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**Mark Hand, Director**  
**Matt Reis, Deputy Director**

# GreenGov Council

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



**Cindy Adams Dunn,  
DCNR Secretary**



**Reggie McNeil,  
DGS Secretary**



**Jessica Shirley,  
DEP Secretary**



# US Climate Alliance – PA Participation

*"The U.S. Climate Alliance is a **Bipartisan Coalition of 25 Governors** Securing America's Net-Zero Future by Advancing State-Led, High-Impact Climate Action"*



Pennsylvania has been a Member of the US Climate Alliance Since 2019  
[www.usclimatealliance.org](http://www.usclimatealliance.org)

# Commonwealth Agency Goals – Lead-By-Example

***“Encouraging the Incorporation of Environmentally Sustainable Practices into the Commonwealth’s Policy, Planning, Operations, Procurement, and Regulatory Functions”***



<b>Reduce</b>	<ul style="list-style-type: none"><li>• Overall energy consumption by 3% per year, and 21% by 2025 from 2017 levels;</li></ul>
<b>Replace</b>	<ul style="list-style-type: none"><li>• 25% of the state passenger fleet with Battery Electric Vehicles and Plug-In Hybrid Electric Vehicles by 2025;</li></ul>
<b>Procure</b>	<ul style="list-style-type: none"><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>
<b>Build</b>	<ul style="list-style-type: none"><li>• New buildings, major renovations, build to suit leased buildings to high-performance building standards.</li></ul>

# Energy Reduction 2021/2022 – 2022/2023



FACILITIES  
ENGINEERING  
INSTITUTE

## Commonwealth Energy Consumption FY2021/2022 - FY2022/2023

State Reporting Agency	Normalized Use (MMBtu)	# Known Meter Count	% of Meters Reported	FY 2022 Baseline MMBtus	FY 2023 Current MMBtus	Change in Energy Usage	Change in C02 Metric Tons
Dept of Corrections		294	93%	2,035,368	1,931,613	-5.1%	-8,155
Dept of Health and Human Services		85	100%	959,770	1,009,002	5.1%	1,749
Dept of Military and Veterans Affairs		816	94%	501,197	502,227	0.2%	1,618
Dept of Transportation		3,606	94%	445,245	435,137	-2.3%	-2,994
Dept of General Services		69	100%	380,604	362,718	-4.7%	-2,057
PA State Police		547	89%	150,254	146,887	-2.2%	-369
Dept of Conservation and Natural Resources		1,938	98%	106,437	109,099	2.5%	88
Dept of Labor and Industry		10	70%	50,152	47,767	-4.8%	-796
Dept of Agriculture		13	100%	45,043	47,397	5.2%	742
PA Fish and Boat Commission		94	99%	43,474	46,643	7.3%	77
Dept of Environmental Protection		124	97%	31,981	27,813	-13.0%	22
PA Historical and Museum Commission		130	96%	27,952	27,813	-0.5%	-509
PA Emergency Management Agency		14	100%	21,011	21,400	1.9%	-10
Dept of Revenue		5	100%	13,629	13,133	-3.6%	227
PA Game Commission		229	96%	9,848	9,735	-1.1%	-290
<b>Total</b>		<b>7,974</b>	<b>95%</b>	<b>4,821,965</b>	<b>4,738,384</b>	<b>-1.7%</b>	<b>-10,657</b>

**12%+ Reduction Since 2017**

# EV & EV Charging Infrastructure

## Overall EV Charging Plug Delivery Status

Total Plug Heads Completed:	231
Total Plug Heads In Design and/or Construction:	349
Total Plug Heads in Future Planning:	24
<b>Total Count Completed &amp; Planned (Agency Use):</b>	<b>604</b>
DCNR State Park Completed & Planned (Public Use):	142



