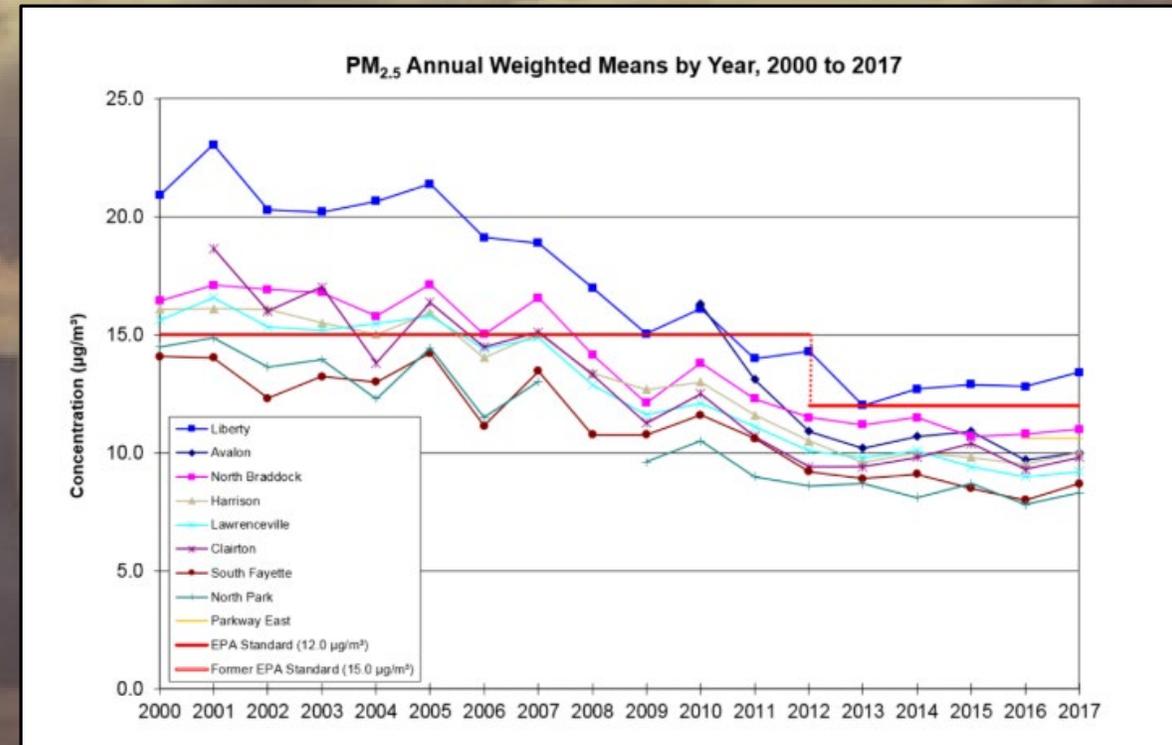
Pittsburgh 4th in large metropolitan areas in number of days that air poses moderate to serious health risks

22% Childhood Asthma Rate in Some Schools

Compared to a 10% national average, study by local researcher

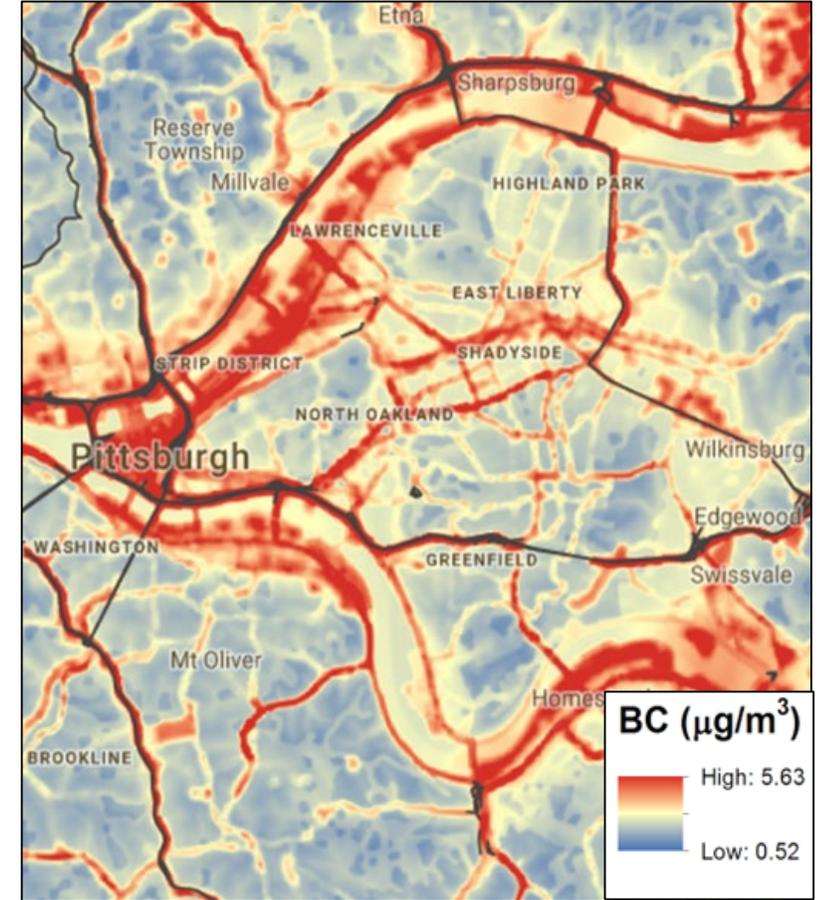
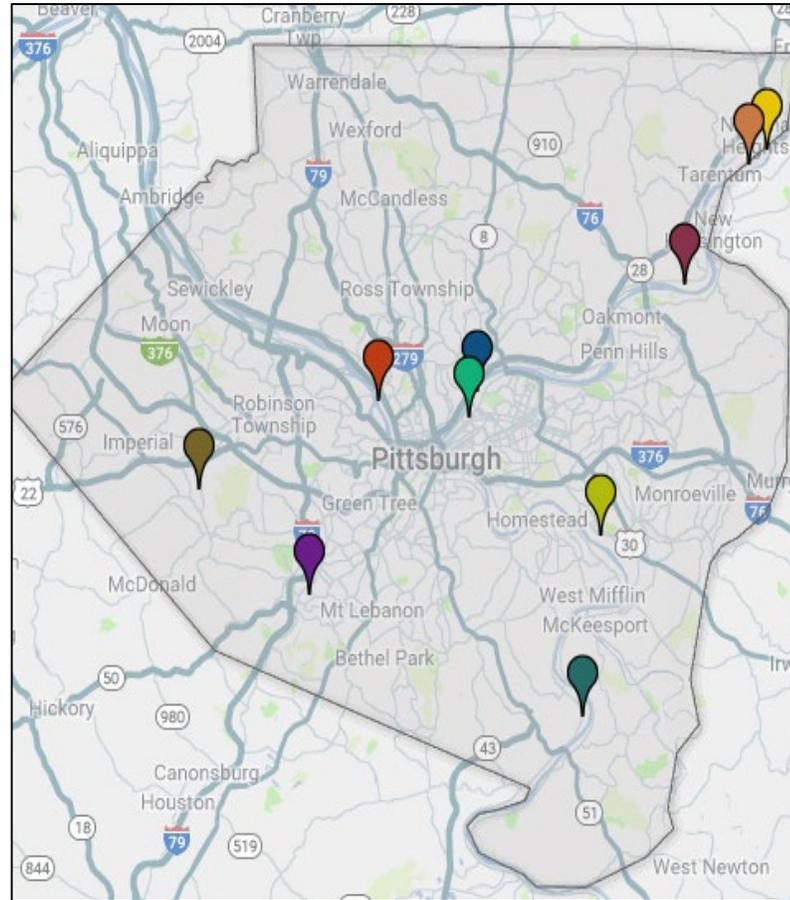
Allegheny County top 2% of counties at risk of cancer from air pollutants

Caused by energy generation and extraction, point source polluters and diesel emissions



Sources of Pollution

- “Toxic 10” point source polluters
- Pittsburgh’s topography lends itself to inversion events, causing pollution from regional energy generation to linger
- Vehicle emissions

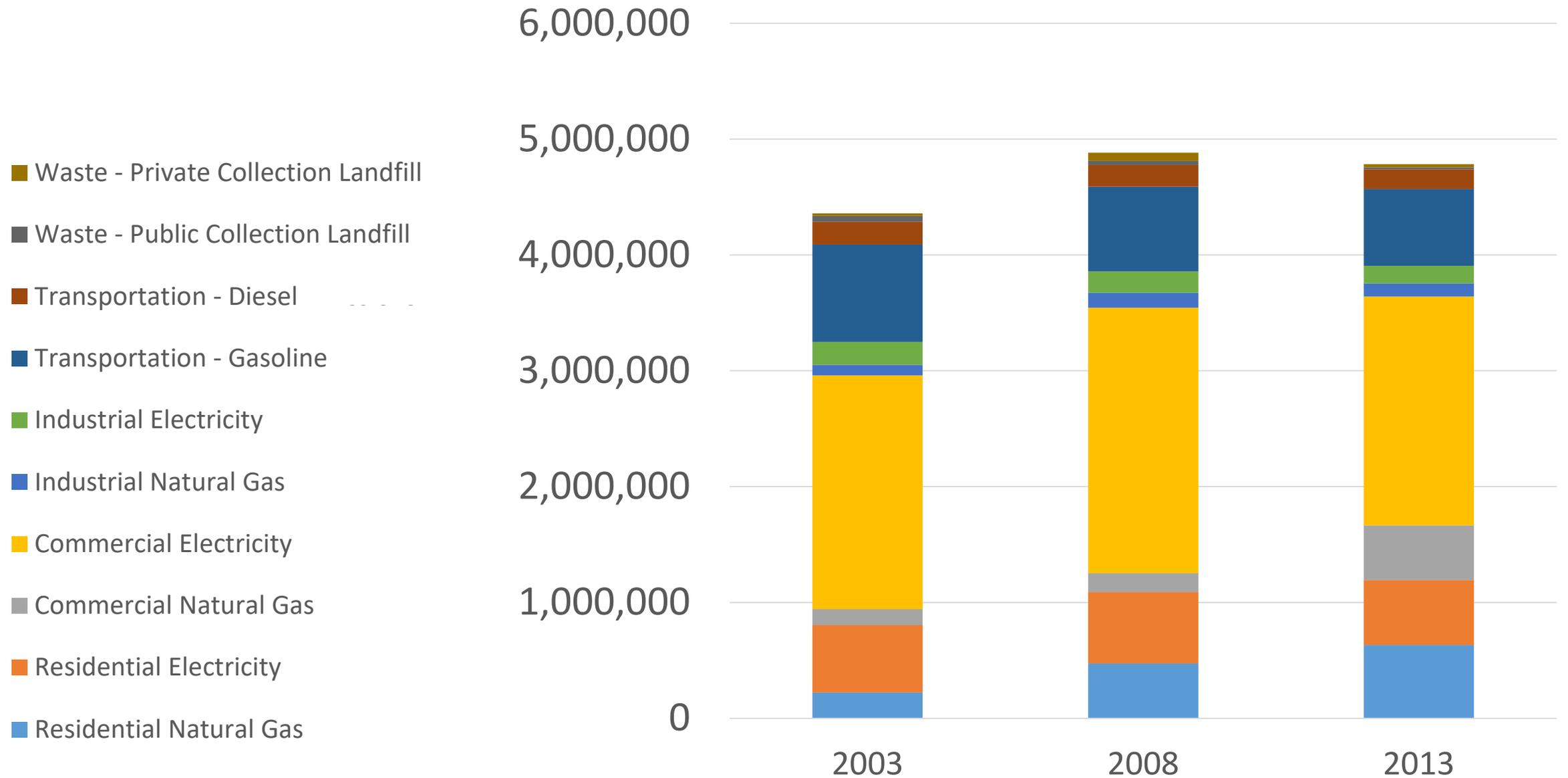


Sources of energy for the City of Pittsburgh grid

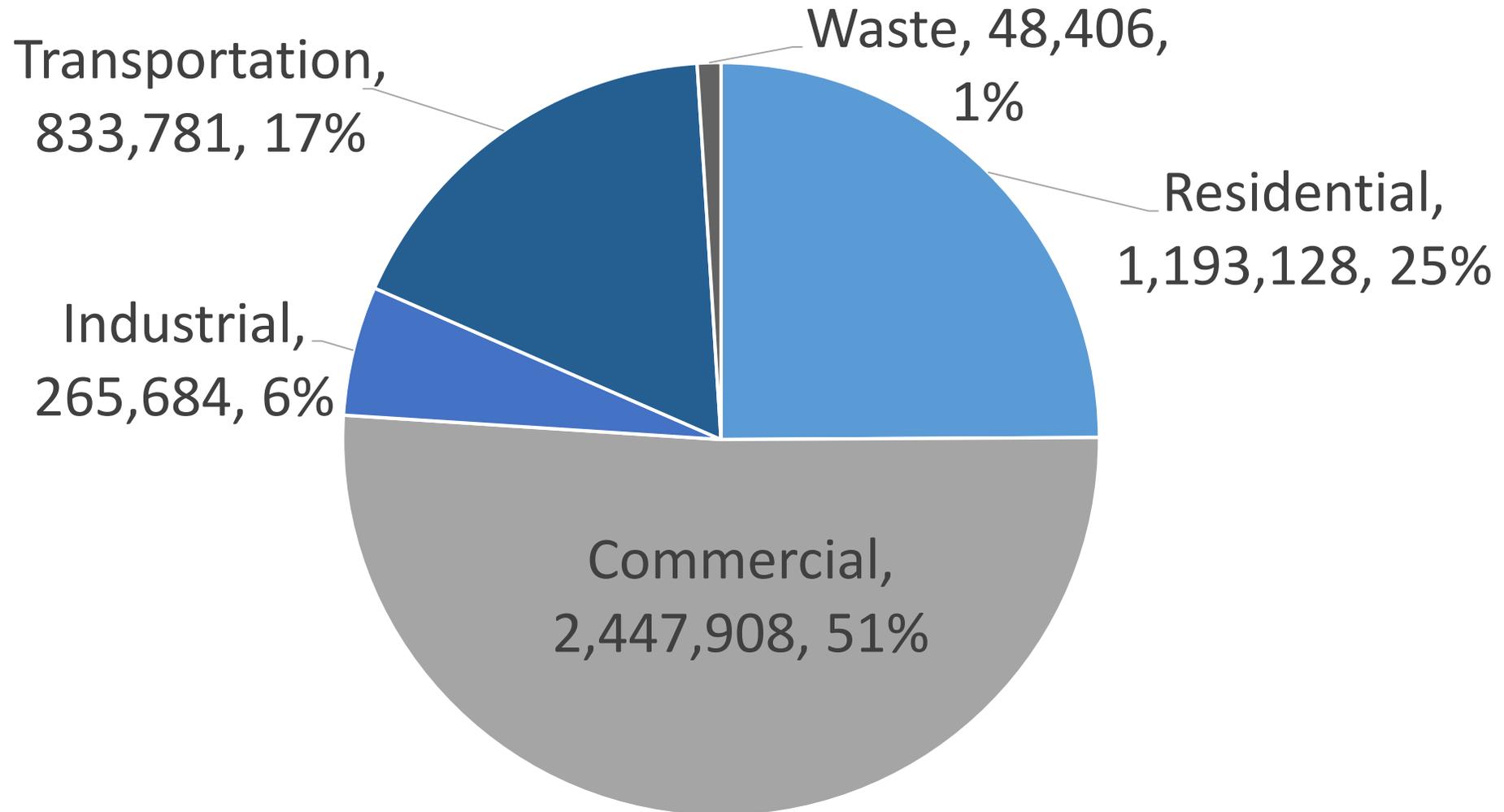
Generators within the Duquesne Light Company Service Territory

