

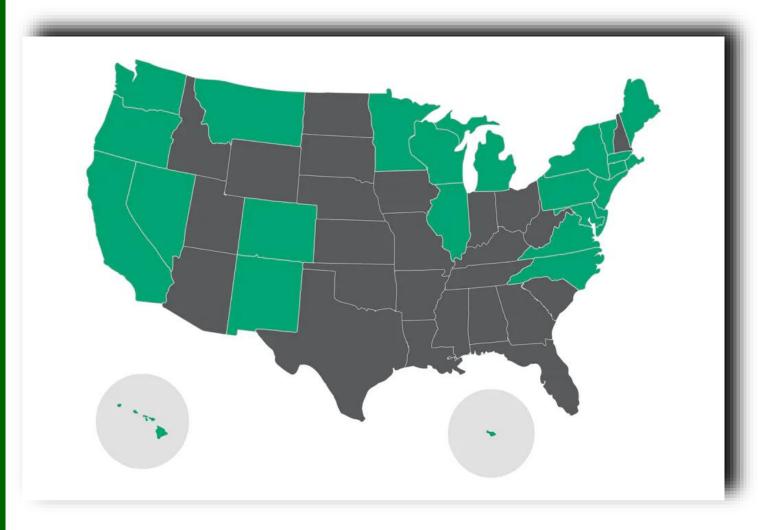
Mark Hand, Director Matt Reis, Deputy Director

### **GreenGov Council**

The GreenGov Council is chaired by the Department Secretaries of: General Services, Environmental Protection, Conservation & Natural Resources



### **US Climate Alliance**



In April 2019, Governor Wolf Joined the US Climate Alliance: <u>www.usclimatealliance.org</u>

The US Climate Alliance now has **24 Governor Signatories** 

Agreeing to Meet Climate Reduction Goals, Track and Report Progress and Accelerate Green Policies



# **Commonwealth Agency Goals – Lead-By-Example**

Reduce	• Overall energy consumption by 3% per year, and 21% by 2025 from 2017 levels;
Replace	• 25% of the state passenger fleet with Battery Electric Vehicles and Plug-In Hybrid Electric Vehicles by 2025;
Procure	<ul> <li>Renewable energy to offset at least 40% of the Commonwealth's annual electricity, and/or directly purchase renewable power generation sited within PA;</li> </ul>
Build	<ul> <li>New buildings, major renovations, build to suit leased buildings to high-performance building standards.</li> </ul>



### 2021-2022 GreenGov Agency Checklist

PA	pennsylvania		Certification Checklist 1-2022 Reporting				Rev	. 3/1/2022
	Agency Representative Sign-off:		Agency Executive Sign-off:					
1	Points Applicable	Points Earned	Score					
	182	0	0%					
	Instructions: 1. Review each measure and answer b 2. As each measure is evaluated, begin 3. The Checklist will automatically tally 4. Once completed, type in your Agent 5. Email the completed Checklist to: IV Scoring: 1. Score will be based upon the percen 2. For measures that do not apply to y 3. Green highlighted measures valued at Contact GreenGov: Phone: 717-787-4987 Email: RA-050 Since July 2021, as an Agency have	with the following preface: "Since July all points earned based upon measure yign-offs above and save the docum- -GSGreenGov@pa.gov by <i>Fridoy, Aug</i> tage of "yes" answers to measures app or Agency, select "not applicable", at 4 points are direct initiatives of the - 4 points are direct initiatives of Green reenGov@pa.gov Web: dgs.pa.gov/	2021, as an Agency have you". a spillable to your Agency. and with your Agency name in the title. ust 26, 2022 slicable to your Agency. GreenGov Program. Gov Agency Focus Groups.		e 30, 1	1022.		
1	since July 2021, as an Agency have		and Evaluation					
1	Facility Benchmarking			Yes	No	N/A	Points Value	Points Earned
1 A	Maintained an inventory of all owned EnergyCAP systems?	and leased buildings and square footag	e figures for use in DGS TRIRIGA &				2	0
18	Developed a written plan for your spar cost, energy and carbon footprint savis		r consolidation of space leading to				4	0
1 C	Participated in the Commonwealth Uti Workplan by assigning & maintaining *						3	0
1 D	Utilized EnergyCAP for the evaluation of and established reduction targets for c		ends, usage spikes, billing anomalies				3	0
1 E	Established an Executive-level energy (	portfolio report for your agency's facilit	les through the EnergyCAP System?				2	0
1.6	Participated in the High-Performance L GreenGov and Lessor by conducting ar						4	0
16	Worked with a Lessor to establish a uti square foot and greater office space th	Ity bill tracking program for at least 1 reshold for the High-Performance Leas					2	0
1 H	Utilized the DGS Consulting Services IT Building Certification within a facility o		HRAE Energy Audit and/or EnergyStar				2	0
11	Received Act 129 or other energy cons	ervation or sustainability incentive pro	gram rebates?				1	0
1.1	Achieved an overall 3% reduction of er participation in energy reduction progr						4	0
				Poi	inta Te	iate	27	0
2	Transportation Benchmarking			Yes	No	N/A	Points Value	Points Earned
2 A	Developed Executive-level fleet report figures for the purposes of VMT reduct	ion and fuel economy improvements?					2	0
2 B	Evaluated passenger vehicle assignment as part of a high-efficiency vehicle flee		livery of EV charging station projects				3	0
2 C	Utilized vehicle telematic systems to a	ccurately track performance figures of	your entire traveling fleet?				2	0
				Poi	inta Te	Inte	7	0