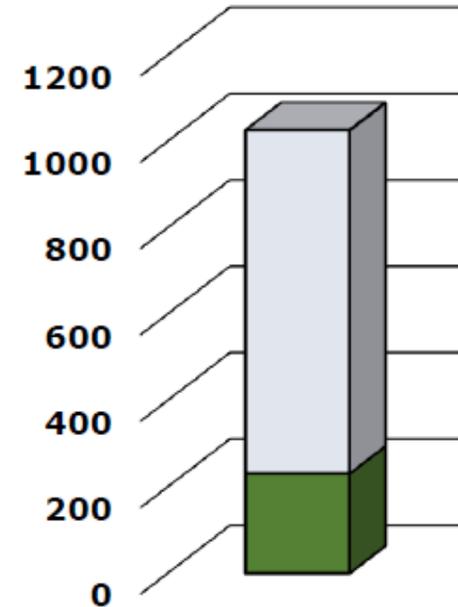
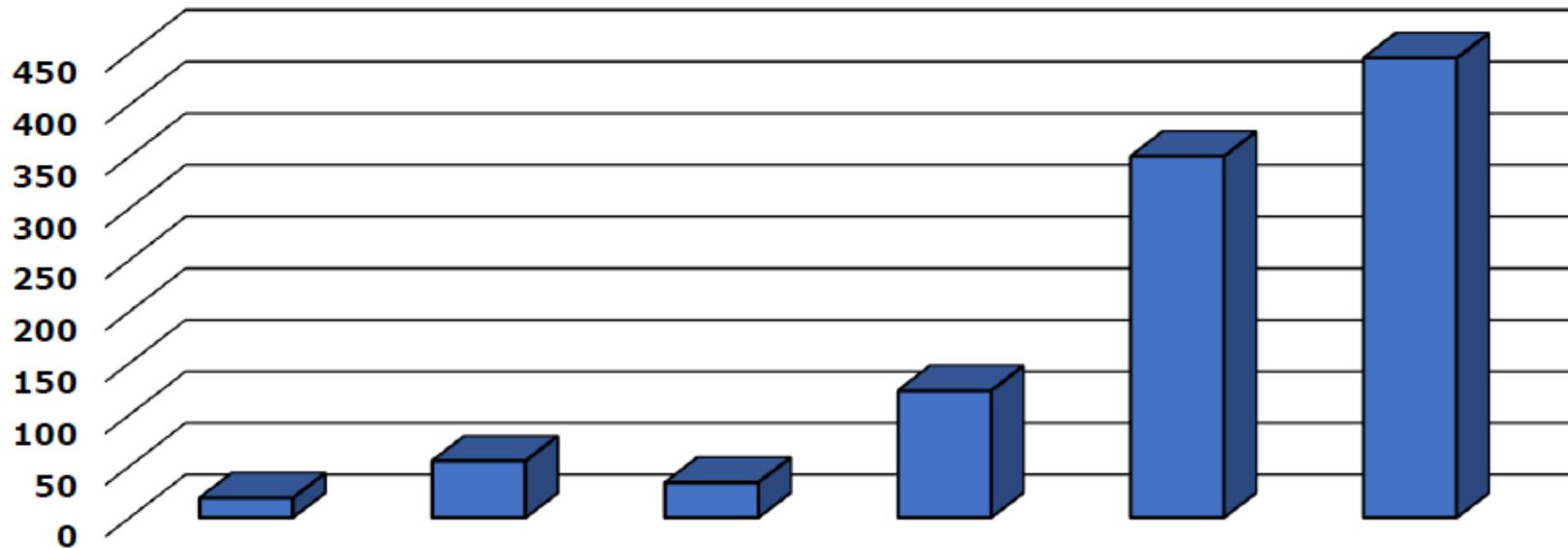
- **231 EV Charging Plugs Delivered** with 300+ Planned in 2024
- **22% of EV Goal Reached**, 225 Units of 1026 Unit Goal (1026 is 25% of the Passenger Fleet)

### Charging Plug Annual Delivery Projected 1026 Unit Goal

Year	2017-2020	2021	2022	2023	2024	2025
Plugs Delivered	19	55	34	123	350	445
Percentage Complete	2%	7%	11%	23%	57%	100%