Generator	GenerationType	Output (MW)	Percent (%)
Beaver Valley	Nuclear	1831	69.46
Brunot Island	Natural Gas (Peaker)	220	8.34
Cheswick	Coal	578	21.93
Patterson	Hydroelectric	2	0.27
Townsend	Hydroelectric	5	
Total MW		2636	

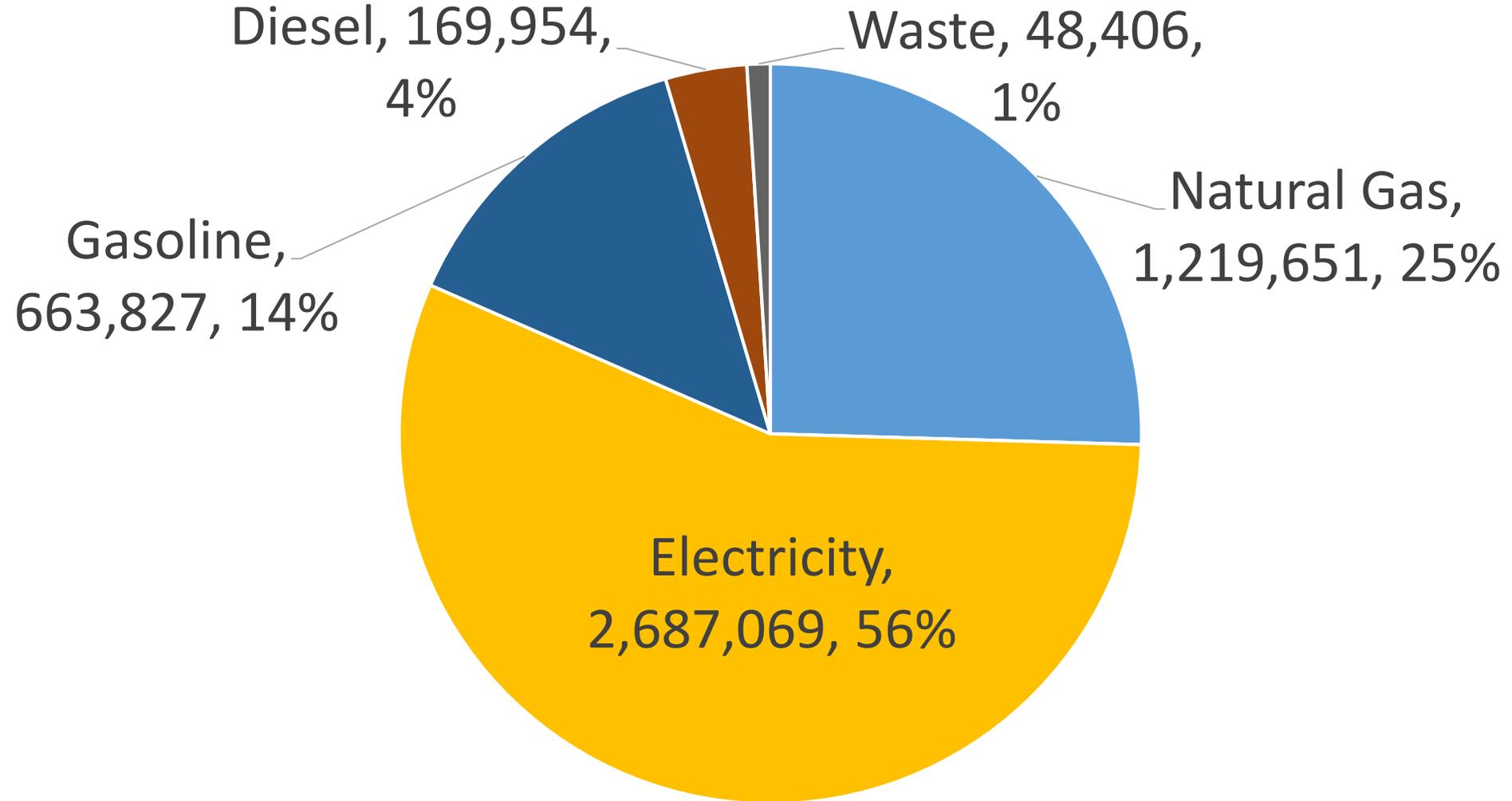
Weather Normalized Emissions



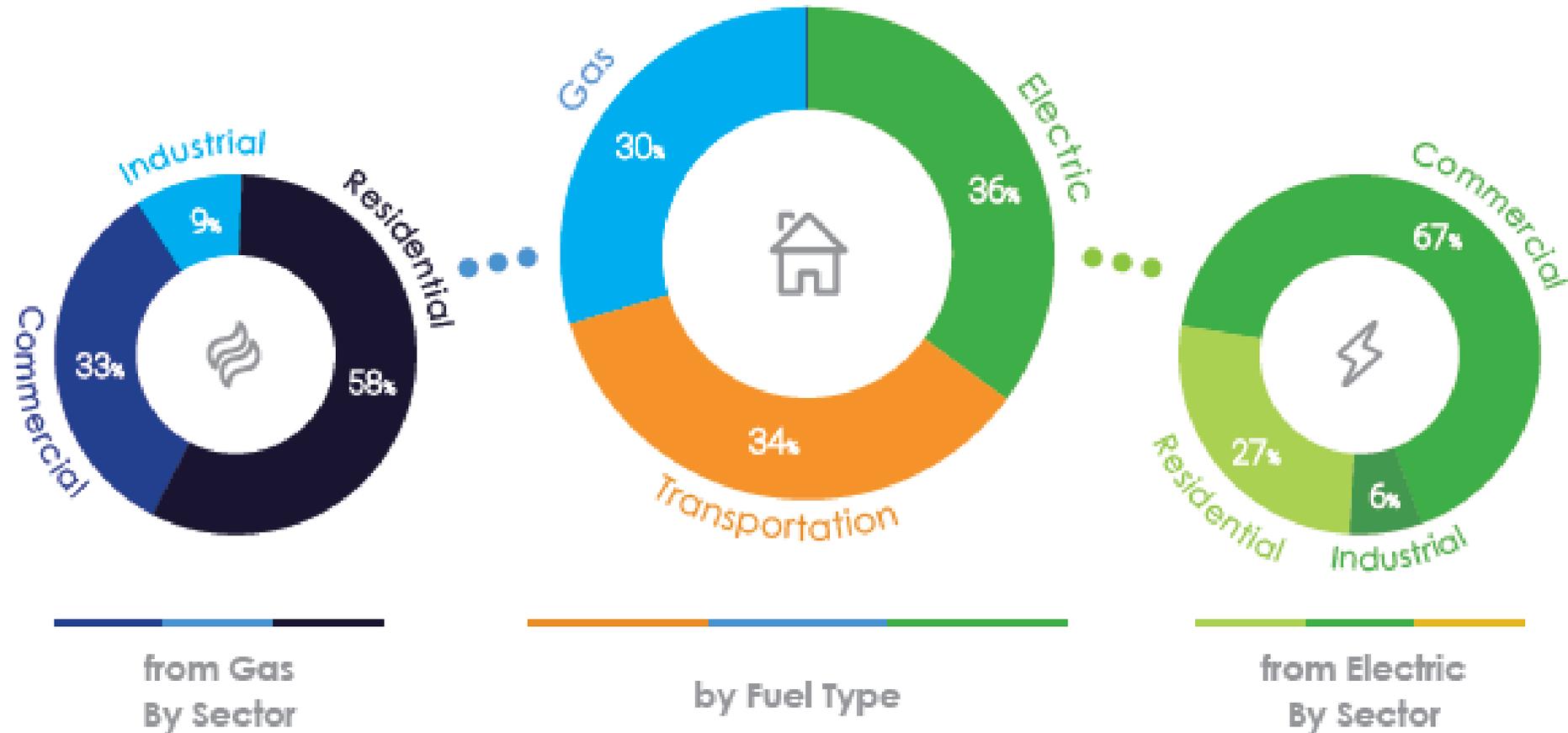
Weather Normalized Sector Breakdown



Weather Normalized Source Breakdown



2013 Greenhouse Gas Emission Breakdown

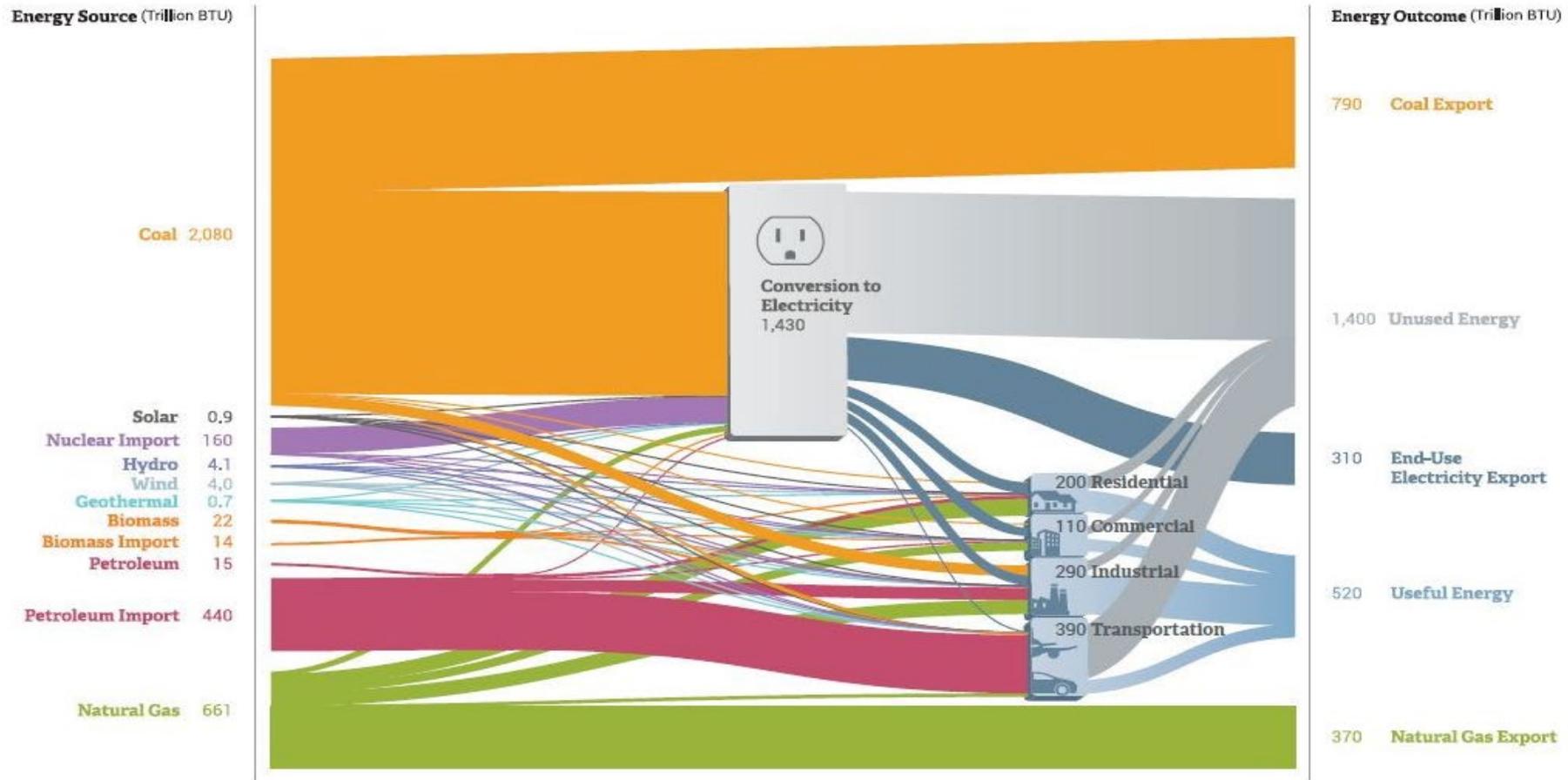


*Transportation emissions are estimated should be considered only to be of this general order of magnitude

Energy Lost in Transmission + Distribution

Regional Energy Flow: Production, Consumption, Net Imports/Exports, and Losses

Power of 32 Region - uniting Pittsburgh and 32 counties across western Maryland, eastern Ohio, southwestern Pennsylvania, and northern West Virginia
Year 2011 Data



Source: Sustainable Pittsburgh 2014. Format for this energy flow chart is adapted from the Lawrence Livermore National Laboratory's (LLNL) US National Energy Flow Chart. The data were derived primarily from 2011 county-level data published by the Energy Information Administration (EIA), the U.S. Department of Agriculture, which represents the most comprehensive local data available. For more information on the complete data sources and methodology to prepare the estimations for the Power of 32 region, see pages 18-19 of the full report at www.energy4p32.org.

What is resilience?

