



pennsylvania

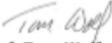
GREENGOV COUNCIL

Mark Hand, Director
Matt Reis, Assistant Director

Executive Order 2019-01

**"Commonwealth
Leadership in
Addressing Climate
Change and Promoting
Energy Conservation
and Sustainable
Governance"**

Executive Order
Commonwealth of Pennsylvania
Governor's Office

Subject: Commonwealth Leadership in Addressing Climate Change and Promoting Energy Conservation and Sustainable Governance	Number: 2019-01
 By Direction of: Tom Wolf, Governor	Date: January 8, 2019

WHEREAS, the Constitution of Pennsylvania protects the Commonwealth's citizens' rights to life, liberty, possessing and protecting property, and happiness. Further, the Constitution of Pennsylvania and various other laws also preserve the Commonwealth's citizens' right to clean air, pure water, and the preservation of the natural, scenic, historic and aesthetic values of the environment; and

WHEREAS, the Commonwealth government has long protected, valued, and recognized these rights, specifically under Executive Orders: 1973-9 Environmental Protection by State Agencies; 1980-3 Life Cycle Costing; 1998-1 Governor's Green Government Council; 2002-8 Governor's Interagency Task Force on Energy; and 2004-12 Energy Management and Conservation in Commonwealth Facilities; and

WHEREAS, climate change impacts in Pennsylvania are real and continue to put Pennsylvanians at risk: in recent years, extreme weather and natural disasters have become more frequent and more intense. Like many areas of the United States, Pennsylvania is expected to experience higher temperatures, changes in precipitation, and more frequent extreme weather events and flooding because of climate change in the coming decades; and

WHEREAS, the Commonwealth is committed to further reducing its net greenhouse gas emissions which, left unchecked, would create a high risk of irreversible, widespread, severe climate impacts in the Commonwealth and beyond; and

WHEREAS, as a major energy provider, Pennsylvania can take steps to continue to reduce emissions in the power sector, increase reliance on clean energy and improved energy efficiency, and continue reductions of potent greenhouse gasses such as methane; and

WHEREAS, as a major transportation hub, Pennsylvania can take steps to increase reliance on low-carbon transportation solutions, and reduce emissions from the transportation fleet; and

GreenGov Council

The GreenGov Council is chaired by the Secretaries of the Department of General Services (DGS), Department of Environmental Protection (DEP) and the Department of Conservation & Natural Resources (DCNR):