### EV Plug Delivery Status

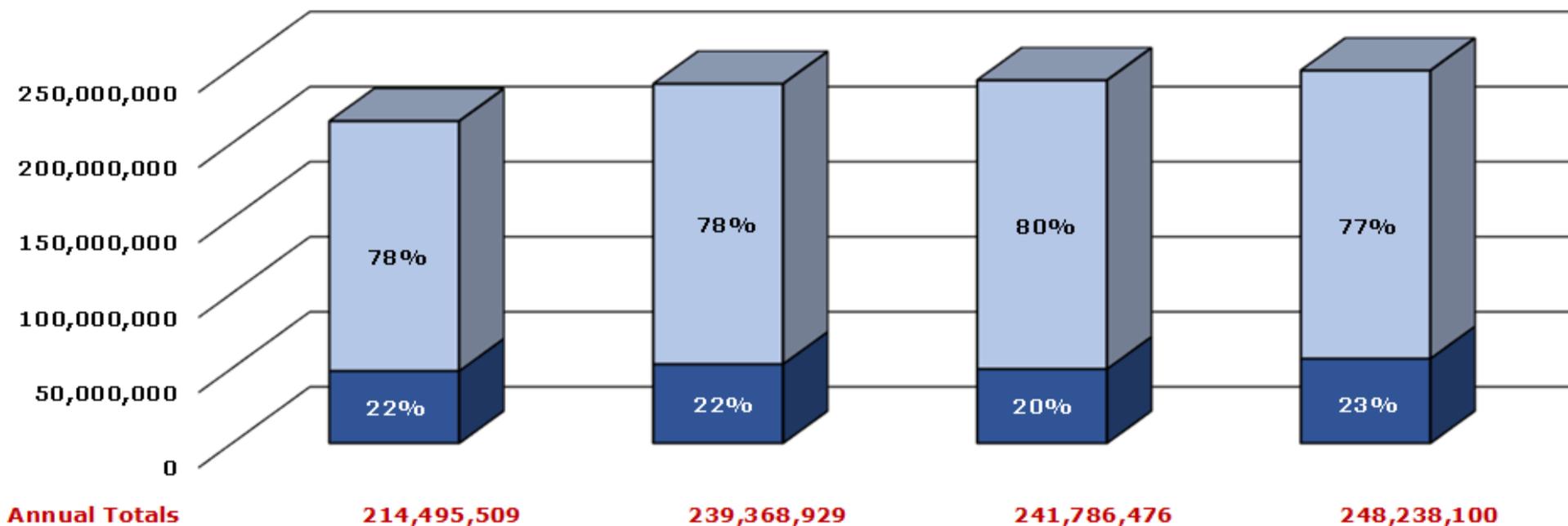
Total Plugs	Percentage
231 of 1026	23%



**300+ Plugs Planned for 2024!**

## Commonwealth Agency Vehicle Fleet Annual VMT Comparison

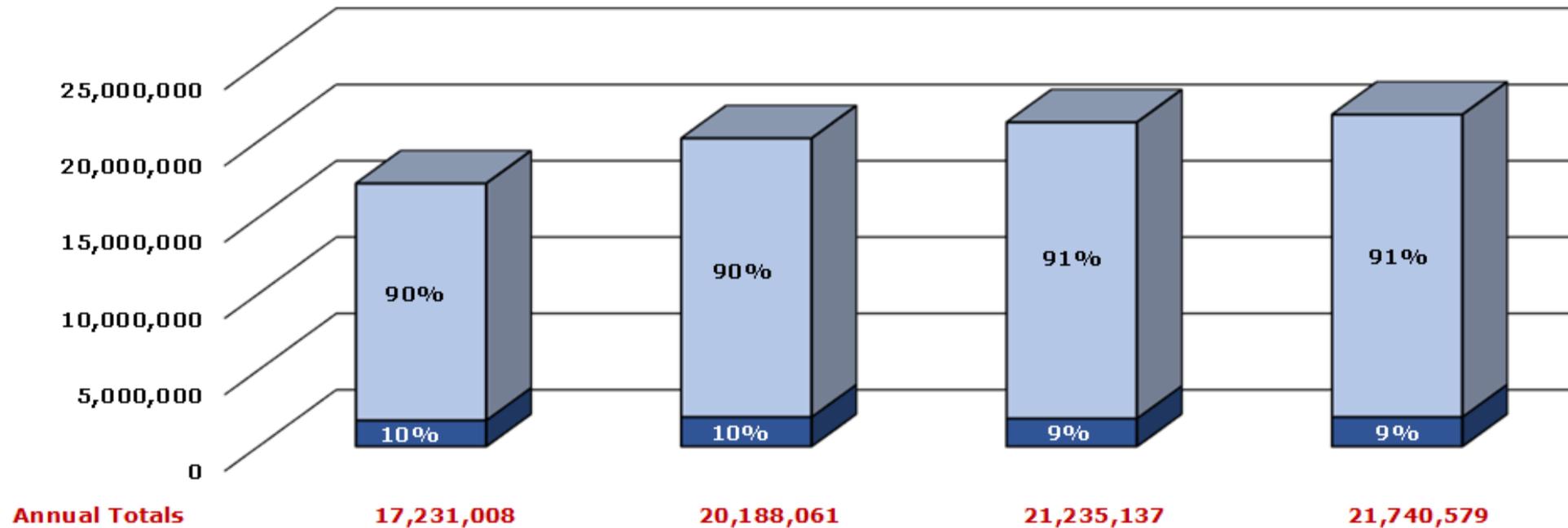
Vehicle Classification	Vehicle Miles Traveled			
	2020	2021	2022	2023
Passenger* (Class 1-2)	48,070,127	52,674,806	49,455,037	56,317,249
All Remaining Vehicles (Through Class 8)	166,425,382	186,694,123	192,331,439	191,920,851