- 2020-2021 and 2021-2022 Reporting
- Providing Apples-to-Apples
   Comparison Over 2 Fiscal Years
- Checklists Collected Friday, 8/26/2022
- Overall Data to be Shared:
  - Posted to GreenGov Website
  - GreenGov 2023 Annual Report



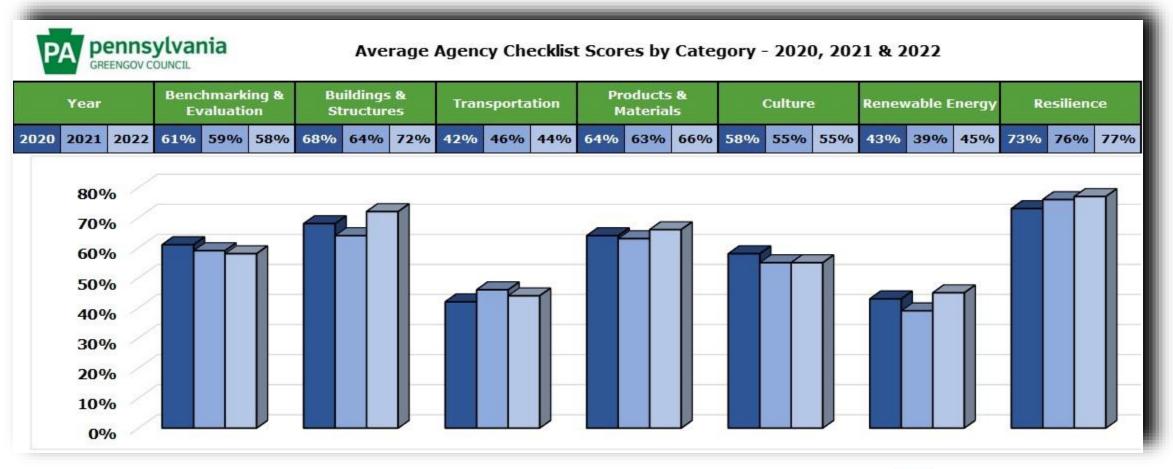
### 2022 GreenGov Agency Checklist – 100% Participation!

Health

	State Ass	Tump	We comin	anstoret Bankin	on set	or	is Employe	Mr on	tration netration storical 2	stection nd musel	un control	h. Ins Affaits Ins Affaits Ins Affaits Depair	res of	state by car	Jese i service	ices point	e taucator Labo	rand Inde	ALCOROLE TIRSUPE	Propriories	Surface Not Surface Not Surface Not	Resource and Eco	states	N. Get	eral Cov	inset con	Intestor Revenue	Control 5	acard contraction of the second secon	seneral same	Board Recommission	ASICULTURA ASICULTURA	e states	ing Board Aging	heatt
Points Applicable	151	175	103	170	76	54	182	168	175	173	128	40	182	174	61	173	82	87	182	56	182	179	58	110	123	180	74	122	173	175	36	114	161		
Points Earned	151	158	88	129	58	39	129	117	123	120	88	27	124	117	39	110	51	50	104	32	98	94	30	54	59	84	34	55	73	64	12	29	36		
Score	100%	90%	85%	76%	76%	72%	71%	70%	70%	69%	69%	68%	68%	67%	64%	64%	62%	57%	57%	57%	54%	53%	52%	<b>49</b> %	48%	47%	46%	45%	42%	37%	33%	25%	22%		