100 Resilient Cities defines urban resilience as the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience.

Urbanization, Globalization & Climate Change

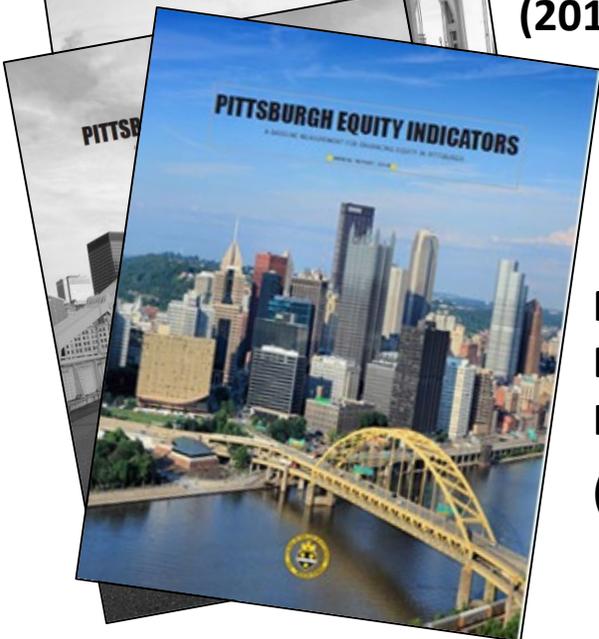
Pittsburgh's focus on resilience



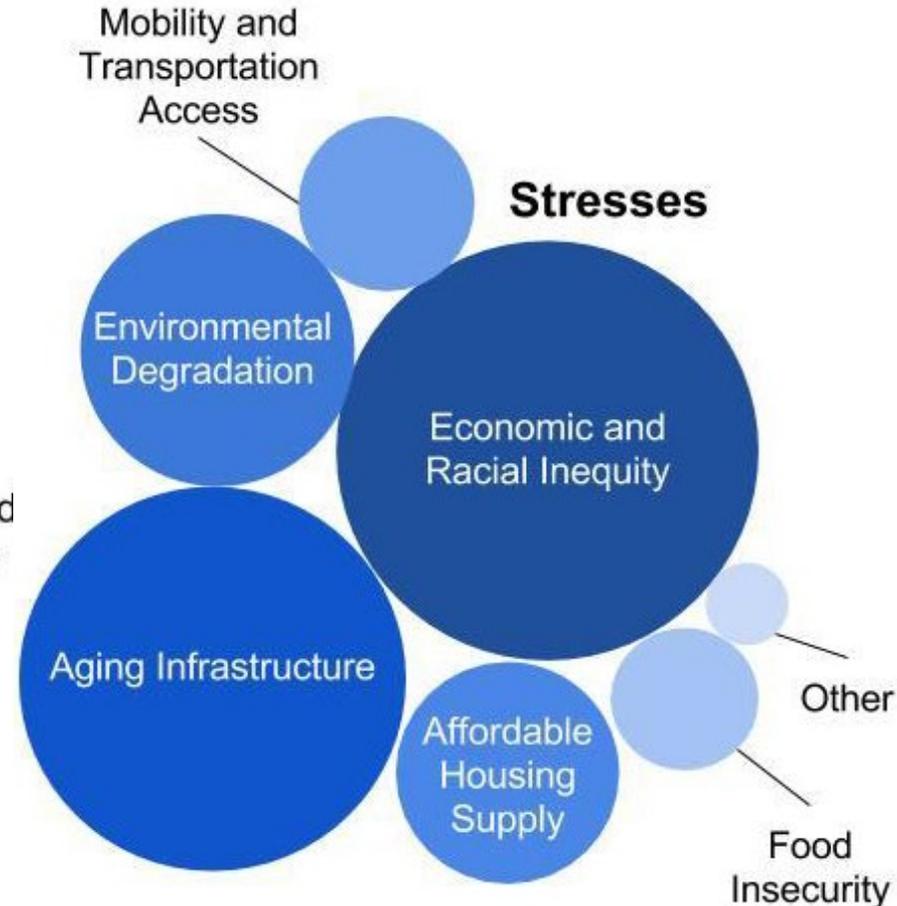
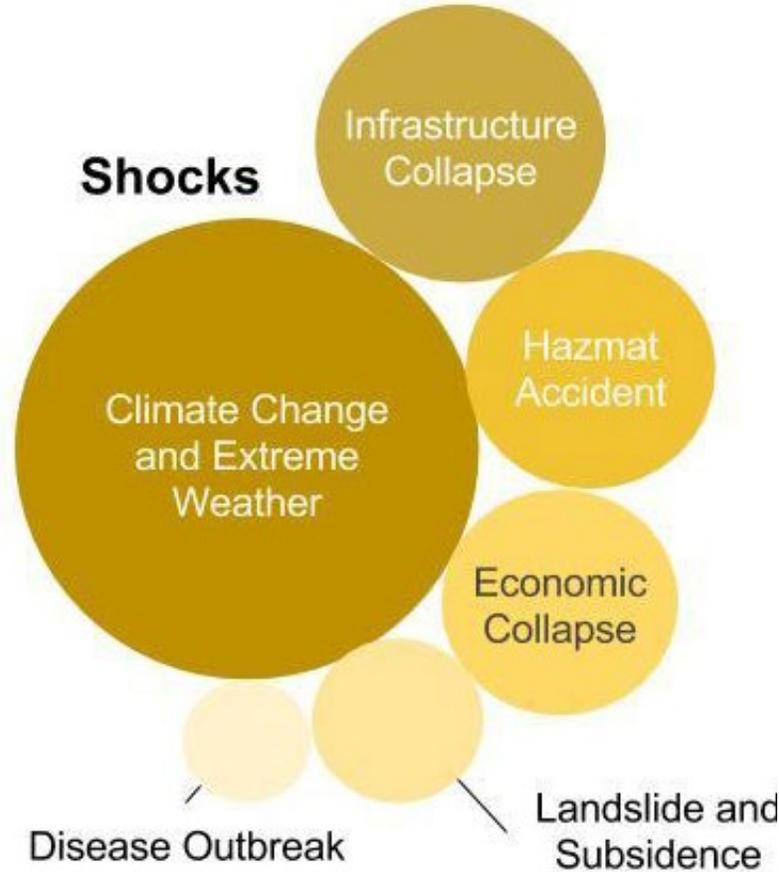
Preliminary Resilience Assessment (2016)



ONEPGH Resilience Strategy (2017)



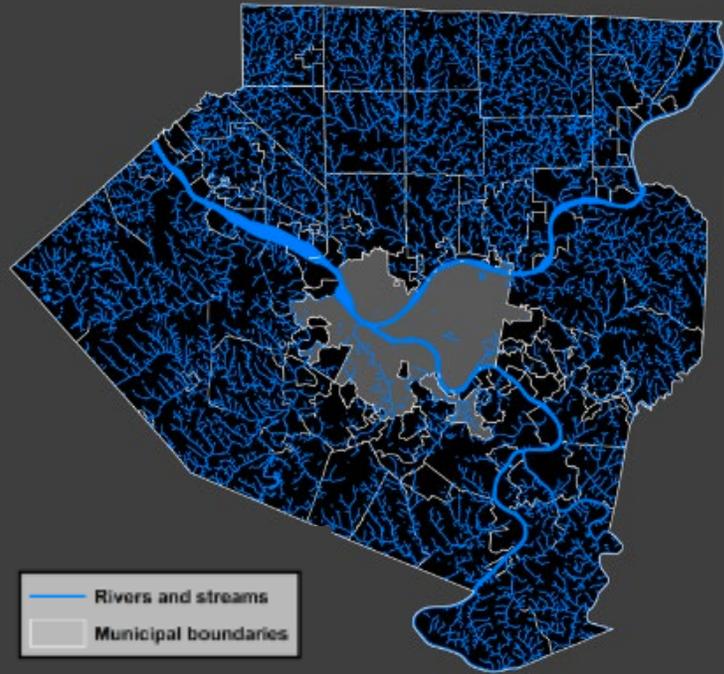
Pittsburgh Equity Indicators (2018 + 19)



Impacts of Climate Change in PGH

STRESS

Aging
Infrastructure



SHOCK

Climate Change:
Warming and
wetting, increased
rainfall frequency,
intensity and duration



IMPACT

Infrastructure failure,
flooding

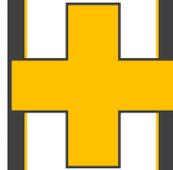
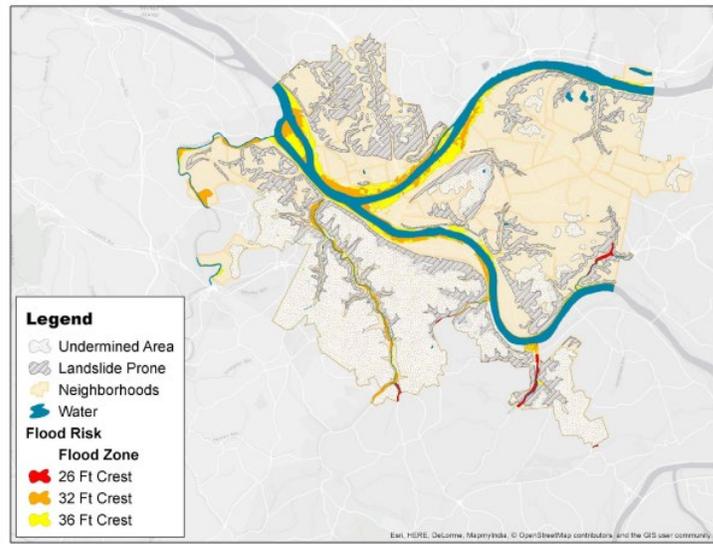


Impacts of Climate Change in PGH

STRESS

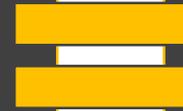
Fragile hillsides, aging infrastructure

Figure 4.2 Map of Pittsburgh Landslide, Sinkhole and Flood Risk



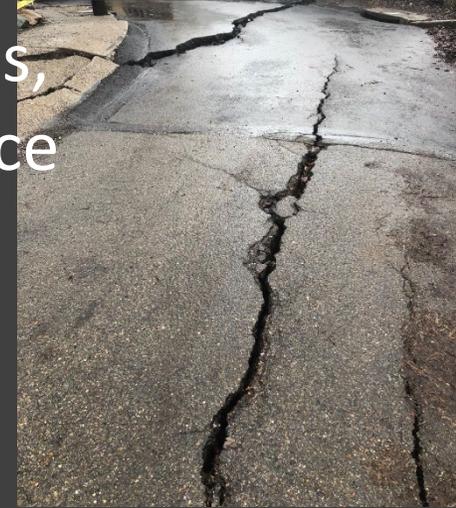
SHOCK

Climate Change:
Warming and wetting, increased rainfall frequency, intensity and duration



IMPACT

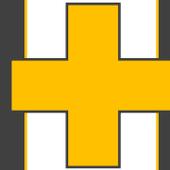
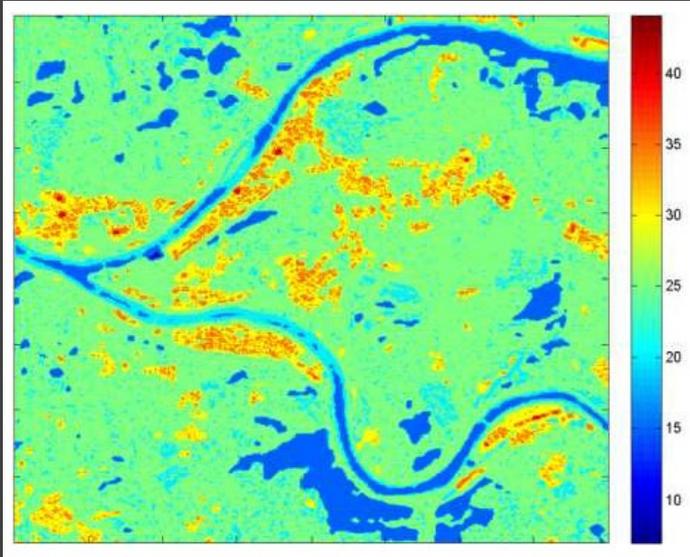
Landslides, Subsidence



Impacts of Climate Change in PGH

STRESS

Urban heat island, aging infrastructure



SHOCK

Climate change and extreme weather: increased temperatures lead to increased energy consumption



IMPACT

Extended grid failure, disruption of services, poor air quality, increased emergencies



District Energy in Pittsburgh



Addressing energy burden improves health



- **Energy Burden** is the percentage of gross household income spent on energy costs
- **Pittsburgh residents pay almost twice the national for energy although utility costs for energy and gas are among the lowest nationally**
- 6th worst city in the country with residents suffering from Energy Burden, second worst for African Americans experiencing Energy Burden
- ACEEE reports note a 15% decrease in Pittsburgh's energy consumption could result in healthcare savings of \$200 per capita



Energize

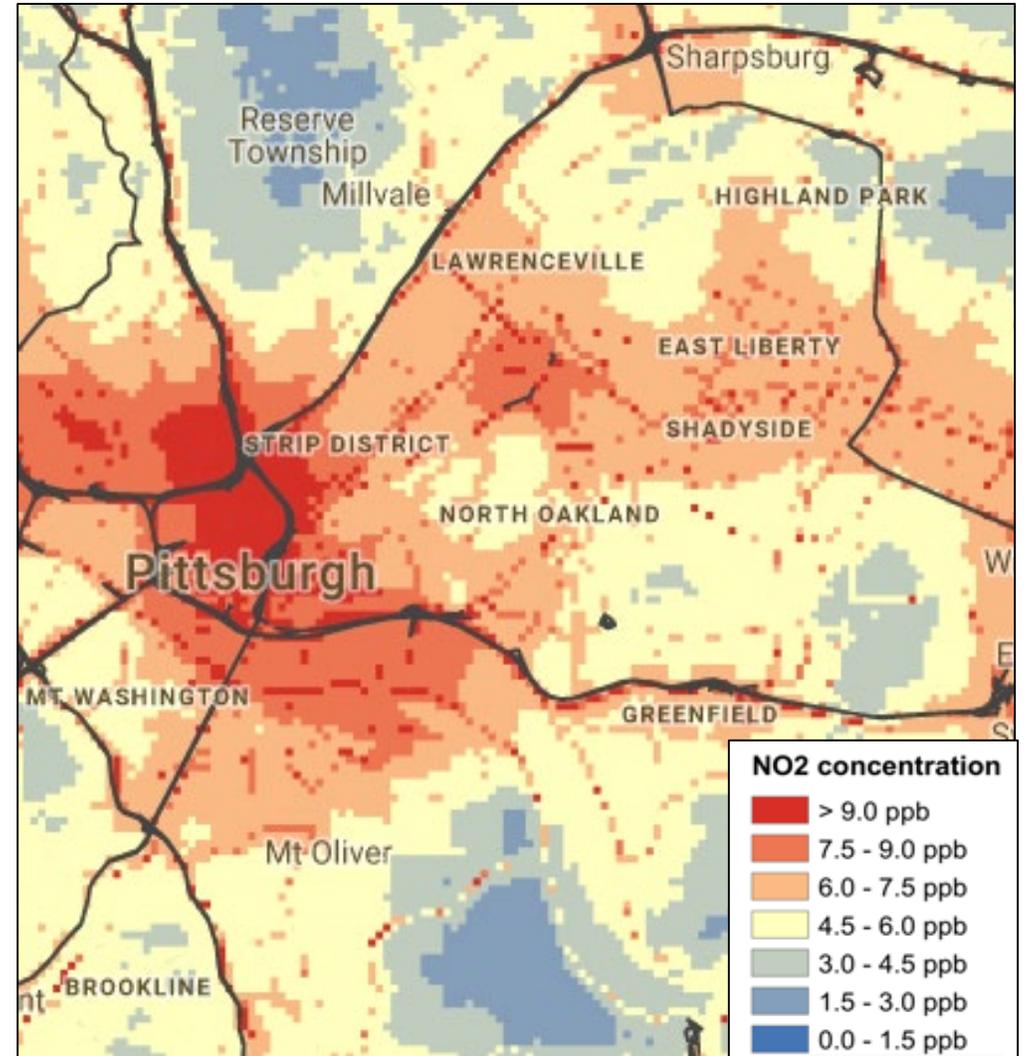
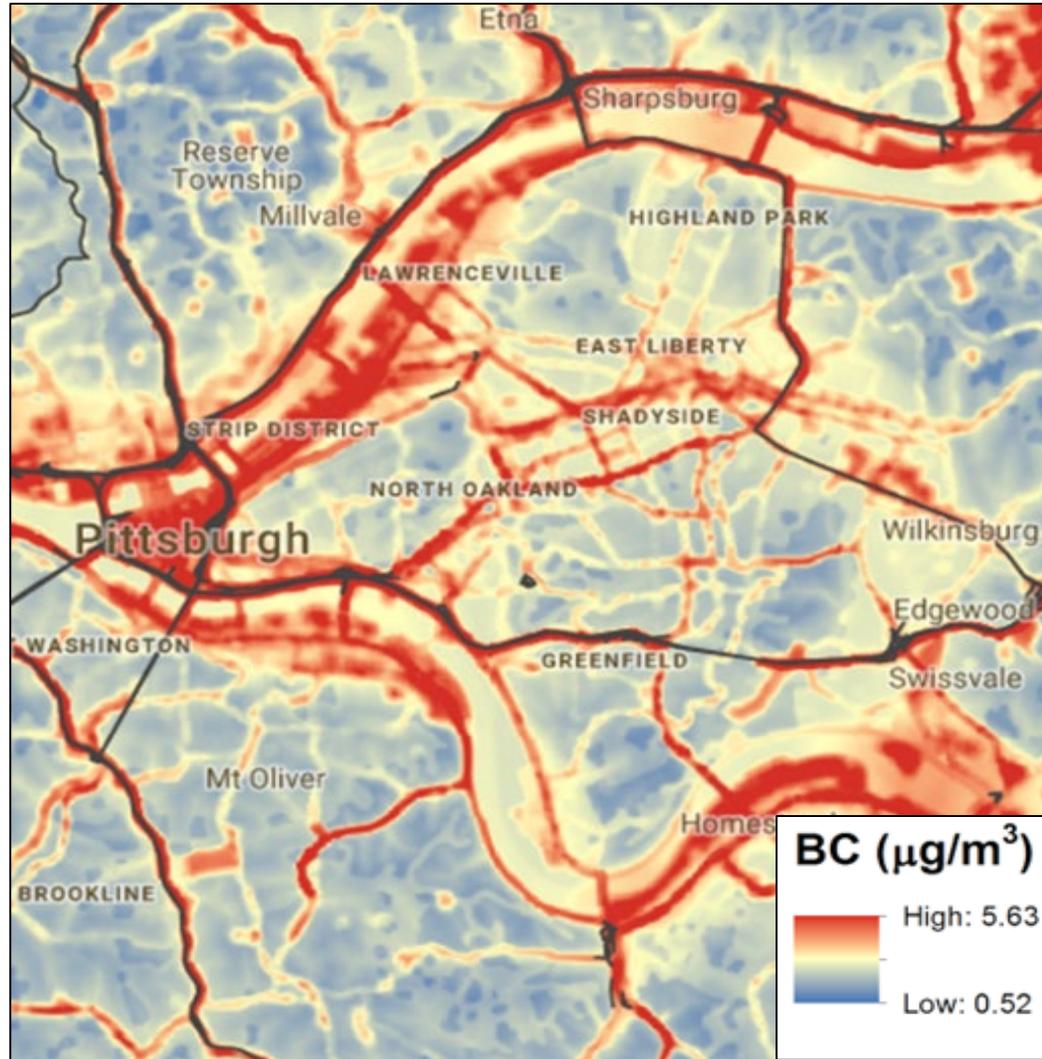
Oakland Neighborhood Planning Education Series