\* Law enforcement vehicles & pickup trucks not included

### Commonwealth Agency Vehicle Fleet Annual Fuel Consumption Comparison

Vehicle Classification	Gallons, Gasoline & Diesel Combined			
	2020	2021	2022	2023
Passenger* (Class 1-2)	1,712,478	1,926,828	1,837,297	1,932,142
All Remaining Vehicles (Through Class 8)	15,518,530	18,261,233	19,397,840	19,808,437



\* Law enforcement vehicles & pickup trucks not included

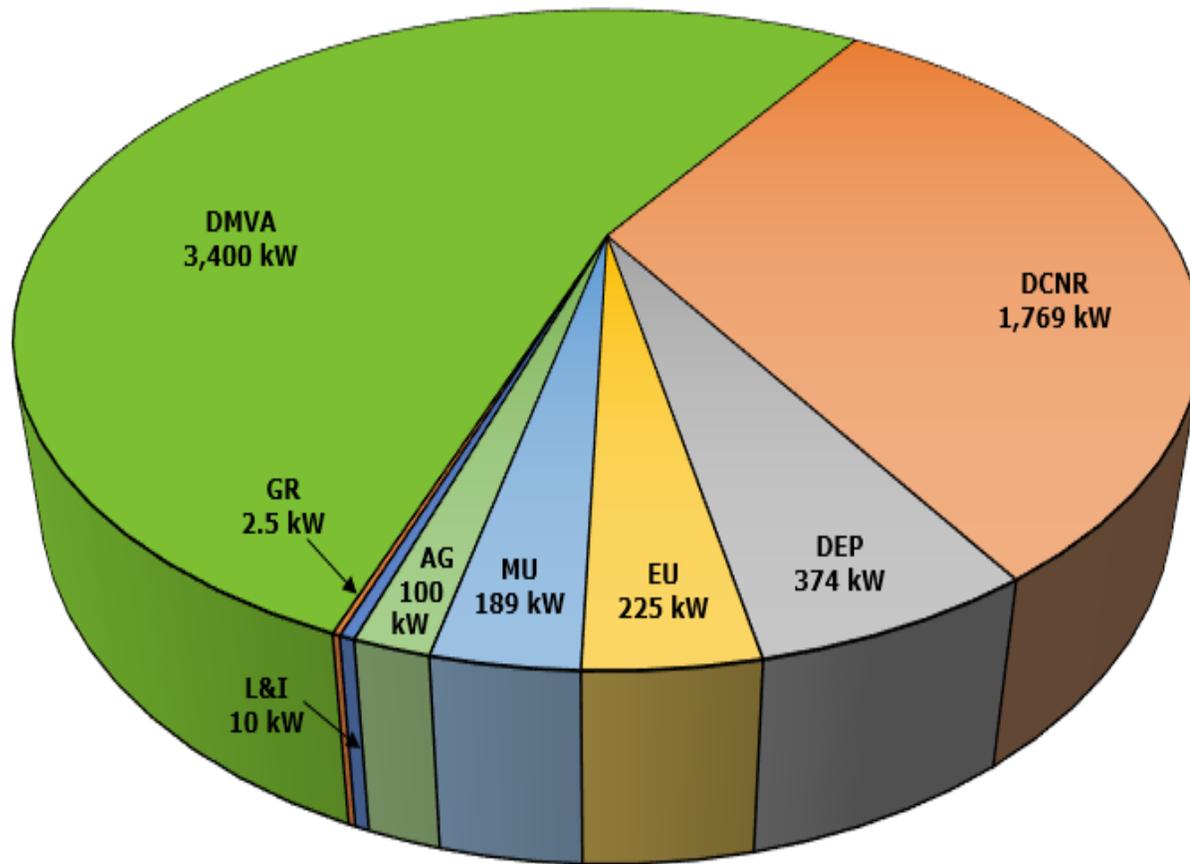
# Renewable Energy – Power Purchase Agreements

## PA PULSE – Project to Utilize Light and Solar Energy

- **Provide for Nearly 50%** of State Government's Electricity – Now In Construction!
- **191 Megawatts of Power** to 434 Accounts Across 16 Agencies
- **Reduction of 157,800 Metric Tons** of CO2 Emissions Annually