### Average Checklist Scores by Category – 2020, 2021 & 2022



Overall Averages 2020: 61% 2021: 59% 2022: 60%



### **2023 GreenGov Agency Checklist**

P/	pennsylvania         GreenGov Agency Certification Checkling           GREENCOV COLNEL         Fiscal Year 2022-2023 Reporting	st			Re	v. 9/2/202
	Agency Representative Sign-off: Agency Executive	Sign-off:				
	Points Applicable Points Earned Score					
	Instructions: 1. Review each measure and answer based upon actions of your Agency within the fiscal year of July 1, 2022. 2. As each measure is evaluated, begin with the following preface: "Since July 2022, as an Agency have you. 3. The Checklist will automatically taily all points earned based upon measures applicable to your Agency. 4. Once completed, hepe in your Agency sign-offs above and save the document with your Agency name in to 5. Email the completed Checklist to: RA-GSGreenGov@pa.gov by Fridoy, August 25, 2023 Scoring: 1. Score will be based upon the percentage of "yes" answers to measures applicable to your Agency. 2. For measures that do not apply to your Agency, select "not applicable". 3. Green highlighted measures valued at 4 points are direct initiatives of the GreenGov Program. 4. Blue highlighted measures valued at 4 points are direct initiatives of GreenGov Agency Focus Groups. Contract GreenGov Phone: 32-73-74-987 Email: RA-GSGreenGov@pa.gov Web: dgs.pa.gov/GreenGov	•	we 30, 2	023.		
1	Since July 2022, as an Agency have you Benchmarking and Evaluation					
1	Facility Benchmarking	Ye	s No	N/A	Points Value	Points Earned
A	Maintained an inventory of all owned and leased buildings and square footage figures for use in DGS TRIRIG EnergyCAP systems?	A& []			2	0
В	Developed, implemented, and maintained a written plan for your space portfolio to identify opportunities f consolidation of space leading to cost, energy and carbon footprint savings?	or 🗆				0
c	Participated in the Commonwealth Utility Benchmarking Initiative (CUBI) through the EnergyCAP Agency We by assigning & maintaining "Agency Liaison", "Core User" and other roles?	-			3	٥
D	Utilized EnergyCAP for the evaluation of utility bills regarding consumption trends, usage spikes, billing anor and established reduction targets for continued energy savings?	nalies			3	0
ε	Established an Executive-level energy portfolio report for your agency's facilities through the EnergyCAP Sys	tem?	0		2	0
F	Participated in the High-Performance Lease Program through partnership with DGS Bureau of Real Estate, GreenGov and Lessor by conducting an energy audit and establishing energy efficiency goals in a lease facili	by? □			4	0
1 G	Worked with a Lessor to establish a utility bill tracking program for at least 1 fadility that does not meet the square foot and greater office space threshold for the High-Performance Lease Program?	20k	0		2	0
I H	Utilized the DGS Consulting Services ITQ 4400007410 to procure at least 1 ASHRAE Energy Audit and/or Ene Building Certification within a facility owned or leased by your Agency?	rgyStar [			2	0
11	Participated in the GreenGov Facility Energy Management System, (EnMS) in at least one facility as part of t development of the facility's comprehensive energy evaluation and action plan?	he			2	
11	Received Act 129 or other energy conservation or sustainability incentive program rebates?	C	0		1	0
1 н	Achieved an overall 3% reduction of energy consumption within the past Fiscal Year (2021-2022) through th participation in energy reduction programs and delivery of energy-saving projects?	•				0
		3	Points T	otal	29	0
2		Ye	s No	N/A	Points Value	Points Earned
2 A	Developed, implemented, and maintained executive-level fleet reports including, classification, mileage, consumption, emission and costs for the purposes of VMT reduction and fuel economy improvements?	C			2	0
2 B	Evaluated passenger vehicle assignments to identify ideal locations for the delivery of EV charging station pr as part of a high-efficiency vehicle fleet plan?	ojects			3	0