SUSTAINABILITY AND RESILIENCE DIVISION
DEPARTMENT OF CITY PLANNING

ONEPGH
RESILIENT PITTSBURGH

Transportation emissions impact air quality



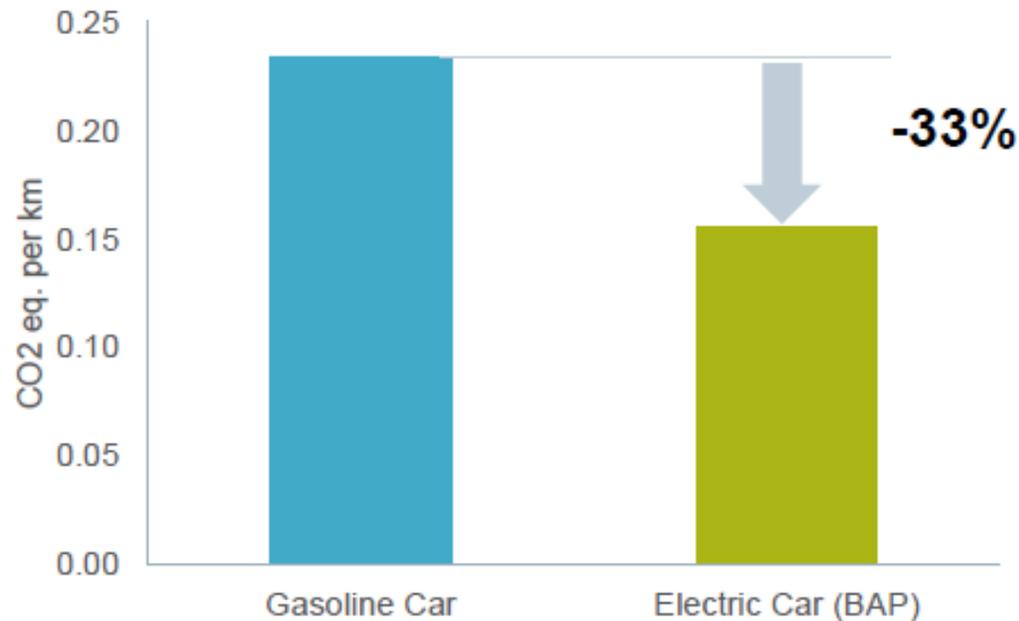
Source: Albert Presto/CMU/Breathe Project

Environmental Impacts

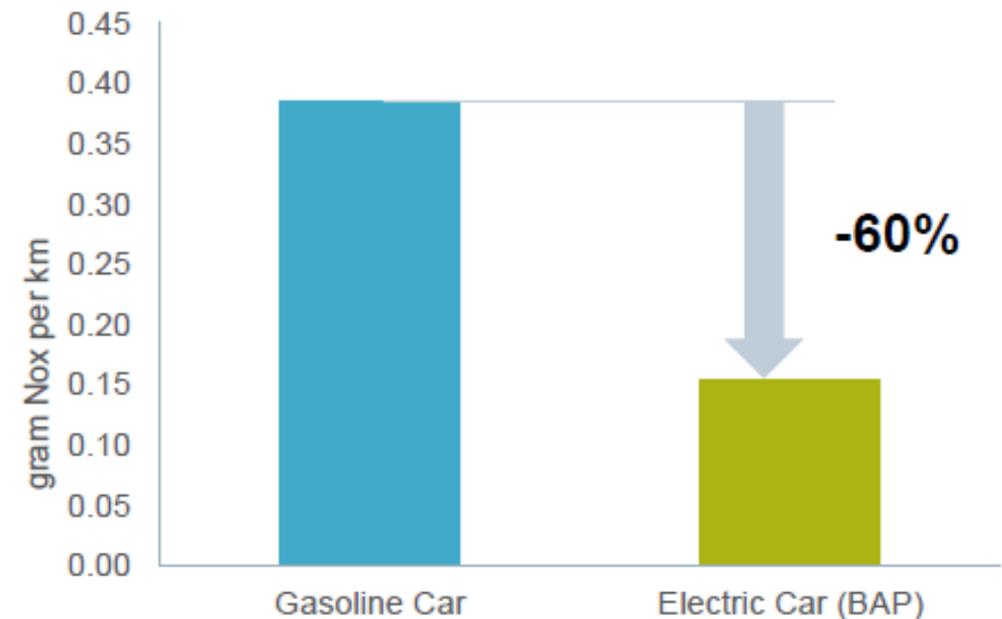
Gasoline Car Vs. Electric Car

Electric cars in Pittsburgh would have lower emissions as compared to gasoline cars
33% reduction in **CO₂ eq.** emissions per km
60% reduction in **NOx** emissions per km

CO₂ eq. emissions per km



NOx emissions per km

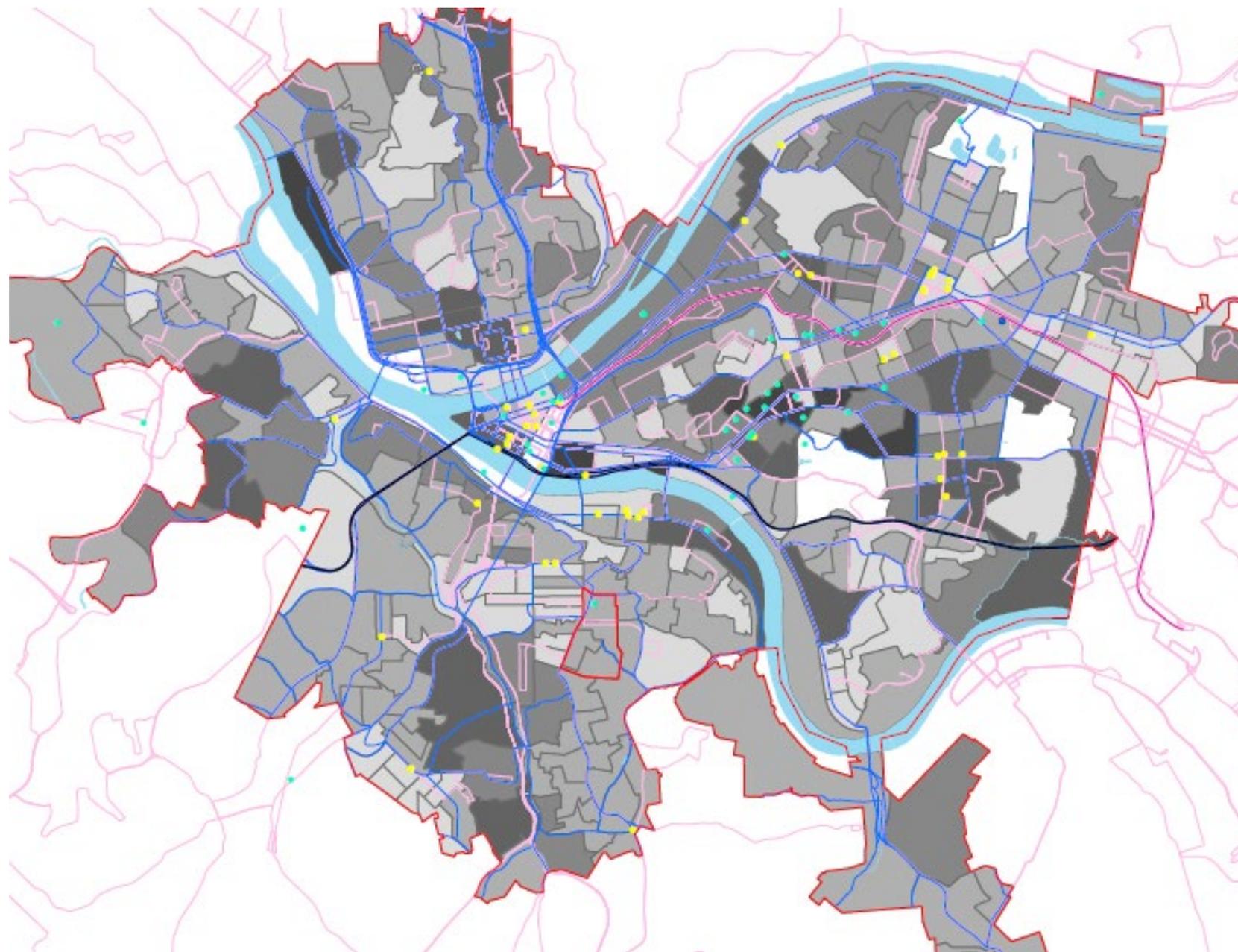
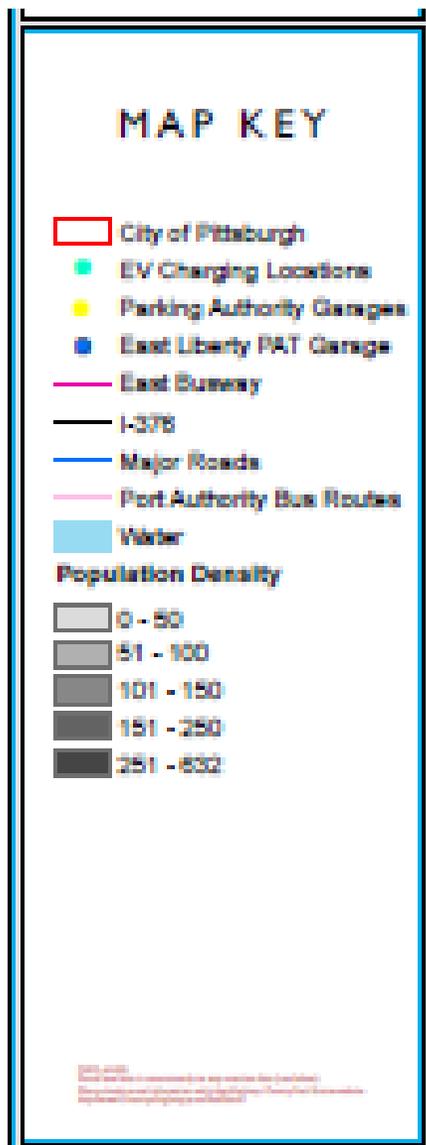


Electrification Goals

EV Task Force formed September, 2018 to enable EV adoption city-wide.

Audience	Needs	Strategy
Municipal Fleet	Purchase and deploy vehicles	Start with sedans and existing infrastructure
	Purchase and deploy charging infrastructure	Couple with renewable energy generation, ensure ease of use
Other Fleets (car share, taxis, private businesses, etc.)	Enable and incentivize charging infrastructure development for fleets operating in City of Pittsburgh	DC fast charging in convenient locations for taxis
		Find opportunities to share fleet charging infrastructure with gov't or residential
Residential	Enable charging opportunities for residents (esp. those without driveways)	Permitting within the right of way, neighborhood hubs for level 2 and DCFC
	Reduce "range anxiety" for long trips	DC fast charging along interstates and main thoroughfares

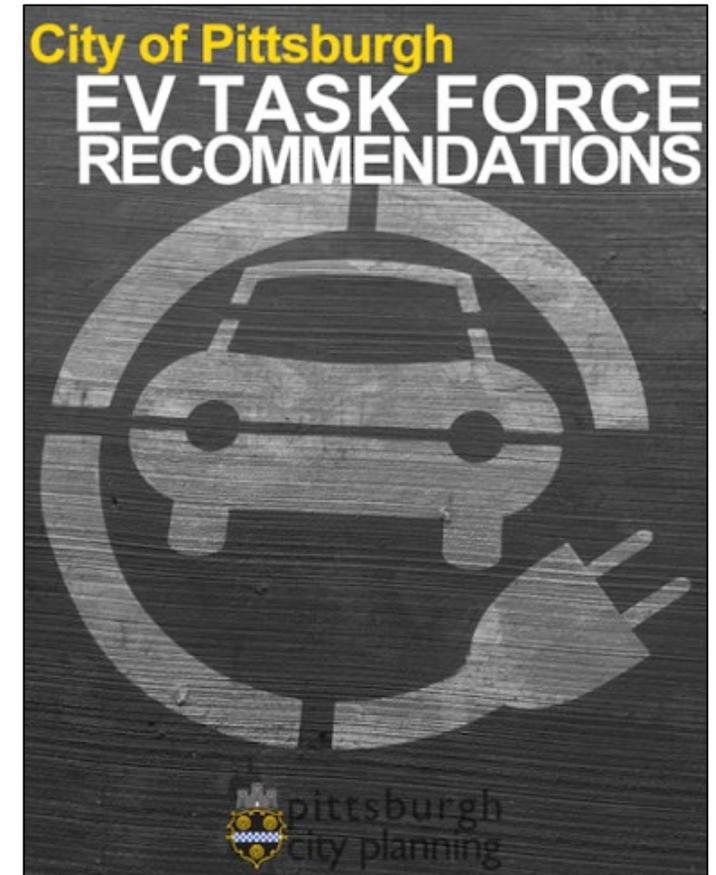
Existing charging infrastructure in Pittsburgh



EV Task Force Recommendations

*EV's include not just passenger cars and trucks, but electric bikes, scooters, busses and industrial/freight trucks.