**Secretary Curt Topper,
DGS**



**Secretary Patrick McDonnell,
DEP**



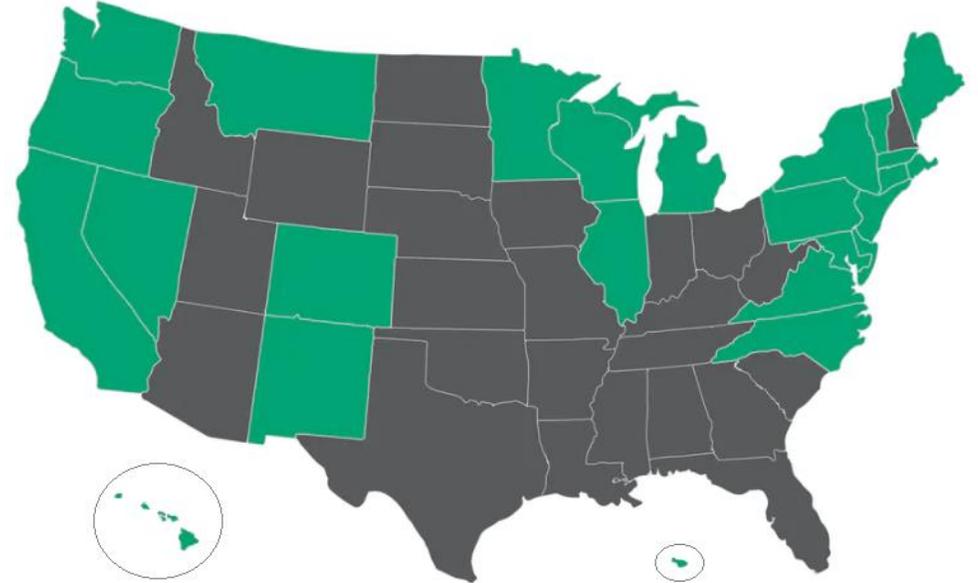
**Secretary Cindy Adams Dunn,
DCNR**



Climate Goal for the Commonwealth of PA

Executive Order 2019-01 establishes the goal to strive to achieve a **26% reduction of net greenhouse gas emissions statewide by 2025**, and an 80% reduction of net greenhouse gas emissions by 2050 (from 2005 levels)

- In April 2019, Governor Wolf joined 24 Governors in the U.S. Climate Alliance: <https://www.usclimatealliance.org>
- The U.S. Climate Alliance has 25 signatories agreeing to meet climate reduction goals, track and report progress, and accelerate green policies



GreenGov Council Mission

“Encouraging incorporation of environmentally sustainable practices into the Commonwealth’s policy, planning, operations, procurement, and regulatory functions”



- Collaboration for the development of **Best Practice** models within energy-consuming business areas
- **Continuous Improvement** in efficiency and performance within state agencies and governmental operations
- Continuously identify **Energy-Saving** opportunities through benchmarking within all program areas

Commonwealth Agency Goals

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;