- 2022-2023 Reporting Period
- Renewable Energy Category Rolled into the Resilience Category
- Includes Ten 4-Point Measures for Agency Efforts
- Revised Checklist Available
   October 2022



# **Open Forum Question & Answer**





### **GreenGov Communications – Sustainability Week**



- First-Ever State Government Sustainability Week, October 4-8, 2021
- Daily Messaging to All Employees on Focused Sustainability Topics
- Messaging Topics Include:
  - Food Security, Local Foods & Purchasing
  - Sustainable Transportation
  - Climate Urgency & Action
  - Recycling and Food Waste Reduction
  - High-Performance Buildings

### **GreenGov Communications – Sustainability Summit 2022**



- 2022 Sustainability Summit, October 3-7
- Sharing Information on Focused Sustainability Topics
- Will Include a Full-Day of Expert Speakers as the Week's Kickoff
- Daily Sustainability Webinars



### **GreenGov Communications – Webinar Series 4**



#### GreenGov Council & Penn State Sustainability Institute's Sustainability Webinar Series 4

#### OVERVIEW:

The <u>GreenGov Council</u> and Penn State's <u>Sustainability Institute</u> are co-hosting our fourth monthly webinar series on various sustainability topics. All who are interested in expanding their knowledge of sustainability initiatives are invited to participate!

Our goal is to make this series a successful venture to support the commonwealth's progress in uplifting and delivering on sustainability initiatives. To that end, please forward this invitation along to all those who may be interested.

#### PURPOSE:

The series is intended to give participants opportunities to hear from subject matter experts and receive updates on each topic to enrich their knowledge while engaging in group conversations.

This series will also be a useful tool for agencies to explore options and develop sustainability initiatives while receiving credit within their <u>GreenGov Agency</u> <u>Certification Checklist</u> (Checklist) program areas. Specifically, the series supports Checklist efforts under the "Culture" category on Employee and Public Engagement (sections 13 and 14).

#### FORMAT:

In respect of attendee's time, the webinars will be hosted monthly and consist of a 30 minute presentation followed by a 15 minute question & answer session. All presentations will be held via Microsoft Teams webinars and participants should plan to connect utilizing their computers to view and engage.

#### REGISTRATION:

All interested attendees are asked to complete this sign-up <u>survey</u> and indicate which presentations they plan to attend. The GreenGov Council will review the survey sign-up submissions and send out Microsoft Teams meeting calendar invitations to each interested participant for their selected webinars.

For any additional questions or comments, you may have regarding registration or webinar content, please contact the GreenGov Council.

Pennsylvania GreenGov Council 403 North Office Building | Harrisburg, PA 17120 | 717.787.4987 | dgs.pa.gov/greengov

- Partnership with the Penn State
   Sustainability Institute
- Presentations by Subject Matter Experts
- Webinars Hosted on a Monthly Basis
- 4<sup>th</sup> Series to Begin **October 14, 2022**



### **GreenGov Communications – Webinar Series 4**

- 1. Decent Work & Economic Growth Friday, October 14th, 2022
- 2. Household Carbon Reduction, Part 2 Building Sciences Connection

Thursday, November 10th, 2022

 Sustainability & Resilience in the Community, Part 2 – Food Systems

Friday, January 13th, 2023

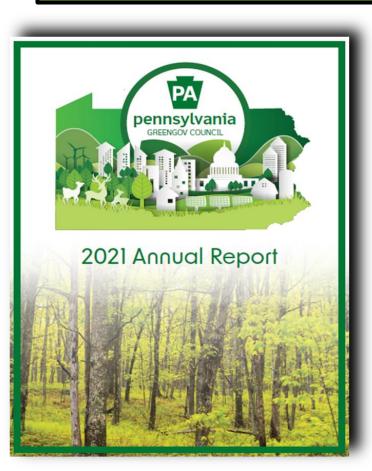
- 4. Water Resources & Resiliency Friday, February 10th, 2023
- **5. Water Justice, Community Health & Sustainable Communities** Friday, March 17th, 2023
- 6. Land Management Best Practices for Ecosystem Health and Pollinators

Friday, April 14th, 2023





### **GreenGov Communications – Agency Successes**





Pennsylvania GreenGov News



TOM WOLF, GOVERNOP

"Agency Successes & Lead-By-Example Efforts Shared in the GreenGov Annual Report & Newsletter"