- **Residential on-Street charging pilots to determine policy**
 - Typologies based on density and parking permits
 - City-owned
 - Resident permitted to use cords or install in right of way
- **Commercial district on-street charging**
- **EV readiness in new construction**
- **Neighborhood e-charging hubs**
- **Coupling with on-site renewable energy**



THANKS!

Rebecca Kiernan
Resilience Planner
rebecca.kiernan@pittsburghpa.gov

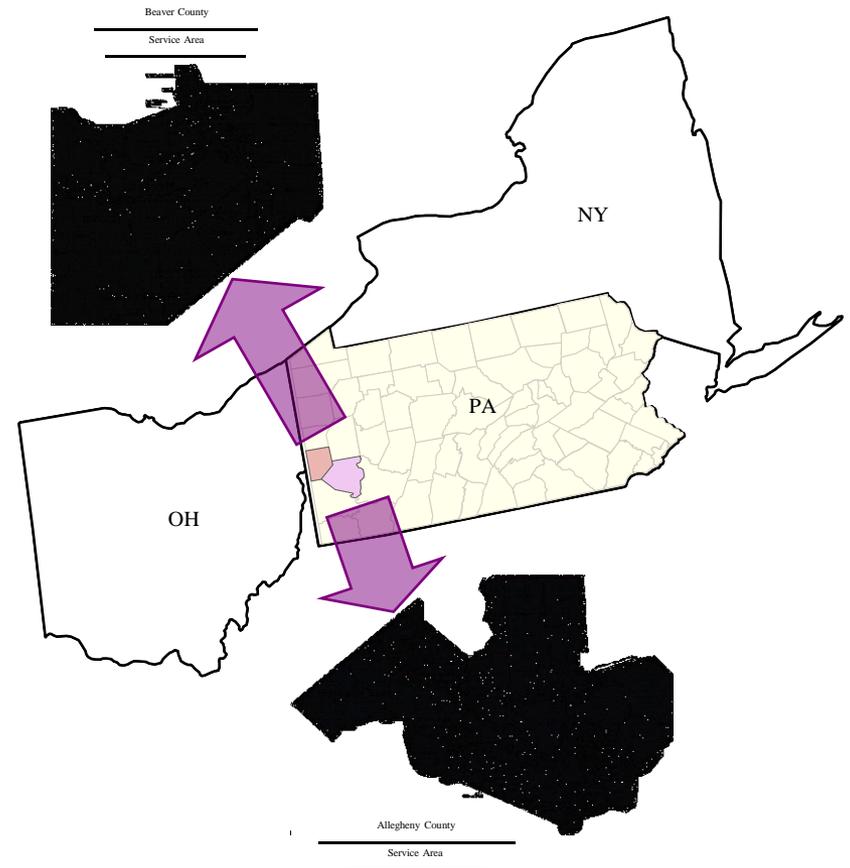
Energy and the Consumer

Krycia Kubiak



DLC Introduction

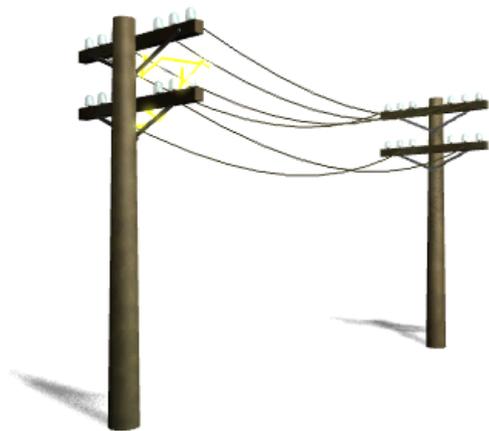
- Western PA Service Territory
 - Allegheny County
 - Beaver County
- 817 Square Miles
- 600,641 Customers
 - Residential
 - Commercial
 - Industrial
- All Time Peak Load
 - 3,054 MW (June 2012)
- Peak Load 2018
 - 2,796 MW (September)



DLC Introduction

DLC operates as a privately owned **Non-Vertically Integrated** utility

What does that mean?



- ✓ We do not own generation.
- ✓ We maintain and operate the poles and wires.
- ✓ We provide customers with reliable, safe, and affordable electricity.

Nearby Power Station

Beaver Valley

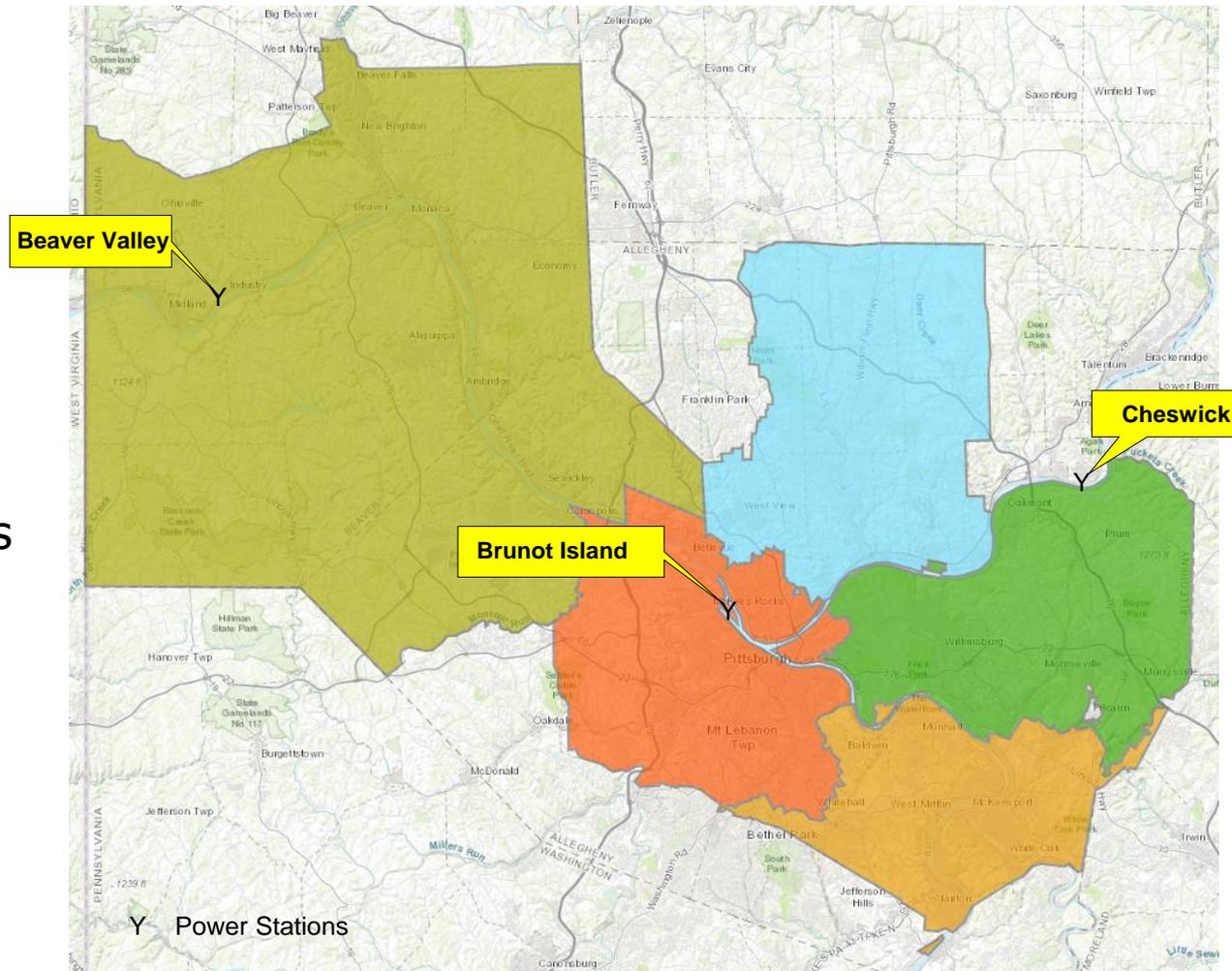
of Units: 2
Capacity: 1,800 MW
Fuel: Nuclear