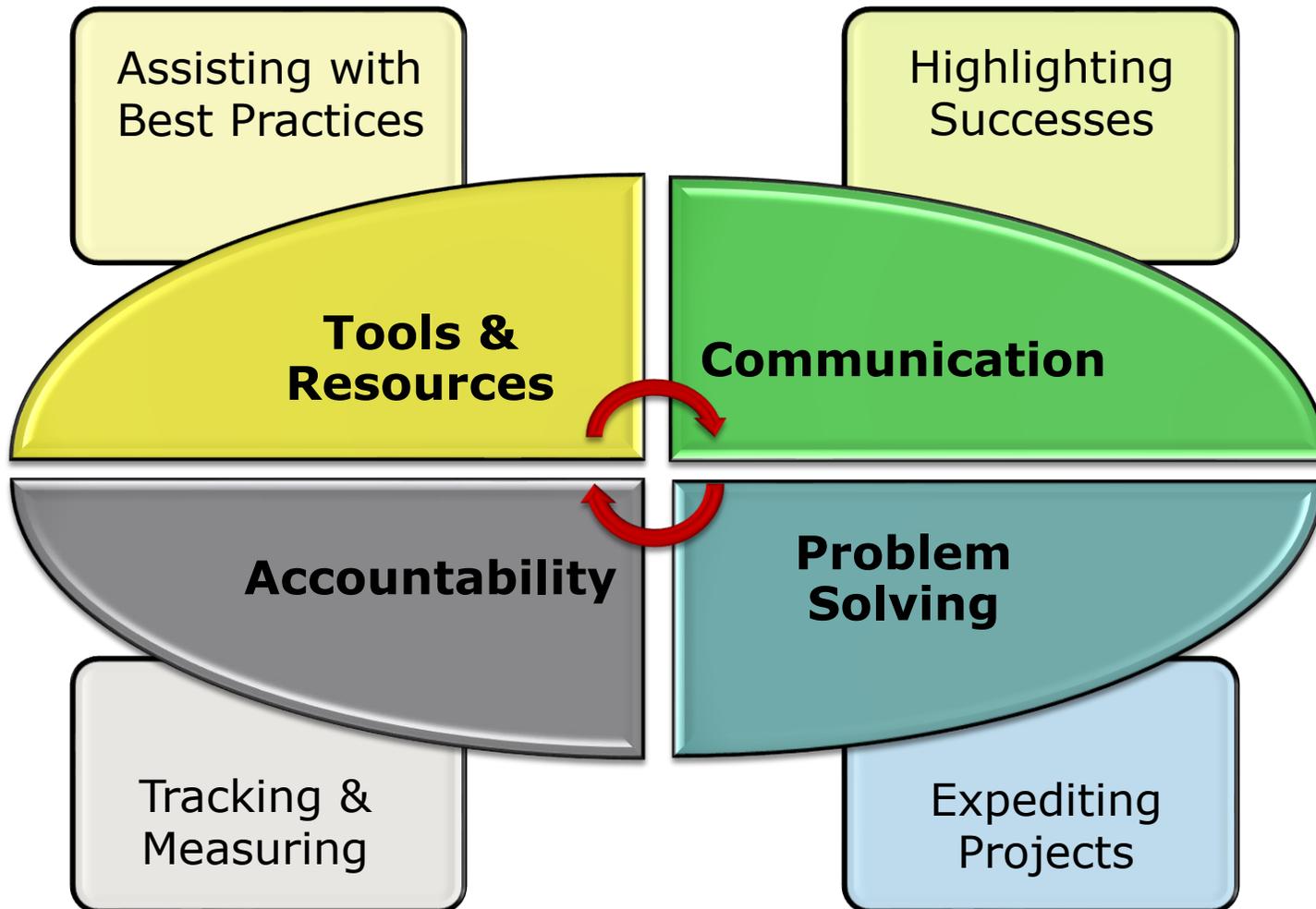
Procure

- Renewable energy to offset at least 40% of the Commonwealth's annual electricity, and/or directly purchase renewable power generation sited within PA;

Build

- New buildings, major renovations, build to suit leased buildings to high performance building standards.

GreenGov Working with Agencies



***"Collaboration
for
Sustainability"***

Agency Certification Checklist

- **Assessment Tool** to gauge implementation and achievement efforts of performance goals
- **Menu of Measures** and strategies for conservation and sustainability
- **Annual Program** evaluation to align with the Commonwealth fiscal year
- **Tracking Progress** of implementation
- **Sharing Results** with other Agencies and the public

10/10/2019

 **GreenGov Agency Certification Checklist**

Agency Representative Sign-off: _____ Agency Executive Sign-off: _____

Points Applicable	Points Earned	Score
142	0	0%

Instructions:

1. Review each measure and answer based upon the actions of your Agency within the timeframe of July 1, 2018 through the present.
2. As each measure is evaluated, begin with the following preface: "Since July 2018, as an Agency have you...".
3. The Checklist will automatically tally the points earned based upon measures applicable to your Agency.
4. Once completed, save the document with your Agency name and date.
5. Email the completed Checklist to: RA-GSGreenGov@pa.gov by **Monday, December 16, 2019**.

Scoring:
Score will be based upon the percentage of "yes" answers to measures that apply to your Agency. For measures that do not apply to your Agency, select "not applicable".
Measures that are valued at 4* points are direct initiatives of Executive Order 2019-01.

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

Since July 2018, as an Agency have you...

I Benchmarking and Evaluation							
		Yes	No	N/A	Points Value	Points Earned	
1 Facility Benchmarking							
1 A	Maintained an inventory of all buildings both owned and leased? (This information is also a key component for the move to the DGS TRIRIGA inventory system.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
1 B	Implemented EnergyCAP (the Commonwealth's utility tracking program) for the capturing of energy bills within your facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
1 C	Utilized EnergyCAP for the evaluation of utility bills regarding consumption trends, usage spikes, billing anomalies and establishing reduction targets for compliance with Executive Order 2019-01?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
1 D	Established a plan to incorporate utility bill tracking within Lessee-paid utility leased facilities for energy benchmarking through the use of EnergyCAP?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
1 E	Received Act 129 or other energy conservation or sustainability incentive program rebates?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	0	
1 F	Demonstrated compliance with Executive Order 2019-01 through an overall 3% annual reduction of energy consumption for Fiscal Year 2018-2019?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4*	0	
Points Total						17	0
2 Transportation Benchmarking							
2 A	Utilized vehicle telematic systems to accurately track all consumption and cost figures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	0	
2 B	Maintained inventory of vehicle units by type, classification, monthly mileage and fuel consumption for the total fleet?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
2 C	Identified parking spaces within your facilities for the installation of electric vehicle charging equipment (through partnership with DGS)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
2 D	Calculated transportation carbon footprint through the evaluation of total miles traveled through all forms of transportation including multimodal (bus, train, air, etc.)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	0	
Points Total						11	0