### **GreenGov Communications – Climate Resilience Network**

# PA Climate Change Mitigation & Resilience Network



# *"Climate Change Education & Action to Develop a Network of Pennsylvania Climate Leaders"*

- Development of an Advisory Board of Government & Business Leaders
- Fostering Peer-to-Peer Networking for all Participants
- Increasing PA's Capacity to Tackle
   Climate Change
- Multi-Agency Participation through MOU Funding Support

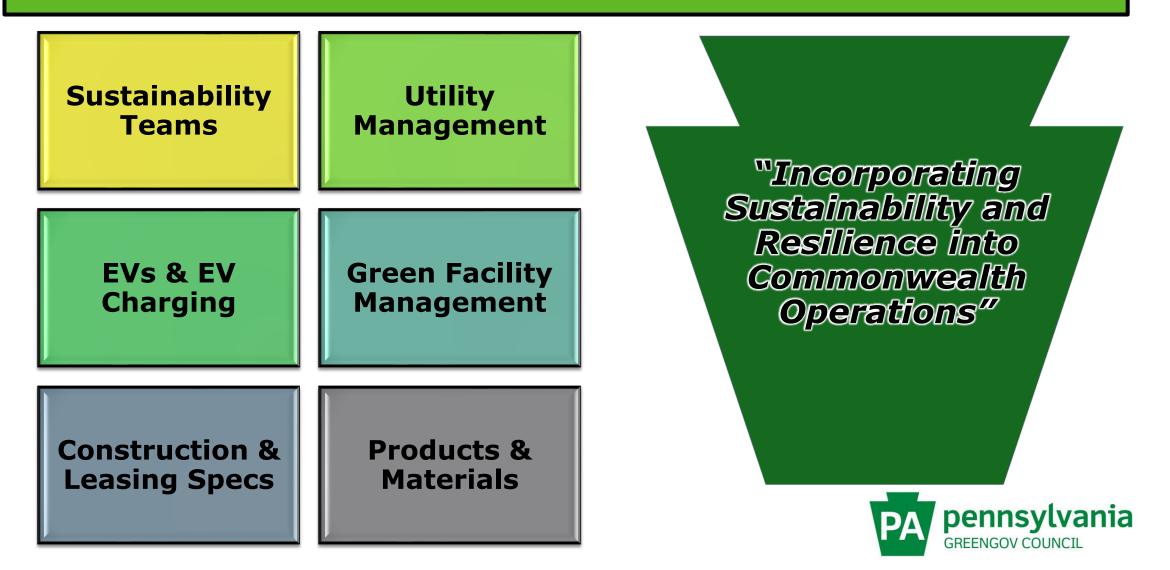


# **Open Forum Question & Answer**





### **GreenGov Program Area Focus Groups**



### **Focus Group: Sustainability Teams**

#### MANAGEMENT DIRECTIVE

Commonwealth of Pennsylvania Governor's Office

Title

Management Directive 720.05 Amended, Energy Management and Conservation in Commonwealth-Owned and Leased Facilities

Date September 21, 2021

By Direction of

Curtis M. Topper, Secretary of General Services

Contact Agency Department of General Services, GreenGov Council, Telephone 717.787.4987

This directive establishes policy and responsibilities for the management and conservation of energy in facilities owned and leased by the Commonwealth of Pennsylvania.

1. PURPOSE.

To establish policy and responsibilities to manage and conserve energy in all Commonwealth-owned and leased facilities to achieve overall annual energy consumption reduction goals as set forth in *Executive Order 2019-01 Commonwealth Leadership in Addressing Climate Change and Promoting Energy Conservation and Sustainable Governance*, providing cost savings and greenhouse gas emission reductions.

SCOPE.

This directive applies to all departments, offices, boards, commissions, and councils (hereinafter referred to as "agencies") under the Governor's jurisdiction that occupy space in Commonwealth-owned and leased facilities. The directive also applies to all legislative, judicial, and other independent agencies that occupy Commonwealth-owned and leased facilities controlled by the Department of General Services. Legislative, judicial, and other independent agencies that own or lease their own space should also consider complying with this directive for those facilities.