# Commonwealth Existing Solar Installations - 2023

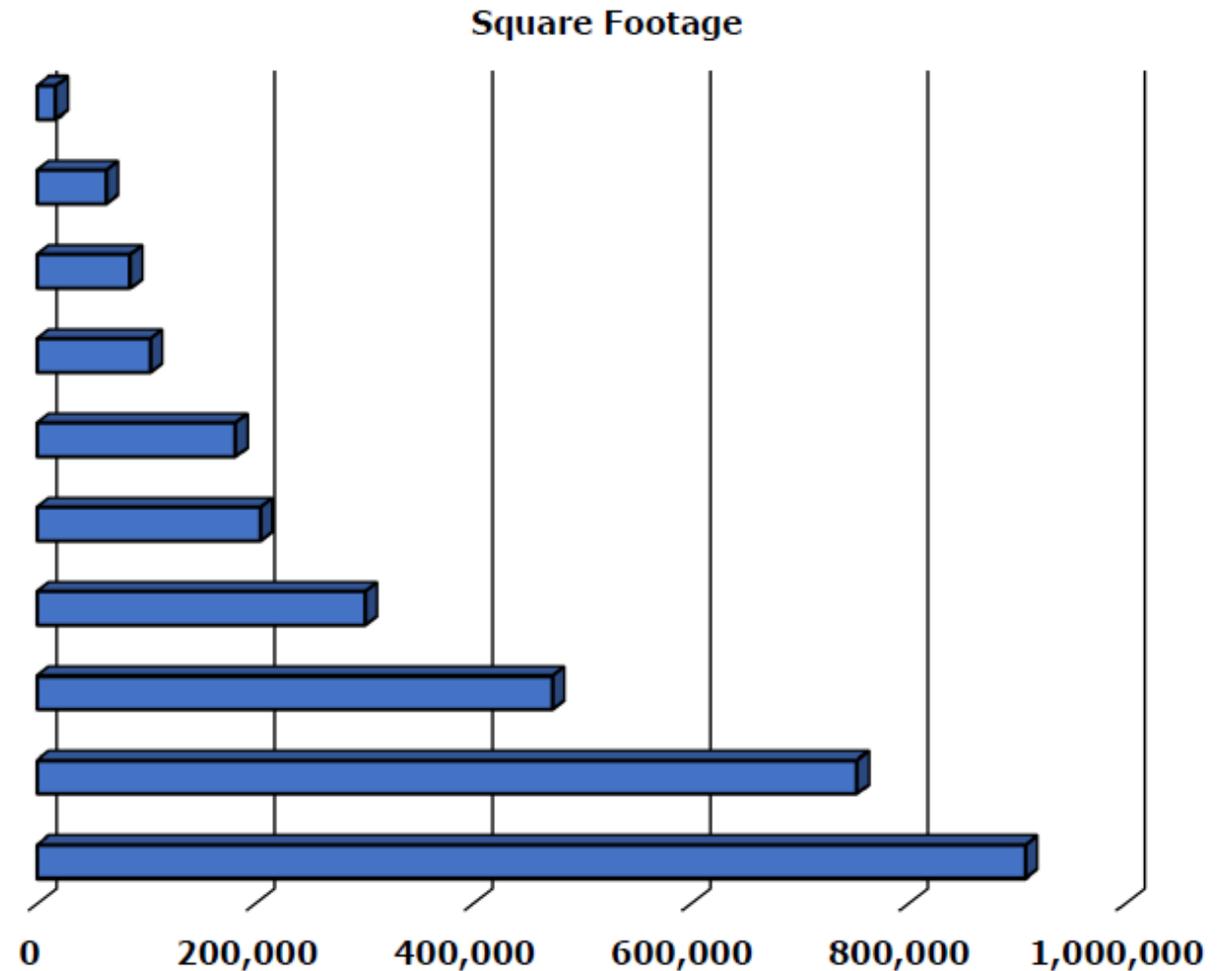


- Dept. of Military & Veteran's Affairs (DMVA)
- Dept. of Conservation & Natural Resources (DCNR)
- Dept. of Environmental Protection (DEP)
- Edinboro University (EU)
- Millersville University (MU)
- Dept. of Agriculture (AG)
- Dept. of Labor & Industry (L&I)
- Governor's Residence (GR)