GreenGov Program Area Focus Groups

**Utility
Management**

**Sustainability
Teams**

**Electric
Vehicles &
Charging**

**Green Facility
Management**

**Construction &
Leasing Specs**

**Products &
Materials**

***"Standing-up
GreenGov Program
Principles
throughout
Commonwealth
Operations"***

Focus Group: Utility Management

Executive Order 2019-01: Collectively reduce overall energy consumption by **3 percent per year, and 21 percent by 2025** from 2017 levels

- **Develop procedures** to reduce energy and other utility usage and costs in all Commonwealth-owned and leased facilities
- **EnergyCAP System** for utility usage benchmarking and reduction opportunities
- **Tracking performance** of reduction measures, initiatives & projects (GESAs)

Energy**CAP**.



Focus Group: Sustainability Teams

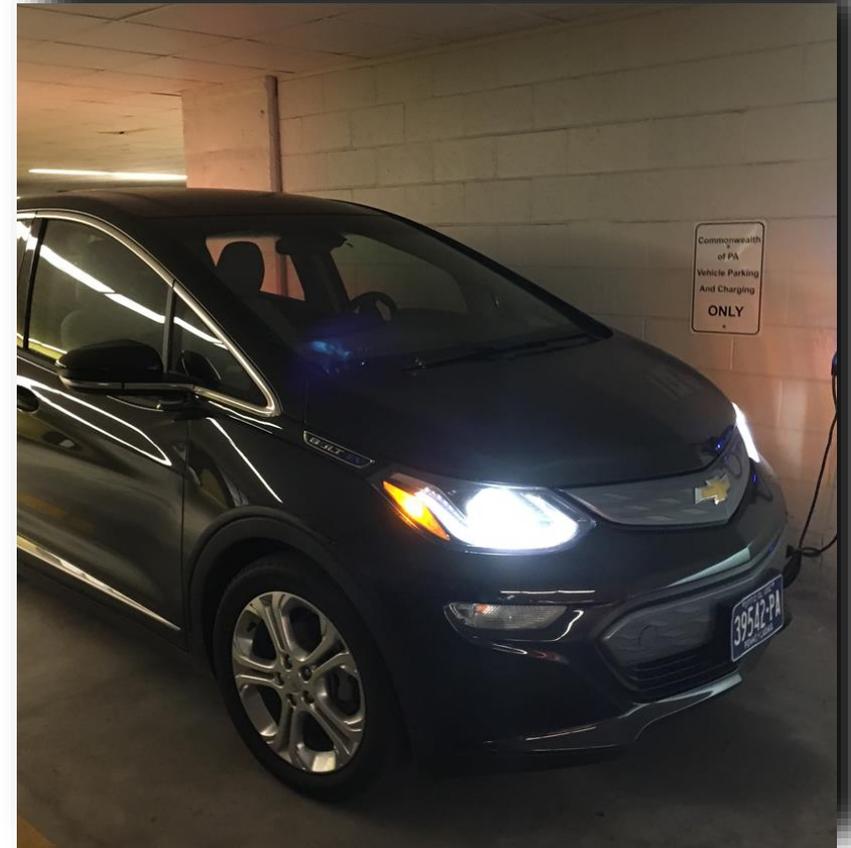
"Best Practices to Reduce Energy and Resource Consumption, Realize Savings and Protect the Environment"

- Demonstrate **careful stewardship** of resources and development of technologies
- Incorporate **resilience measures** to increase reliance on clean energy and low-carbon transportation
- **Develop policies** to incorporate strategies for the achievement of performance goals