Brunot Island

of Units: 5
Capacity: 290 MW
Fuel: Natural Gas
Black Start: Diesel

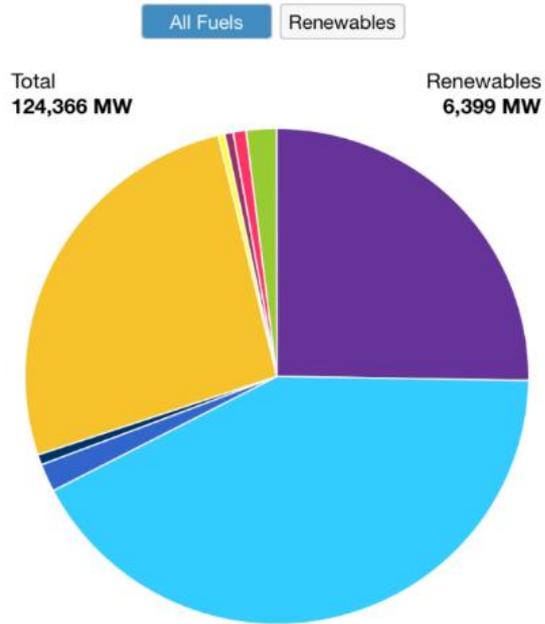
Cheswick

of Units: 1
Capacity: 590 MW
Fuel: Coal

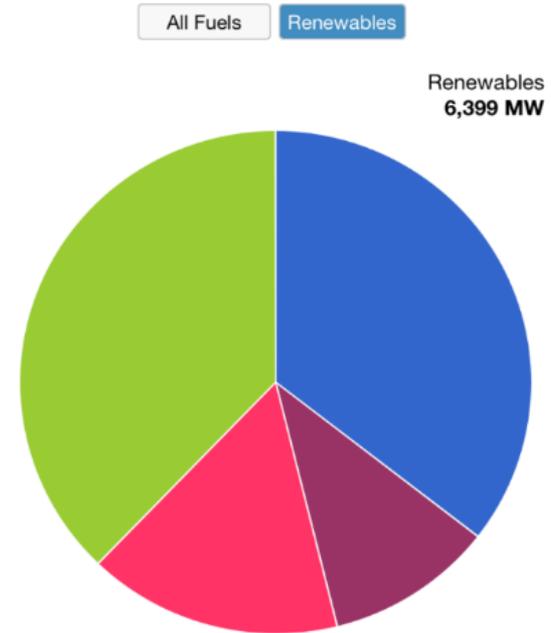


The Grid – PJM Fuel Mix

As of August 8, 2019 12:00 p.m. EPT

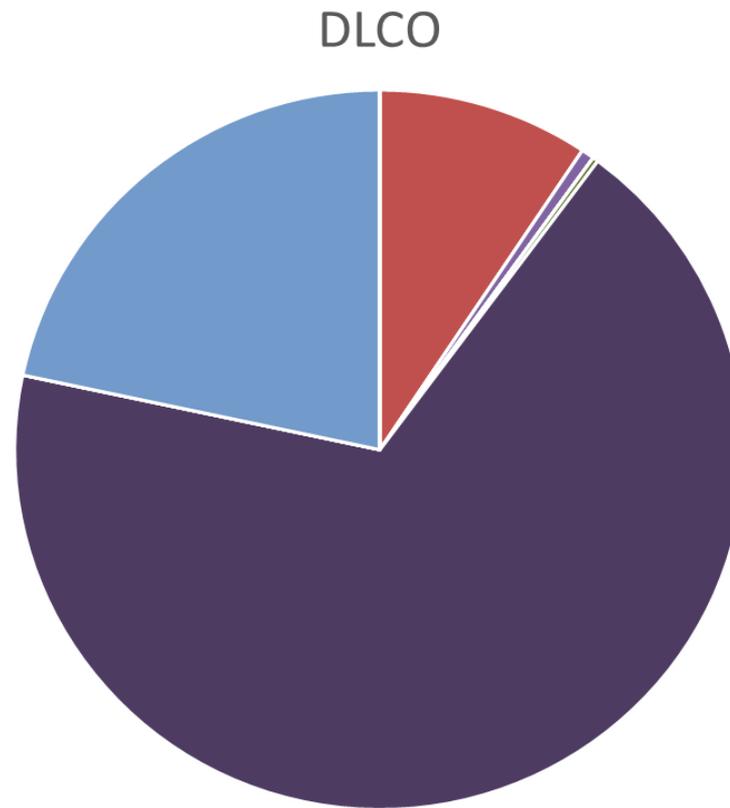


As of August 8, 2019 12:00 p.m. EPT



The Grid – Region Fuel Mix

Installed Capacity for DLC Zone - As of June 30, 2018, provided by PJM

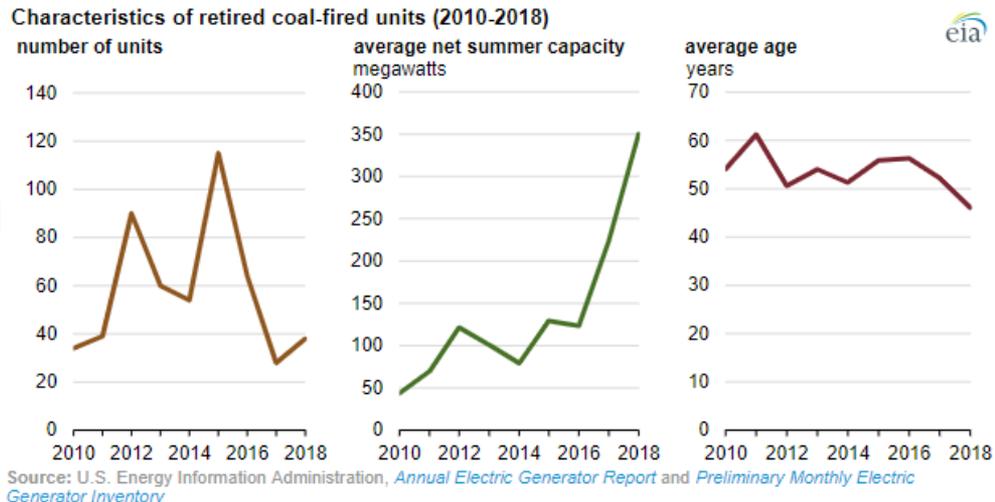


**≈ 70% nuclear
carbon-free
generation**

■ CCGT ■ CT -Other ■ Hydro-Run of River ■ Nuclear ■ Steam - Coal

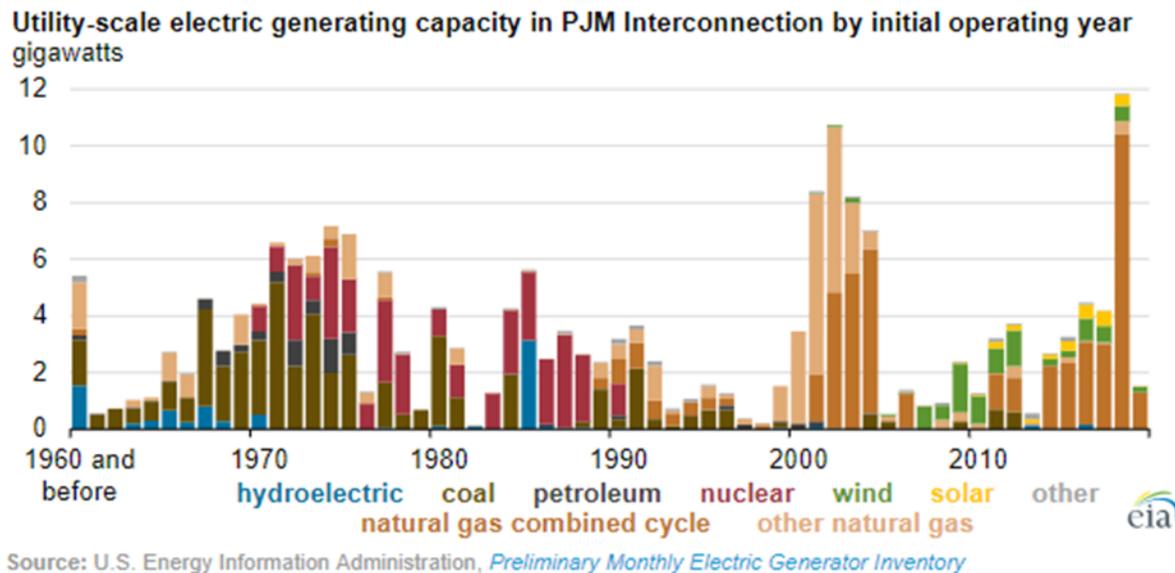
Decrease Coal

Decommissioning Coal-Fired Power Plants

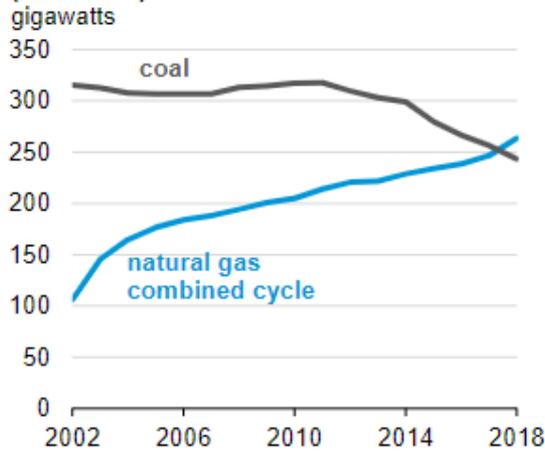


Changes to the Grid

Decreasing emissions



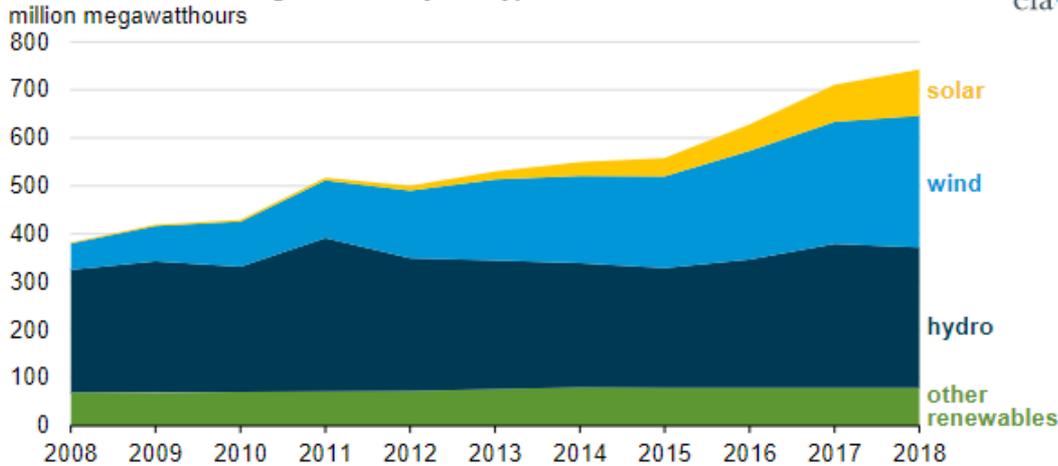
Annual U.S. electricity generating capacity (2002-2018)



Source: U.S. Energy Information Administration, *Annual Electric Generator Report* and *Preliminary Monthly Electric Generator Inventory*

1

U.S. annual renewable generation, by fuel type



Source: U.S. Energy Information Administration, *Electric Power Monthly*



2

2018: Renewables provided 17.6% of electricity generation

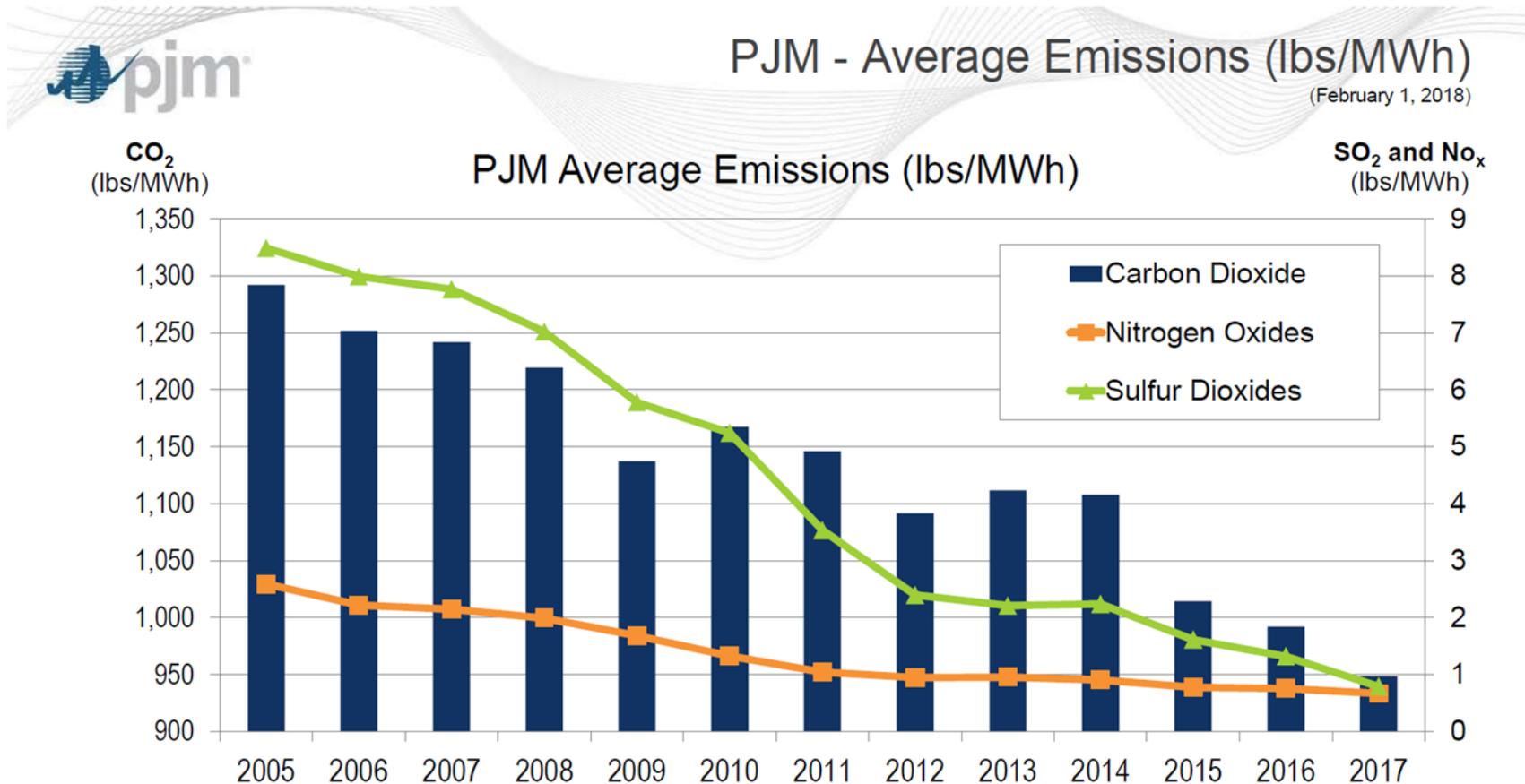
Combined Cycle Natural Gas

- Fuel conversion efficiency of 50% or more
 - burn about half the amount of fuel as a conventional power plant to generate the same amount of electricity
- Less fuel per kWh causing lower GHG emissions than traditional coal power plant
 - Emits about half the amount of CO2 compared to coal

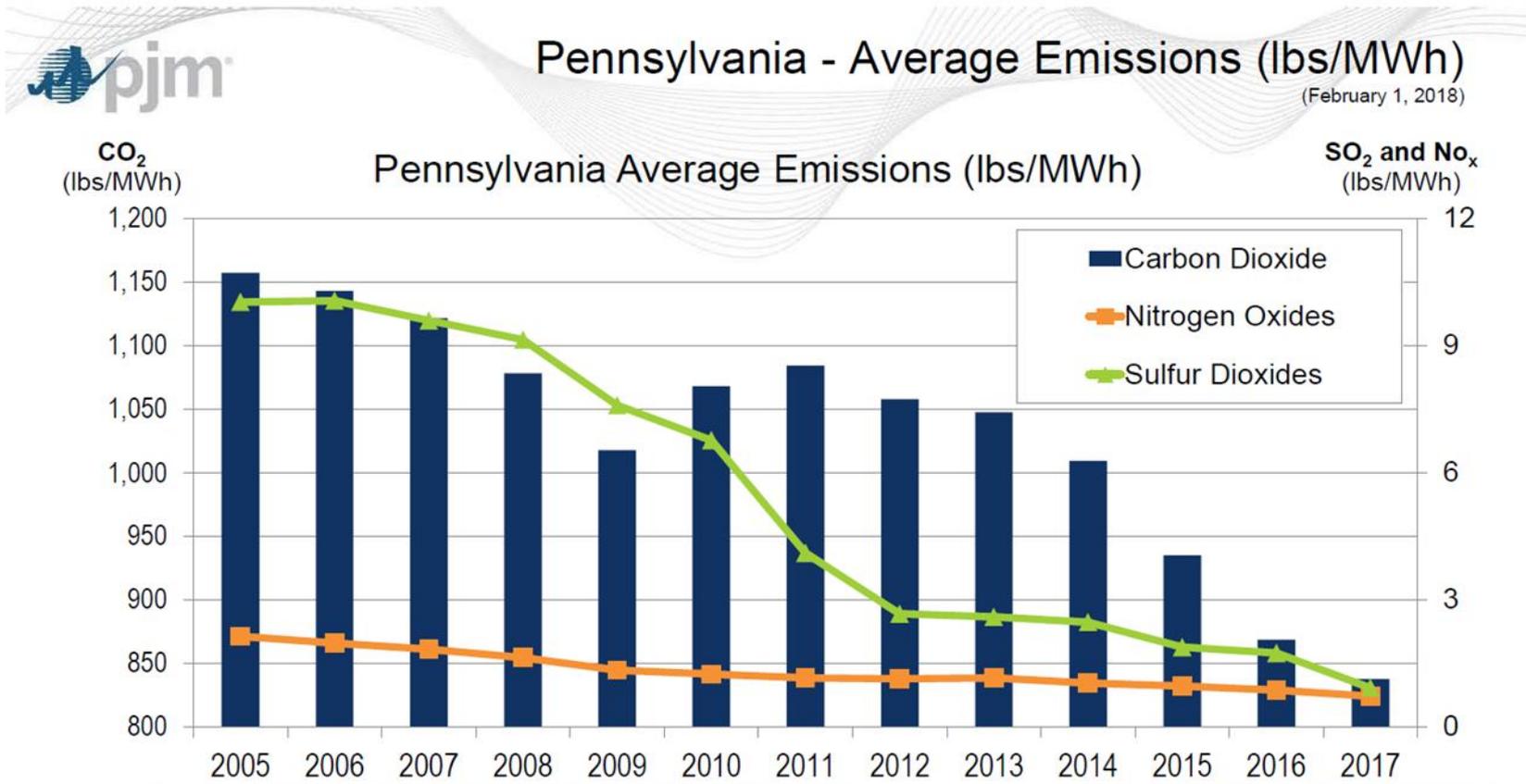
Pounds of CO2 emitted per million British thermal units (Btu) of energy for various fuels

Coal (anthracite)	228.6
Coal (bituminous)	205.7
Coal (lignite)	215.4
Coal (subbituminous)	214.3
Diesel fuel and heating oil	161.3
Gasoline (without ethanol)	157.2
Propane	139.0
Natural gas	117.0

PJM Emissions



Pennsylvania Emissions



DLC and Renewable Energy

As of July 2019

Total Connected Net Metered Customers – 2,721

Total Connect Net Meter Capacity – 24.133 MW

Promoting PA Local Solar Act sponsored by Sen. Jay Costa

“In the near future, I will introduce legislation that expands access to solar power in Pennsylvania through a localized renewable program, while also assuring adequate ratepayer protections.”

Last year, DLC sourced credits representing 281,270 MWh of electricity from renewable sources*

** This number accounts for Tier I and solar energy credits, sourced between June 1, 2017-May 31, 2018. DLC sourced another 334,141 MWh worth of energy credits from Tier II “alternative” energy sources.*

Renewable Energy Purchasing

PA Power Switch

Visit papowerswitch.com

The image shows a Google search for 'papowerswitch' on the left and a screenshot of the electricityrates.com website on the right. A red arrow points from the search results to the website screenshot.

Google Search Results:

- Search: papowerswitch
- Results: About 27,300 results (0.36 seconds)
- Result 1: **PAPowerSwitch.com | Lock in a Low Rate for 36 Mos**
www.electricityrates.com/
Want the best electricity rate? Compare rates in under a minute and save.
Compare Rates · Great Rates Available
- Result 2: **Compare PA Electricity Rates | Choose The Best Price**
www.powersetter.com/Pennsylvania/electricity
★★★★★ Rating for powersetter.com: 4.8 - 1,637 reviews
Compare All Pennsylvania Electric Suppliers And Choose The Cheapest Supplier!
- Result 3: **PAPowerSwitch.com | PAPowerSwitch: | Electricity Shopping Site**
www.papowerswitch.com/
Comparing & switching electricity suppliers is easy with our website. See how! Low Price. Shop Online. Highlights: Industry Experts Available, Providing Cost-Effective Programs.
Get For Large Business · Buy For Small Business · FAQs · Shop For Home · File A Complaint
- Result 4: **PA Power Switch**
<https://www.papowerswitch.com/>
Depending on where your home or business is within PA, you have the power to choose your electric supplier. Compare, switch and save on your electricity bill ...
- Result 5: **Shop for Your Home**
You have the power to shop for your home's electricity supplier ...
- Result 6: **List of Suppliers**
View the current list of electricity suppliers within PA. Then ...
- Result 7: **How to Shop & Switch**
In three easy steps, you can compare, shop and switch to a ...
- Result 8: **More results from papowerswitch.com >**
- Result 9: **Switching Suppliers**
About Switching Electric Suppliers in PA. When you choose an ...
- Result 10: **Shop for Your Small Business**
You have the power to shop for your small business' electric ...
- Result 11: **Ways to Save Energy**
View PAPowerSwitch's energy-saving tips that will help you ...

electricityrates.com Website Screenshot:

- Header: Electricity Rates
- Main Content: WANT THE BEST ELECTRICITY RATES? COMPARE ELECTRICITY RATES IN UNDER A MINUTE.
- Form: Enter Zip Code, COMPARE RATES
- Footer: Switch with Confidence, How to Switch (1. ENTER ZIP CODE, 2. COMPARE PROVIDERS, 3. SWITCH AND SAVE)

Not the correct link

Renewable Energy Purchasing

PA Power Switch

Visit papowerswitch.com

The image shows a Google search for 'papowerswitch'. The search results include several links to the website, such as 'PAPowerSwitch.com | Lock in a Low Rate for 36 Mos' and 'Compare PA Electricity Rates | Choose The Best Price'. A red arrow points to the search result for 'PA Power Switch' with the URL <https://www.papowerswitch.com/>. To the right, a preview of the website is shown, featuring a house at night and the headline 'Switching power is easier than ever.' The website content includes a welcome message from the Pennsylvania Public Utility Commission (PA PUC) and information about choosing an electric supplier.