**Total Solar Capacity: 6,070 kW**

## High-Performance Building Projects - By Agency

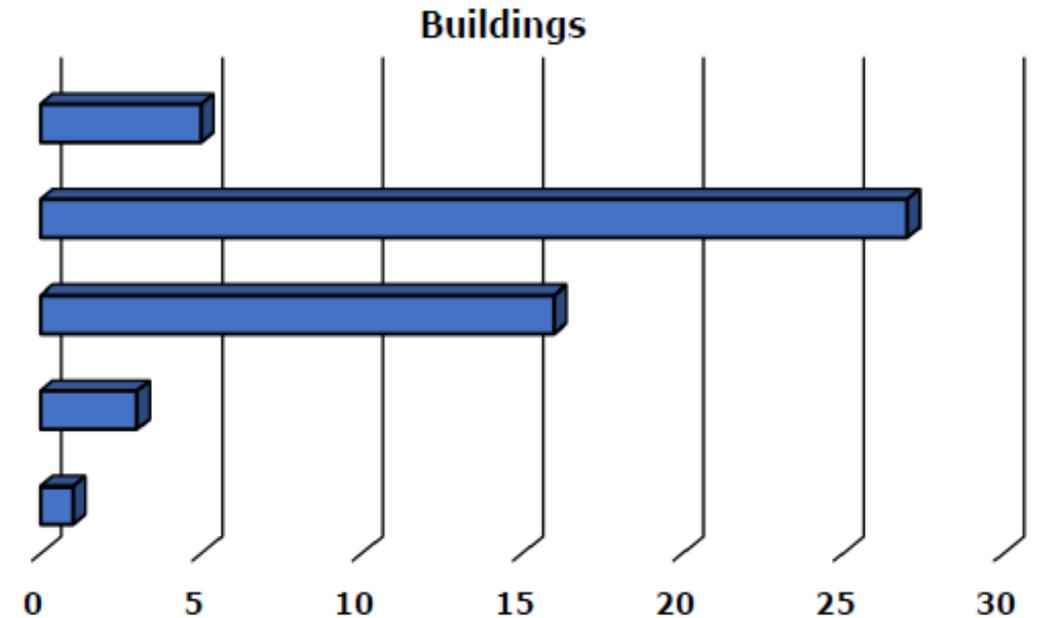
Agency	Buildings	Value (M)	Square Footage
Fish & Boat Commission	2	\$5.80	17,050
Corrections	3	\$28.20	63,300
Game Commission	4	\$39.81	85,355
DCNR (1 project cost TBD)	11	\$66.33	103,997
PennDOT (1 project cost TBD)	5	\$153.80	181,965
DMVA	9	\$172.38	205,000
Joint Laboratory (multiple agencies)	1	\$325.00	301,000
Human Services	2	\$390.45	473,000
State Police	2	\$319.00	752,635
Higher Education*	13	\$219.79	908,019
<b>Totals:</b>	<b>52</b>	<b>\$1,720.56</b>	<b>3,091,321</b>



\* Includes PASSHE (8), State-Related (3) & Independent Higher Education Schools (2)

## High-Performance Building Projects - By Delivery Phase

Delivery Phase	Value (M)	Square Footage	Buildings
Completed	\$25.33	65,367	5
In Construction	\$520.19	1,363,254	27
In Design	\$1,145.34	1,603,400	16
Design TBD	TBD	24,800	3
Temporarily Suspended	\$15.00	34,500	1
<b>Totals:</b>	<b>\$1,705.86</b>	<b>3,091,321</b>	<b>52</b>



# GreenGov Program Area Focus Groups

**Sustainability  
Teams**

**Utility  
Management**

**EVs & EV  
Charging**

**Green Facility  
Management**

**Construction &  
Leasing Specs**

**Products &  
Materials**

***"Incorporating  
Sustainability and  
Resilience into  
Commonwealth  
Operations"***

# Agency Certification Checklist

Rev. 12/12/2023

**PA pennsylvania GREENGOV COUNCIL**

**GreenGov Agency Certification Checklist  
Fiscal Year 2023-2024 Reporting**

Agency Representative Sign-off: \_\_\_\_\_ Agency Executive Sign-off: \_\_\_\_\_

Points Applicable	Points Earned	Score
186	0	0%

**Instructions:**

- Review each measure and answer based upon actions of your Agency within the fiscal year of July 1, 2023 through June 30, 2024.
- As each measure is evaluated, begin with the following preface: "Since July 2023, as an Agency have you...".
- The Checklist will automatically tally all points earned based upon measures applicable to your Agency.
- Once completed, type in your Agency sign-offs above and save the document with your Agency name in the title.
- Email the completed Checklist to: RA-GSGreenGov@pa.gov by **Friday, August 30, 2024.**

**Scoring:**

- Score will be based upon the percentage of "yes" answers to measures applicable to your Agency.
- For measures that do not apply to your Agency, select "not applicable".
- Green highlighted measures valued at 4 points are direct initiatives of the GreenGov Program.
- Blue highlighted measures valued at 4 points are direct initiatives of GreenGov Agency Focus Groups.