Focus Group: Electric Vehicles & Charging

Executive Order 2019-01: Replace **25% of the state passenger fleet** with Battery Electric Vehicles and Plug-In Hybrid Electric Vehicles by 2025

- **Pilot vehicles**, currently **50** Electric Vehicles in the Commonwealth fleet
- **Exploring options** for the development of a State-wide vehicle charging network – Delivery through the P3 process?
- **Collaborative effort** to achieve 500+ passenger Electric Vehicles in service by 2025



Focus Group: Green Facility Management

GUARANTEED ENERGY SAVINGS PROJECTS

10 GESA Projects

Total Project Investment



\$89.9M

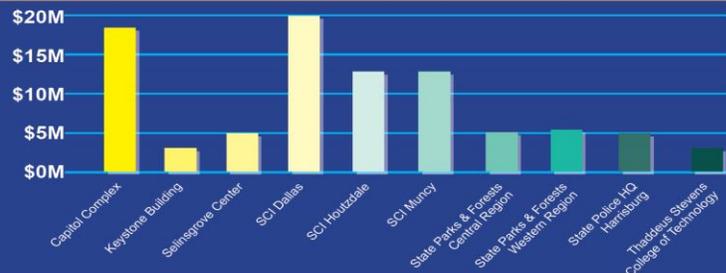
Minimum Annual Savings



\$4.6M



PROJECT INVESTMENT



MINIMUM ANNUAL ENERGY SAVINGS EQUIVALENT TO:



More than 3,100
Cars off the road



More than 37,000
Trees planted



More than 1,500
Homes' energy use

“Striving to manage facilities to high-performance building standards”

- **GESA Projects** to deliver energy-savings results while reducing operational costs
- **Energy conservation measures** including LED lighting, building automation systems & commissioning/re-commissioning
- **Act 129 Rebates** for further savings on energy-saving projects

Focus Group: Green Construction & Leasing Specs

Management Directive 2019-01: New construction project & lease goal to achieve a **10 percent reduction in energy consumption** over ANSI / ASHRAE / IES Standard 90.1.2016

- **Collaborative effort** to create energy-saving construction and lease specifications
- **Opportunities for saving** through Commonwealth-managed lease electricity accounts (EnergyCAP)