Correct link

PA Power Switch

*Duquesne Light does not endorse any specific supplier

The screenshot shows the PA Power Switch website. The header includes the logo and navigation links: "Tell a Neighbor", "Rate Change Alerts", "File a Complaint", "En Español", "FAQ", "Glossary", and social media icons. The main navigation bar contains: "Shop for Electricity", "About Switching", "Understanding Rates and Terms", "Rights & Protections", and "Ways to Save Energy". The main content area features a large image of a house at night with the headline "Switching power is easier than ever." Below this, there is introductory text and a form with a "ZIP CODE" input field and a "GO" button. A red oval highlights the form area. To the right of the form, the text "Fill in your zip code" is written. At the bottom, there is a link to "Download detailed report (PDF)".

PA Power Switch
Pennsylvania Public Utility Commission
The Official Electric Shopping Website of the Pennsylvania Public Utility Commission

Tell a Neighbor | Rate Change Alerts | File a Complaint | En Español | FAQ | Glossary | [Social Media Icons]

Shop for Electricity | About Switching | Understanding Rates and Terms | Rights & Protections | Ways to Save Energy

Switching power is easier than ever.

Welcome to the official electric shopping website of the Pennsylvania Public Utility Commission (PA PUC).

Depending on where your home or business is within Pennsylvania, you may be able to save money on your electric bill by switching your electric supplier.

In PA, you can choose the company that generates your home or business's electricity – also known as your electric supplier. This means that you have the power to choose to switch to a competing supplier that can offer the lowest price, best price or provide a specific service you want, such as green/renewable energy.

See what options are available to you!

ZIP CODE

Are you a commercial customer?

Millions of Pennsylvanians have switched.
[Download detailed report \(PDF\)](#)

Fill in your zip code

PA Power Switch

*Duquesne Light does not endorse any specific supplier

The screenshot shows a web browser window with the URL papowerswitch.com. The page title is "Your Results". Below the title, it states "YOUR ELECTRIC DISTRIBUTOR IS DUQUESNE LIGHT". A large heading on the left says "Select your customer class". To the right, it asks the user to "Please select your rate schedule, which you can find just above your charges on your bill:" and lists three options: "RS - Regular Residential Service", "RA - Residential Add-on Heat Pump Service", and "RH - Residential Heating Service".

Below the rate schedule options, there are three main sections:

- Education:** Represented by an icon of an open book. The text says: "Educate yourself on all aspects of the power-switching experience here, from why to switch to what questions to ask." with a link "Education »".
- Ways to Save:** Represented by an icon of a dollar bill. The text says: "There are plenty of ways to continue saving money after you've switched power companies." with a link "Learn How to Save »".
- Rate Change Alerts:** A form with input fields for "First Name", "Last Name", "Email Address", and "Zip Code", followed by a "Subscribe" button.

The footer contains the logo for "PAGasSwitch" (Pennsylvania Public Utility Commission) and the text "The Official Electric Shopping Website of the Pennsylvania Public Utility Commission". It also includes navigation links: "Contact the PUC", "About the PUC", "Terms & Conditions", and "Sitemap". The copyright notice is "Copyright ©2019 Pennsylvania Public Utility Commission. All Rights Reserved." and the PUC logo is also present.

PA Power Switch

*Duquesne Light does not endorse any specific supplier

The screenshot shows a web browser window with the URL gapowerswitch.com. The page title is "Your Results".

125 Offers

- 114 Fixed
- 9 Variable
- 2 Unlimited
- 30 Renewable Energy

YOUR DISTRIBUTOR: DUQUESNE LIGHT

\$51.87 [¢] Estimated on 700 kWh per Month

\$0.074100 per kWh

REASONS TO SHOP:

- Potential Savings
- Quick & Easy to Switch

FIND THE RIGHT SUPPLIER FOR YOU:

- [Fixed Rate Results >](#)
- [Variable Rate Results >](#)
- [Unlimited Rate Results >](#)

[See Full Results >](#)

Education

Educate yourself on all aspects of the power-switching experience here, from why to switch to what questions to ask.

[Education >](#)

Ways to Save

There are plenty of ways to continue saving money after you've switched power companies.

[Learn How to Save >](#)

Rate Change Alerts

First Name

Last Name

Email Address

Zip Code

[Subscribe](#)

Estimated price for usage
DLC price to compare
Click “See Full Results” to
see different offers
available in you area

Stable Electricity Pricing

DLC Past Pricing

Duquesne Light

1-888-393-7100

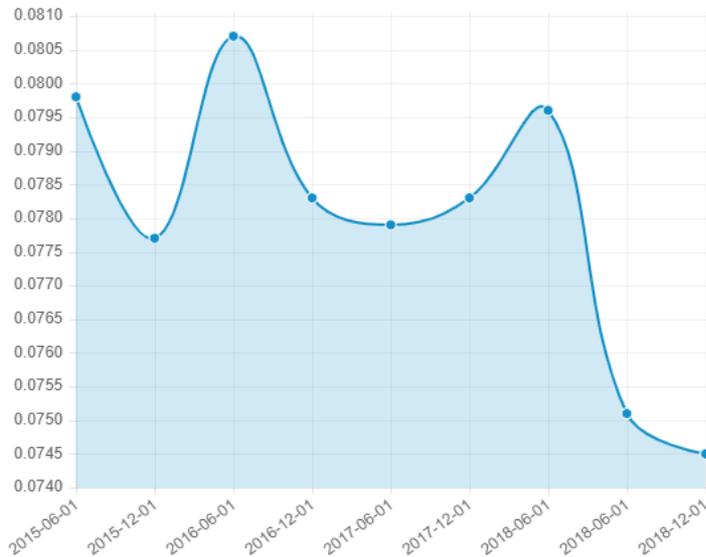
\$0.074100
per kWh

\$51.87

Estimated per Month 

Your Individual Price to Compare depends on your actual usage.
For more information, please [visit Duquesne Light's website](#).

Rate Schedule: RS - Regular Residential Service



Fluctuates less than 1¢
over 3.5 years

PA Power Switch

*Duquesne Light does not endorse any specific supplier

The screenshot shows the 'Shop for Your Home' page on papowerswitch.com. On the left, there are two filter sections: 'Price' and 'Special Programs'. The 'Price' filter has 'Fixed price' selected. The 'Special Programs' filter has 'Renewable Energy' selected. Below these are 'Terms & Conditions' and 'Unit Price' filters. On the right, two energy offers are displayed. The top offer is from Duquesne Light with a price of \$0.074100 per kWh and an estimated monthly cost of \$51.87. The bottom offer is from AEP Energy with a price of \$0.0615 per kWh and an estimated monthly cost of \$43.05. A second AEP Energy offer is partially visible below it with a price of \$0.0649 per kWh and an estimated monthly cost of \$45.43. A blue link says 'Click here to better understand what your filtering results mean.'

Filter your search...

- Fixed price
- Special programs (Renewable Energy, PA Wind, Renewable PA)

Price

- Variable price
- Fixed price
- Unlimited price

Term Length

- Any -

Terms & Conditions

- Introductory Price
- Discounts/Incentives Available

Special Programs

- Net Metering
- Renewable Energy
- PA Wind
- Renewable PA

Unit Price

\$ 0 \$ 0.2

Filter Results

Duquesne Light
1-888-393-7100
\$0.074100 per kWh
\$51.87 Estimated per Month

Your Individual Price to Compare depends on your actual usage. For more information, please visit [Duquesne Light's website](#).

Rate Schedule: RS - Regular Residential Service

This is the actual price from June 1, 2019 to November 30, 2019

[Click here to better understand what your filtering results mean.](#)

AEP Energy
1-877-648-1923
\$0.0615 per kWh
\$43.05 Estimated per Month

Price Structure: **Fixed**
Discount Available: **No**
Introductory Price: **No**
Renewable Energy: **No**

Cancellation Fee: **No**
Term Length: **No term length**
Monthly Fee: **No**
Term End Date: **December 31, 2020**
Enrollment Fee: **No**

Sign up for this Offer
[View All Offers >](#)

[Learn More About This Offer](#)

AEP Energy
1-877-648-1923
\$0.0649 per kWh
\$45.43 Estimated per Month

Price Structure: **Fixed**
Discount Available: **Yes**
Introductory Price: **No**
Renewable Energy: **No**

Cancellation Fee: **No**
Term Length: **12 months**
Monthly Fee: **No**
Term End Date: **No**
Enrollment Fee: **No**

Sign up for this Offer
[View All Offers >](#)

Currently...

- 20 renewable options
- 2 PA Wind options
- 1 Renewable PA option

CUSTOMER OWNED GENERATION

Home > Energy & Money Savings > Customer Owned Generation



We welcome customers who would like to interconnect a qualified, renewable energy generating system, such as a solar panel or wind turbine, to our transmission and distribution system.

Following are links to a variety of information, including requirements and procedures to make an interconnection.

- [Requirements \(see Rider No. 21 in the current tariff\)](#)
- [Frequently Asked Questions](#)
- [Standards for the Connection of Generators, End-User and Transmission Facilities PDF](#)

Customer Owned Generation | x +

← → ↻ Duquesne Light Company LLC [US] | duquesnelight.com/energy-money-savings/customer-owned-generation

APPLICATION PROCEDURE

[Customer Checklist](#)

I. Part 1 Interconnection Application Submission Requirements:

Customer is required to submit the following:

1. Part One Application – Level 1 Application/Agreement OR Level 2, 3, 4 Application/Agreement
2. Site Plan - [Click here to see Example for site plan](#)
3. One-line diagram - [Click here to see Example for one-line diagram](#)
4. Inverter/Equipment Datasheet(s)
5. Satellite Image of Interconnection Location
6. Application Fee

Please note: All submitted engineering documents must be computer generated (no hand drawn submissions will be accepted).

Application Description & Fees

1. Level 1 - Certified inverter based installations with aggregate rating 10 kW or less - \$100 [Level 1 Interconnection Application](#)
2. Level 2 - Certified inverter based installations with aggregate rating 10 kW to 2,000 kW - \$250 plus \$1.00 per kW. [Levels 2, 3, or 4 Interconnection Application](#)
3. Level 3 - Non-Certified equipment 5,000 kW or less that will export power to Duquesne Light Company - \$350 plus \$2.00 per kW. [Levels 2, 3, or 4 Interconnection Application](#)
4. Level 4 - Non-Certified equipment 5,000 kW or less that will not export power to Duquesne Light Company - \$350 plus \$2.00 per kW. [Levels 2, 3, or 4 Interconnection Application](#)

II. How to Submit Documentation:

III. Upon Receiving the Part 1 Interconnection Application:

IV. After Part One Approval:

V. Part 2 Application (Certificate of Completion) Submission Requirements:

VI. Upon Receiving Part 2 Application:

[START A NEW APPLICATION](#) | [CHECK STATUS](#)

DLC

— *DUQUESNE LIGHT CO.* —

Energize Oakland

August 14, 2019



Contents

- Phase III Requirements
- Residential Programs
- Residential Web Portal “My Electric Use”
- Residential Marketplace
- DLC Electric Vehicles Web Portal
- Contact

Act 129 Phase III Regulatory Requirements

- Energy Consumption Reduction of 440,916 MWh
- 5 Year Phase III Period: June 1, 2016 – May 31, 2021
- Includes MW or Peak Demand Requirement of 42 MW
- Low Income Target of 5.5% which is 24,250 MWh
- GNI Carve out Target is 3.5% which is 15,432 MWh

Note: On June 11, 2015, the Commission entered an Implementation Order at Docket No. M-2014-2424864 for Phase III program planning along with a Clarification Order issued on August 20, 2015 which contained the regulatory requirements and savings goals.



Residential Programs

Residential Programs

- Phase III Plan retained successful energy efficiency programs:
 - Downstream and Upstream Rebates
 - Conservation Kits
 - Giveaways
 - Whole House Retrofit
 - Appliance Recycling
 - Home Energy Report
 - Low Income Energy Efficiency
 - Low Income Multifamily Housing Retrofit
 - Low Income Home Energy Reporting
 - Low Income Whole House Retrofit

On-line Energy Audit



**Save your money
and your planet.**

Get 8 FREE LED bulbs.
DuquesneLight.com/EnergyEfficiency



Welcome to EnergyInsights which will show you where your home's energy dollars are going, and tips on how you can save.

Active Duquesne Light residential customers who click on Detailed Analysis button and complete the EnergyInsights Audit will receive a free Energy Efficiency Kit through the mail.

ONE TIME OFFER

- The Kit contains 8 LED lamps and 2 nightlights.
- The Kit will be delivered in 6-8 weeks.
- The Kit will be delivered to your Duquesne Light service address, not to an alternative mailing address you may have listed on your account.

Learn how to cut your energy bill!

A FREE, easy-to-use online tool to give you a Detailed Analysis of your home energy use in less than three minutes or an Instant Analysis of your most recent Duquesne Light bill.

Enter your account number to get started...

Then Choose...

DETAILED HOME ANALYSIS **INSTANT BILL ANALYSIS**



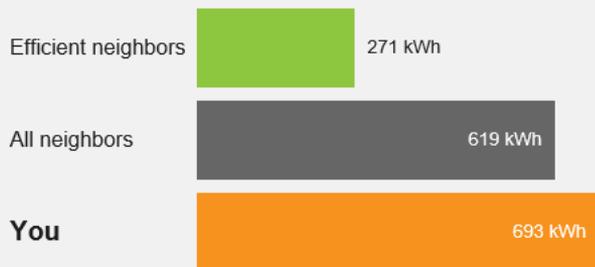
Residential Web Portals

Residential Web Portal – My Electric Use

Dashboard

How you're doing

You're using **12% more electricity** than your neighbors.



Jun 25 – Jul 24, 2019

Efficient neighbors are the 20% who use the least amount of energy.

[Who are my neighbors?](#) ▼

Great

Good

Using more than average

[See ways to save](#)

Projected bill

\$99 [?]

Jul 25 – Aug 23

! That's about \$52 more than last year.
You've spent about \$61 so far this bill period.