Contact GreenGov:  
Phone: 717-787-4987 Email: RA-GSGreenGov@pa.gov Web: dgs.pa.gov/GreenGov

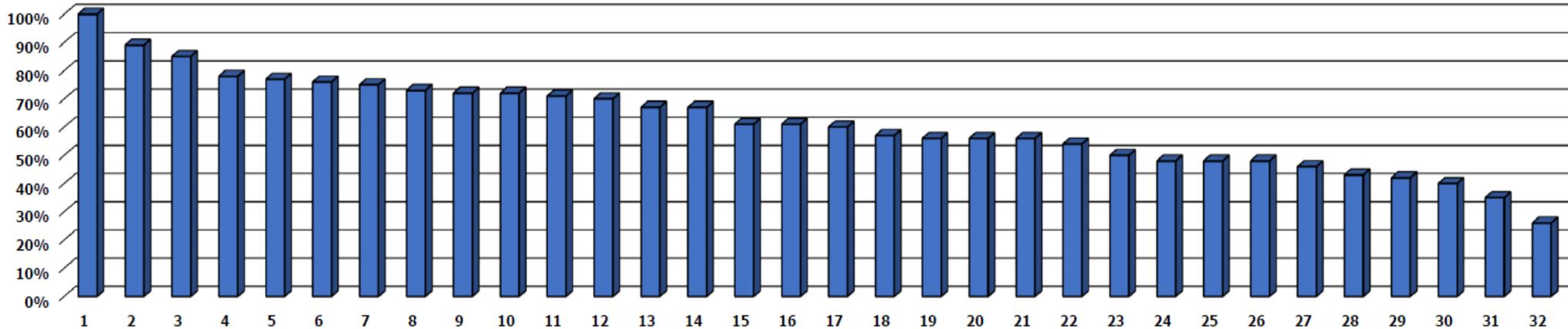
*Since July 2023, as an Agency have you...*

I Benchmarking and Evaluation							
I	Facility Benchmarking	Yes	No	N/A	Points Value	Points Earned	
1 A	Maintained an inventory of all owned and leased buildings and square footage figures for use in DGS TRIRIGA & EnergyCAP systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	0	
1 B	Developed, implemented, and maintained a written plan for your space portfolio to identify opportunities for consolidation of space leading to cost, energy and carbon footprint savings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	0	
1 C	Participated in the Commonwealth Utility Benchmarking Initiative (CUBI) through the EnergyCAP Agency Workplan by assigning & maintaining "Agency Liaison", "Core User" and other roles?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
1 D	Utilized EnergyCAP for the evaluation of utility bills regarding consumption trends, usage spikes, billing anomalies and established reduction targets for continued energy savings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
1 E	Established an Executive-level energy portfolio report for your agency's facilities through the EnergyCAP System?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	0	
1 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 facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	0	
1 G	Worked with a Lessor to establish a utility bill tracking program for at least 1 facility that does not meet the 20k square foot and greater office space threshold for the High-Performance Lease Program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	0	
1 H	Utilized the DGS Consulting Services ITQ 4400007410 to procure at least 1 ASHRAE Energy Audit and/or EnergyStar Building Certification within a facility owned or leased by your Agency?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	0	
1 I	Participated in the GreenGov Facility Energy Management System, (EnMS) in at least one facility as part of the development of the facility's comprehensive energy evaluation and action plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	0	
1 J	Received Act 129 or other energy conservation or sustainability incentive program rebates?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	0	
1 K	Achieved an overall 3% reduction of energy consumption within the past Fiscal Year (2022-2023) through the participation in energy reduction programs and delivery of energy-saving projects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	0	
					<b>Points Total</b>	<b>29</b>	<b>0</b>
2	Transportation Benchmarking	Yes	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	0	
2 B	Evaluated passenger vehicle assignments to identify ideal locations for the delivery of EV charging station projects as part of a high-efficiency vehicle fleet plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	

- **Assessment Tool** to Gauge Achievement Efforts on Performance Goals
- **Menu of Measures and Strategies** for Conservation and Sustainability
- **Benchmarking and Evaluation** to Track Implementation Progress
- **Results Sharing** with Other Agencies and the Public