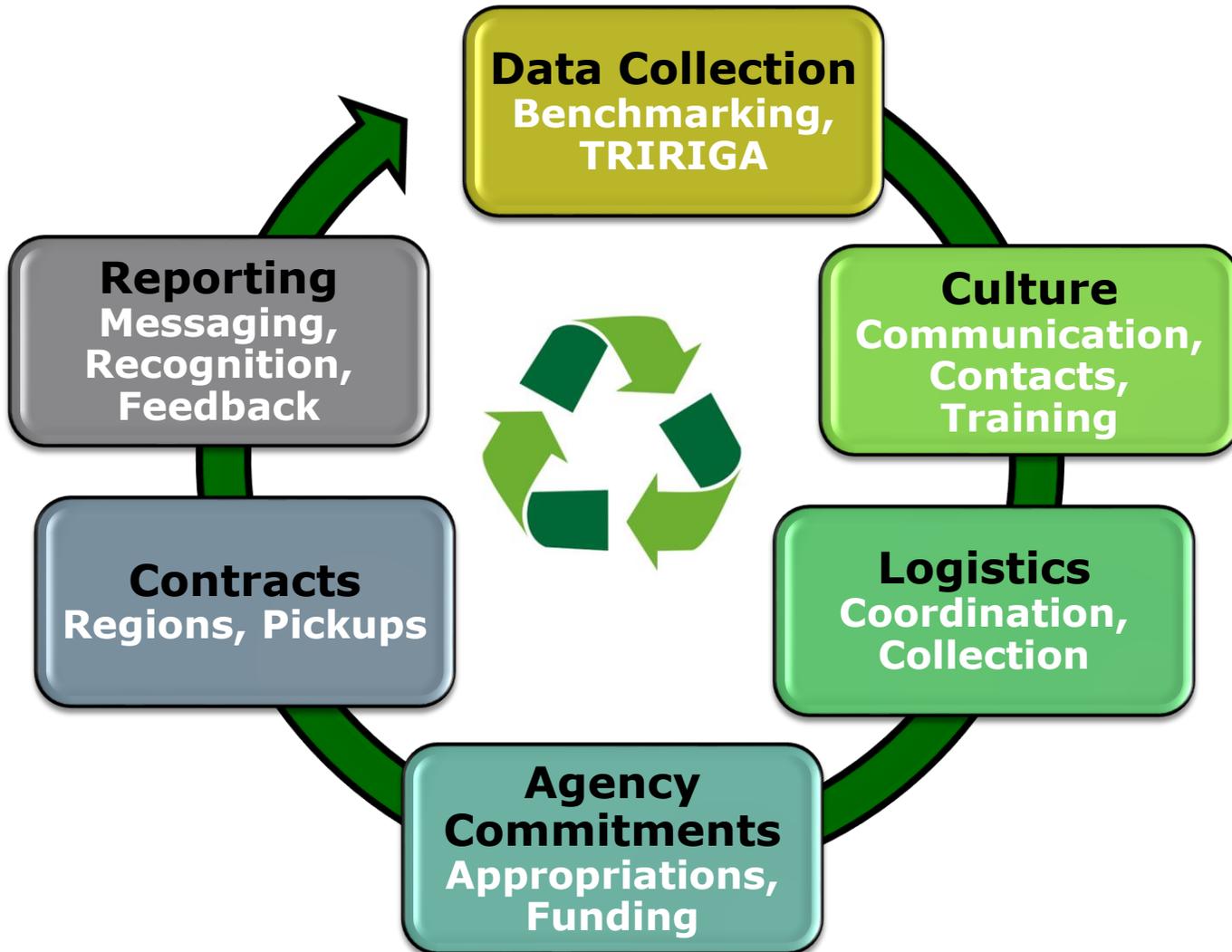
Photo Credit: BuildingToday

Focus Group: Products & Materials (Procurement)

***"Selecting
Environmentally-
Preferred Products
for the Conservation
of Resources"***

- Procure renewable energy to offset at least **40% of the Commonwealth's annual electricity**, and/or directly purchase renewable power generation sited within PA
- Choosing products & materials with the lowest **harmful environmental impacts**
- Specifying **recycled content** within procurement selections

Focus Group: Products & Materials (Recycling)



"Program Success through Partnership and Commitment"

Public Outreach

- **Highlighting Agency successes** and promoting through the GreenGov website and media channels
- **Solicitation and sharing of ideas** through public meetings
- **Sharing Results** of the GreenGov Checklist and Program status



***"Commonwealth
Agencies Leading
by Example"***

Agency Highlights

DMVA

- Fort Indiantown Gap Solar Array
- Energy Conservation Measures

Fish & Boat

- Hatchery Conservation
- Energy Saving GESA Projects

Banking & Securities

- Culture, Policy, Resilience
- Energy Conservation Measures

PennDOT

- State-Wide P3 Projects
- Alternative Fuels & Electric Vehicles

Inspector General

- Culture, Policy, Resilience
- Energy Conservation Measures

***"Highlighting
Agency
Successes"***

Agency Highlight: Military & Veterans Affairs



Marc Ferraro, Deputy for Facilities and Engineering

Agency Highlight: Fish & Boat Commission



Bernie Matscavage, Director, Bureau of Administration

Agency Highlight: Banking and Securities



Nicole Bair, Executive Assistant, Office of the Secretary

Agency Highlight: Transportation



Joseph L. Gurinko, AICP, Deputy Director, PennDOT P3 Office

Agency Highlight: Inspector General



Lucas M. Miller, Deputy State Inspector General

Thank You!!



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717-787-4987 RA-GSGreenGov@pa.gov dgs.pa.gov/greengov