#### OBJECTIVES.

In order to improve energy efficiency of Commonwealth-owned and leased facilities as part of the overall 3% annual reduction of energy consumption stipulated in Executive Order 2019-01 Commonwealth Leadership in Addressing Climate Change and Promoting Energy Conservation and Sustainable Governance, agencies shall:

- Utilize program and portfolio management tools including the:
  - (1) Commonwealth Utility Benchmarking Initiative,
  - (2) GreenGov Program,

#### Management Directive 720.05 Amended

Page 1 of 5

### **Large Energy-Reduction Programs**

- GreenGov Program & Checklist
- GESA Projects
- TRIRIGA Facility Tracking

### **Agency Sustainability Teams**

- Sustainability Team Development Template
- Agency Sustainability Week & Series
- Agency Sustainability Communications & Webpages
- Recycling Kiosks

### **Sustainability Team Formation Due 9/21/2022**



### **Focus Group: Sustainability Teams**

"Best Practices to Reduce Energy Consumption, Realize Savings and Protect the Environment"

### "Commonwealth's Working Group to Support Agency Sustainability Teams"

- Identify Top Conservation Measures for Rollout within Agency Operations
- **Develop Sustainability Education** including Messaging and Awareness
- Share Conservation Strategies to Measure Implementation and Successes of All Agencies



### **Focus Group: Utility Management**

- Maintain EnergyCAP Agency Liaison Roles
- Continue Enterprise-Wide Validated Utility Meters Reporting at 90+%
- Develop Agency EnergyCAP Teams through Enhanced Training Opportunities
- Gross Floor Area (GFA) and "Space Types" added for **Energy Use Intensity (EUI)**
- Future Goals: EnergyStar Scores, Cost Avoidance & Energy Management Plans

The Commonwealth's Utility Benchmarking Initiative is supported by EnergyCAP, a Pennsylvania registered veteran-owned small business.

**ENERGYCAP** 



PA Actual Use			Report-10	- Two-Year	Comparisor
Commodity one of Electric, Natural Gas					
Topmost Cost Center Name equals DGS - Re	porting				
Account Name	Account Code	Actual Use (MMBtu)	Jul 2020 - Sep 2020	Jul 2021 - Sep 2021	% Difference
1 Tech Park - ELE	5149982011		7,966	5,318	-33.2 % 🔻
Annex Complex - ELE	7459086015		5,841	4,932	-15.6 % 💌
Rachel Carson SOB - ELE	6088070004		5,018	4,465	-11.0 % 💌
State Hospital	411005349989		3,842	2,482	-35.4 % 🔻
Veterinary Laboratory - ELE	4559086014		3,114	2,852	-8.4 % 💌
Agriculture Building - ELE01	7499086008	_	1,993	2,115	6.2 % 🔺
Annex Complex NG	411005346258		1,873	344	-81.6 % 💌
Scranton SOB - ELE01	7299129004		1,720	1,699	-1.2 % 🔻
Forster Street Office Building ELE01	6392068009	-	1,261	1,112	-11.9 % 💌
Agriculture Lab NG	411005345896		1,255	617	-50.8 % 🔻
Bobali Warehouse - ELE	7791062048	-	1,000	1,030	3.0 % 🔺
Public Works Complex - ELE01	6372068003		812	820	1.0 % 🔺
Governor's Residence - ELE	7819078000		689	601	-12.7 % 🔻
PA Justice Network ELE01	7479086002		471	321	-31.7 % 🔻
State Records Center - ELE	7235127006		392	410	4.7 % 🔺
625 Cherry St - NG	411003379095		237	107	-54.7 % 🔻
Public Works Complex NG	411000805944		201	7	-96.4 % 🔻
State Records Center - NG	411000574060		188	177	-5.8 % 🔻
Agriculture Bldg - Penna Furnace_ELE03	100095037923		109	61	-44.2 % 🔻
Forms & Publications Warehouse - ELE01	0442069007		90	84	-6.2 % 🔻
Publication Building - ELE	1326068018		89	0	-100.0 %

"Developing **Executive-Level Energy Reports** for Participating Agencies"