# GreenGov Agency Checklist – 100% Participation!

State Agency	Tumpline Commission	Department of Transportation	Department of Banking and Securities	Department of State	Public School Employees	Office of Human Services	Office of Administration	Department of General Services	Department of Environmental Protection	Dept. of Military and Veterans Affairs	Office of the Budget	Historical and Museum Commission	PA Emergency Management & Nat. Resources	Dept. of Drug and Alcohol Programs	Pennsylvania State Police	Department of Education	Pennsylvania Insurance Department	Liquor Control Board	Office of General Counsel	Environmental Hearing Board	Pennsylvania Game Commission	Department of Labor and Industry	Public Utility Commission	Department of Revenue	Office of Agriculture	Department of State Inspector General	Department of Health	Dept. of Community and Economic Dev.				
Points Applicable	160	173	108	124	179	79	61	185	183	161	178	46	166	180	178	85	173	69	88	89	170	87	40	181	186	108	119	185	77	165	97	87
Points Earned	160	154	92	97	137	60	46	135	132	116	126	32	112	120	109	52	104	39	49	50	96	47	20	87	90	52	55	80	32	66	34	23
Score	100%	89%	85%	78%	77%	76%	75%	73%	72%	72%	71%	70%	67%	67%	61%	61%	60%	57%	56%	56%	56%	54%	50%	48%	48%	48%	46%	43%	42%	40%	35%	26%



**Highest Score: 100%**

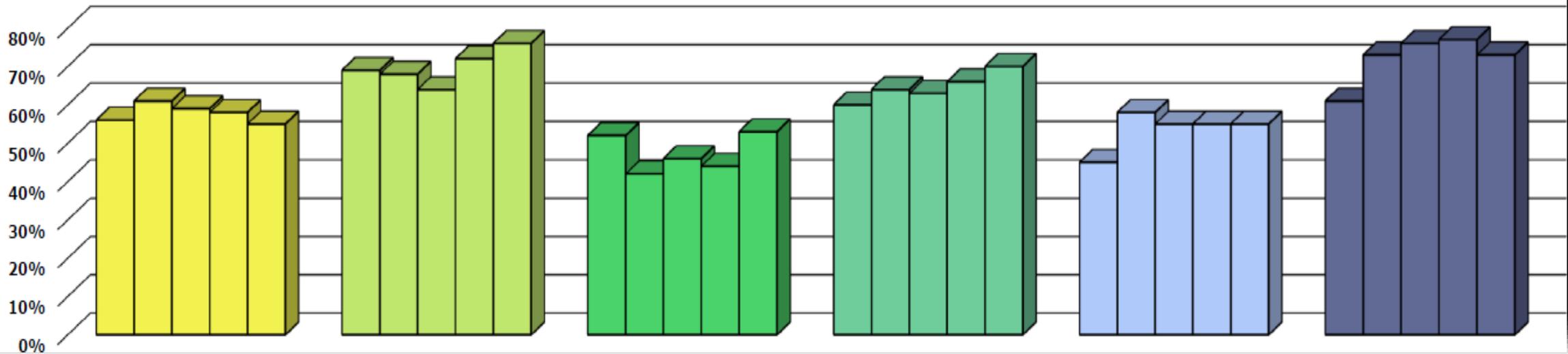
**Lowest Score: 26%**

**2023 Average Score: 64%**



# GreenGov Agency Checklist – Scores 2019-2023

Category	Benchmarking & Evaluation					Buildings & Structures					Transportation					Products & Materials					Culture					Resilience				
Year	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023
Percentage	56%	61%	59%	58%	55%	69%	68%	64%	72%	76%	52%	42%	46%	44%	53%	60%	64%	63%	66%	70%	45%	58%	55%	55%	55%	61%	73%	76%	77%	73%



## Overall Averages

**2019: 53%** **2020: 61%** **2021: 59%** **2022: 60%** **2023: 64%**

# Commonwealth Sustainability Week



- **Sustainability Week**, Hosted Annually, First Week of October
- **Daily Messaging to All Employees** on Focused Sustainability Topics
- **Messaging Topics Include:**
  - Climate Urgency & Action
  - Recycling and Food Waste Reduction
  - High-Performance Buildings
  - Food Security, Local Foods & Purchasing
  - Sustainable Transportation

## PA Climate 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

**Thank You!!**



**717-787-4987**

**RA-GSGreenGov@pa.gov**

**dgs.pa.gov/greengov**