[See ways to save](#)

Tips for Your Home

< 1 of 6 >



Wash laundry with cold water

5,665 people do this



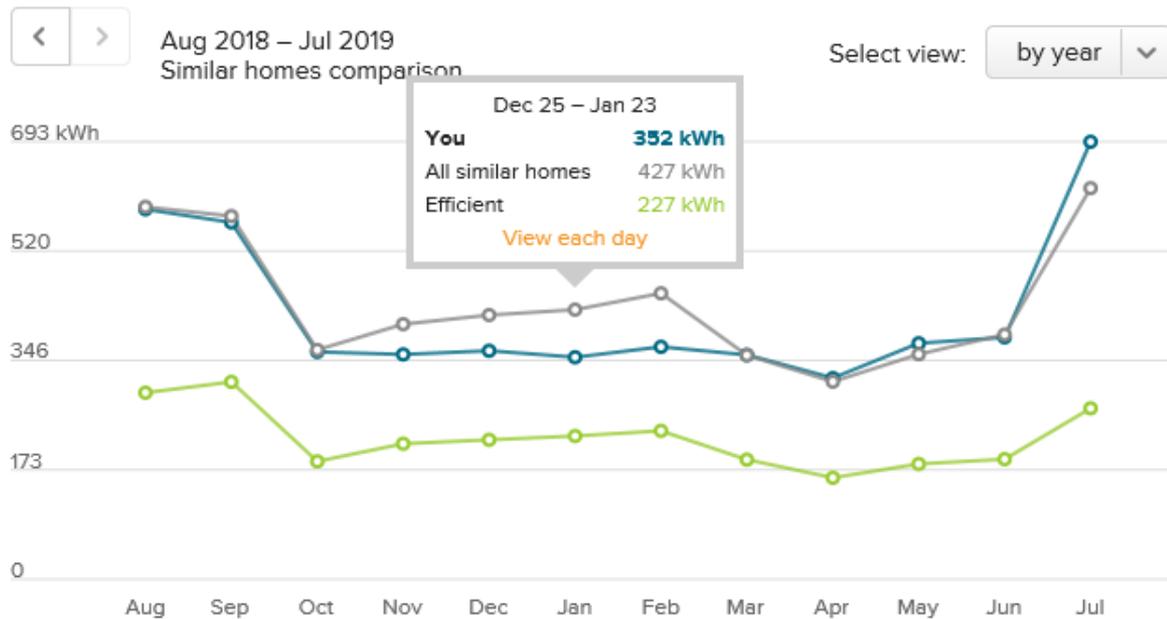
Use a moisture sensor on your dryer to avoid over-drying



Set your thermostat to 78°F in the summer

Residential Web Portal – My Electric Use

Similar Home Comparison



Find tips to reduce your use:

- Free steps to take
- Smart purchases
- Great investments

Similar homes Usage Costs Weather

- You
- All similar homes
- Efficient similar homes

What homes are compared?

Residential Web Portal – My Electric Use

Hourly Usage

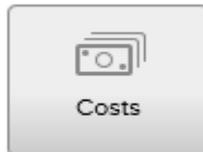
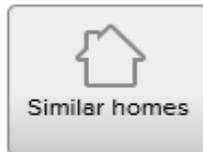
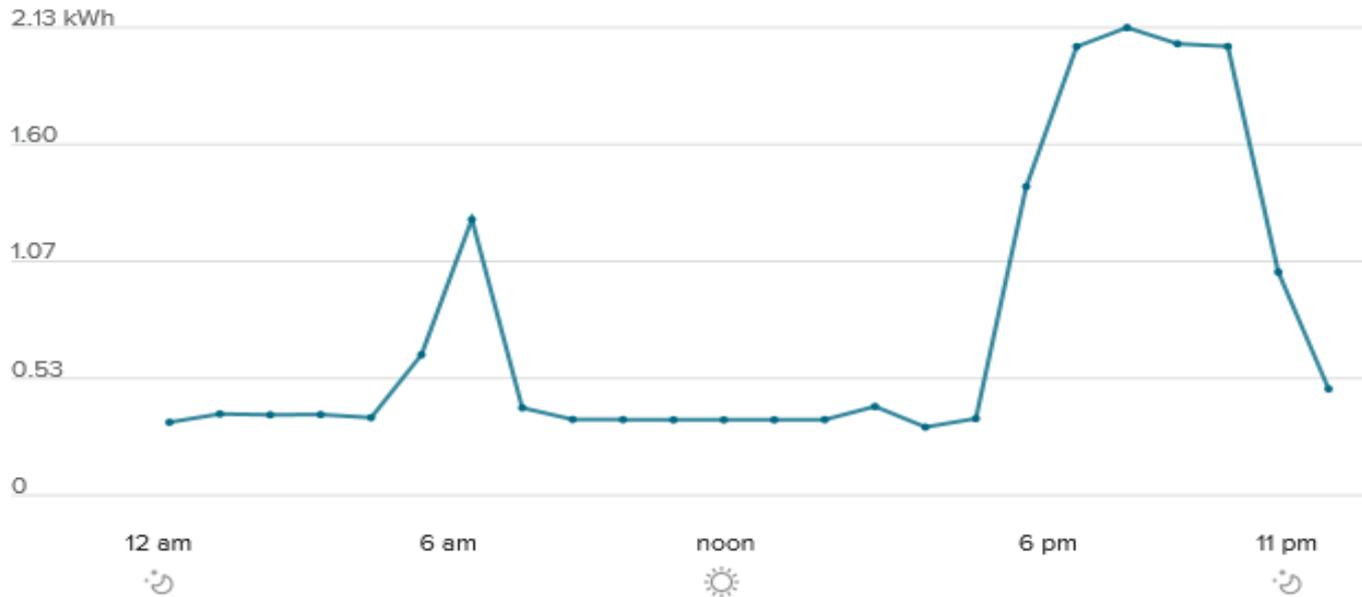
Fuel type: electricity



Fri, Aug 9, 2019
My usage

Select view:

by day



Your usage

Residential Web Portal – My Electric Use

Cost Comparison

Fuel type: electricity



Aug 2018 – Jul 2019
My costs

Select view:

by year



Steps you can take:

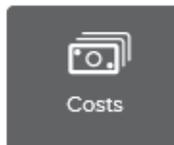
- [View tips for reducing your use](#)
- [Get alerts for expensive times](#)



Similar homes



Usage



Costs



Weather

■ Your spending

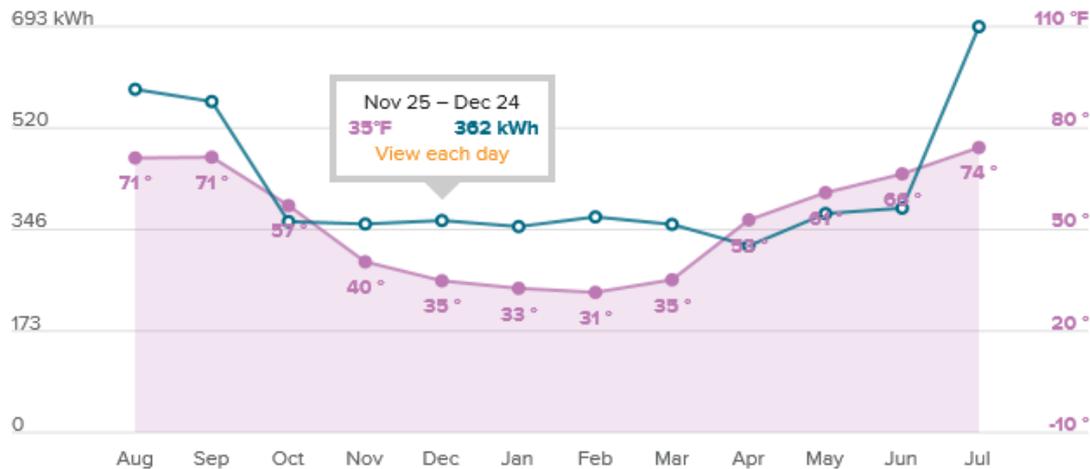
Residential Web Portal – My Electric Use

Weather Impact

Fuel type: electricity

< > Aug 2018 – Jul 2019
My usage & weather

Select view: by year ▾



Find tips to reduce your use:

- Free steps to take
- Smart purchases
- Great investments

Similar homes Usage Costs **Weather**

Your usage
Average outdoor temperature (°F)

Residential Web Portal – My Electric Use

Projected Bill and Estimated Bill to Date

Projected bill

\$99 

Jul 25 – Aug 23



That's about \$52 more than last year.
You've spent about \$61 so far this bill period.

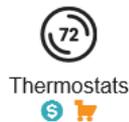
[See ways to save](#)

Residential Web Portal - Marketplace

Home Page

Watt Choices Energy-Efficient Product Marketplace

Search all major retailers at once and find energy efficient products.

Thermostats



Light Bulbs



Refrigerators



Dehumidifiers



Freezers



EV Chargers

[Explore More Categories](#)

We help you find your perfect product



The Enervee Score

Our algorithms analyze and score products daily based on their energy efficiency.



All reviews in one place

One rating that combines reviews from leading retailers and trusted experts.



Get the best deals

Track and get notified of price drops and find rebates for your favorite products.

Residential Web Portal - Marketplace

Next Level

30 EV Chargers 

\$379 - \$1,900  Sorted By relevance  Refine Search 

 <p>ClipperCreek 0709-00-001 ClipperCreek LCS-20P 16 Amp Level 2 EV ☆☆☆☆☆ (63)</p> <p> \$395</p> <p>See offer</p>	 <p>ClipperCreek 0910-00-001 ClipperCreek LCS-20P 16 Amp Level 2 EV ☆☆☆☆☆ (48)</p> <p> \$589</p> <p>See offer</p>	 <p>ClipperCreek 0910-00-000 ClipperCreek HCS-40P 32 Amp Level 2 EV ☆☆☆☆☆ (136)</p> <p> \$589</p> <p>See offer</p>
 <p>ClipperCreek 0909-00-003 ClipperCreek HCS-40 32 Amp Level 2 EV ☆☆☆☆☆ (130)</p> <p> \$565</p> <p>See offer</p>	 <p>ClipperCreek 0708-00-002 ClipperCreek LCS-20 16 Amp Level 2 EV ☆☆☆☆☆ (90)</p> <p> \$379</p> <p>See offer</p>	 <p>ClipperCreek 0708-00-003 ClipperCreek LCS-25P 20 Amp Level 2 EV ☆☆☆☆☆ (15)</p> <p> \$469</p> <p>See offer</p>
 <p>ClipperCreek 0709-00-002 ClipperCreek LCS-20P 16 Amp Level 2 EV ☆☆☆☆☆ (62)</p> <p> \$395</p> <p>See offer</p>	 <p>ClipperCreek 0912-00-000 ClipperCreek HCS-50P ☆☆☆☆☆ (10)</p> <p> \$659</p> <p>See offer</p>	 <p>eMotorWerks INPRBU40A2... JuiceBox Pro 40 Lite - 40-Amp WiFi EV ☆☆☆☆☆ (447)</p> <p> \$549</p> <p>See offer</p>

Residential Web Portal – Electric Vehicles

Home Page

YOUR GUIDE TO ELECTRIC VEHICLES

Compare costs,
savings, incentives,
and more.



Browse Electric
Vehicles



Discover
Incentives



Locate
Charging
Stations

Residential Web Portal – Electric Vehicles

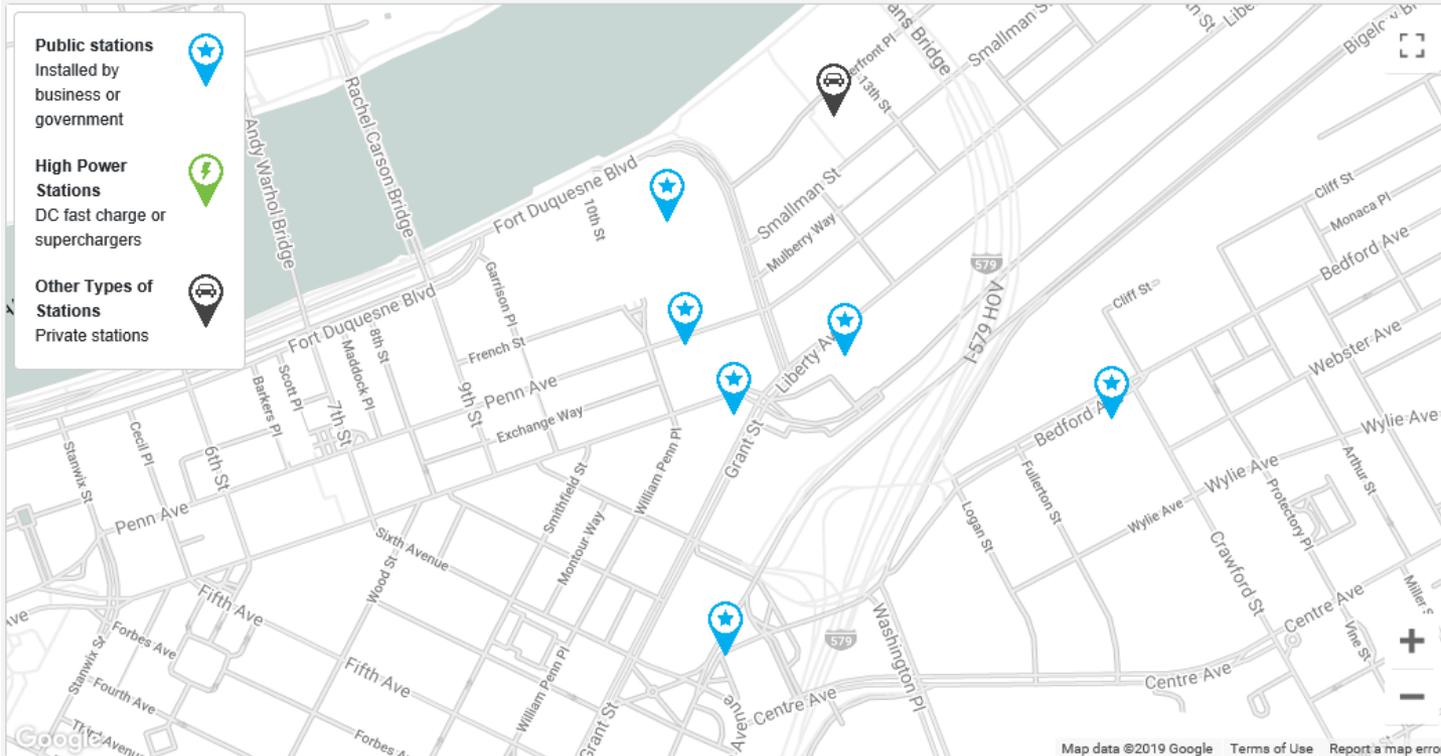
Charging Station Locations

Charging Stations

15219

Update ZIP Code

- Public stations**
Installed by business or government
- High Power Stations**
DC fast charge or superchargers
- Other Types of Stations**
Private stations



Data courtesy of the Alternative Fuel Data Center. Map may not reflect latest availability of charging stations.

Map data ©2019 Google Terms of Use Report a map error

Show full list of stations

Contacts

Dave Defide

- Sr. Manager, Customer Programs
- (412) 393-6107
- ddefide@duqlight.com