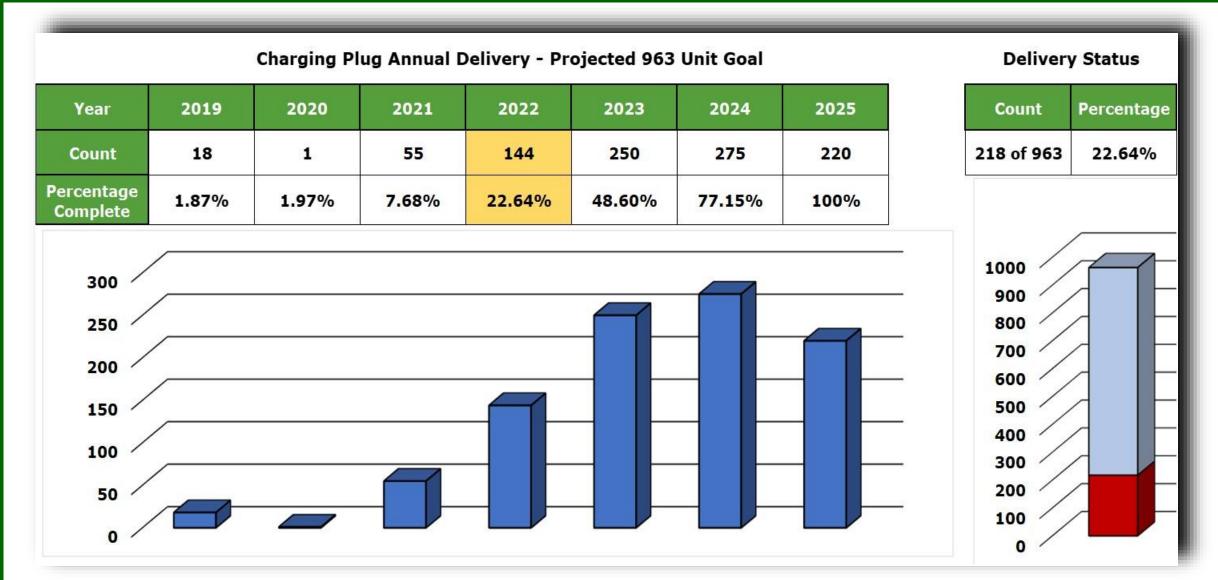


### Focus Group: EVs & EV Charging



- **Develop Charging Delivery Tools** for the Procurement of Vehicle Chargers and Electric Vehicle Supply Equipment (EVSE)
- Vehicle Charging Inclusion into Facilities Projects to Grow Our Infrastructure (In-House, JOC, Capital)
- **Develop Educational Programs** to Familiarize Staff with EVs and their Benefits





Current Status: 218 of 963 Plugs Delivered – 22.64% 100+ Additional Plugs in Planning for 2022



### **Focus Group: Green Facility Management**



- Comprehensive Energy Management Plans for All Agency Facilities Based on ISO 50001 Standards
- **GESA Project Best Practices** for the Identification, Scoping, Administration and Delivery of Energy-Saving Projects



### **Focus Group: Green Facility Management**

- Utilizing Communications Strategies Across Agencies for the Sharing of Best Practices:
  - Energy Management
  - Project Delivery
  - Sustainability Initiatives
- Information Sharing Between Focus Groups to Foster the Development of Long-Term Comprehensive Facility Portfolio Plans





### **Focus Group: Construction & Leasing Specs**

### "Development of High-Performance Building Plans"



- Develop Sustainability Checklists to Deliver High-Performance Projects
- **Educate on High-Performance Criteria:** Client Agencies, Partnering Firms & Stakeholders with support from Penn State University



### **Focus Group: Construction & Leasing Specs**

### "Development of a High-Performance Lease Initiative"



- Set Goals to Develop an Energy-Efficient Lease Portfolio
- Provide Transparency in Lease
   Performance through:
  - Benchmarking & Auditing of Facility Performance
  - **Identifying** Energy-Saving Project Opportunities
  - **Department of State Lease** now in Negotiations



### **Focus Group: Products & Materials**

- Communications & Partnership with the Pennsylvania Recycling Markets Center
- Utilizing Recycled Plastics in Roadways & Paving Projects Including Ridley Creek State Park
- Exploring Opportunities for the Installation of a Mini-MRF (Material Recovery Facility)
- Recycling Additional Materials such as the Incorporation of Food Waste Programs





### **Focus Group: Products & Materials**



"Standardized Recycling Kiosk Model for use in Commonwealth Facilities"



# **Open Forum Question & Answer**





# **Thank You!!**



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