



# The 2021 State Transportation Electrification Scorecard

**Drive Clean PA Coalition Meeting**  
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**ACEEE**

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The American Council for an Energy-Efficient Economy is a nonprofit 501(c)(3) founded in 1980. We act as a catalyst to advance energy efficiency policies, programs, technologies, investments, & behaviors.

Our research explores economic impacts, financing options, behavior changes, program design, and utility planning, as well as US national, state, & local policy.

Our work is made possible by foundation funding, contracts, government grants, and conference revenue.

# Scorecard Goals

Highlight the important role of state policies to promote transportation electrification

Benchmark all states on transportation electrification policies

Demonstrate how EV policies work with others to maximize relevant GHG reduction

Identify promising policies to scale both EVs and EV chargers



## THE STATE TRANSPORTATION ELECTRIFICATION SCORECARD

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RESEARCH REPORT  
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**ACEEE**  
American Council for an Energy-Efficient Economy

# Overview of Scoring Methodology



**EV and EV charging infrastructure planning/goal setting** - government-led planning actions for transportation electrification and their binding and nonbinding target-setting activity for EV and charging infrastructure deployment.



**Incentives for EV deployment** - financial and nonfinancial incentives to spur EV purchases and the installation of charging infrastructure.



**Transportation system efficiency** - policies that support the deployment of EVs while maximizing emissions reductions and improving accessible, cost effective, equitable, and clean mobility options for all.



**Electricity grid optimization** - actions PUCs take to support utility management of EV charging to maximize reliability and minimize costs and greenhouse gas emissions.



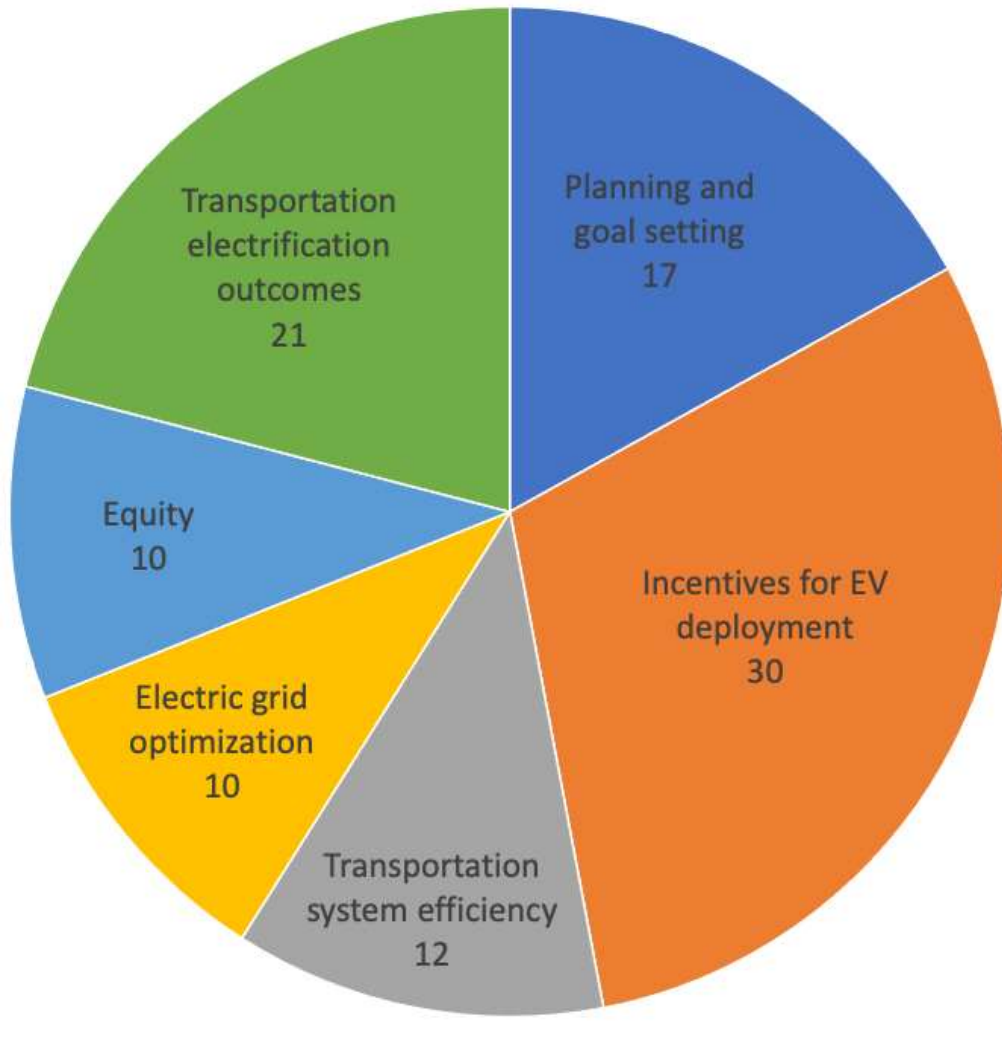
**EV equity** - state and PUC-approved utility efforts to ensure access to and deployment of electrified transportation in low-income, economically distressed, and EJ communities.



**Transportation electrification outcomes**- track progress or evaluate efforts on EV adoption, infrastructure installation, and GHG emissions.



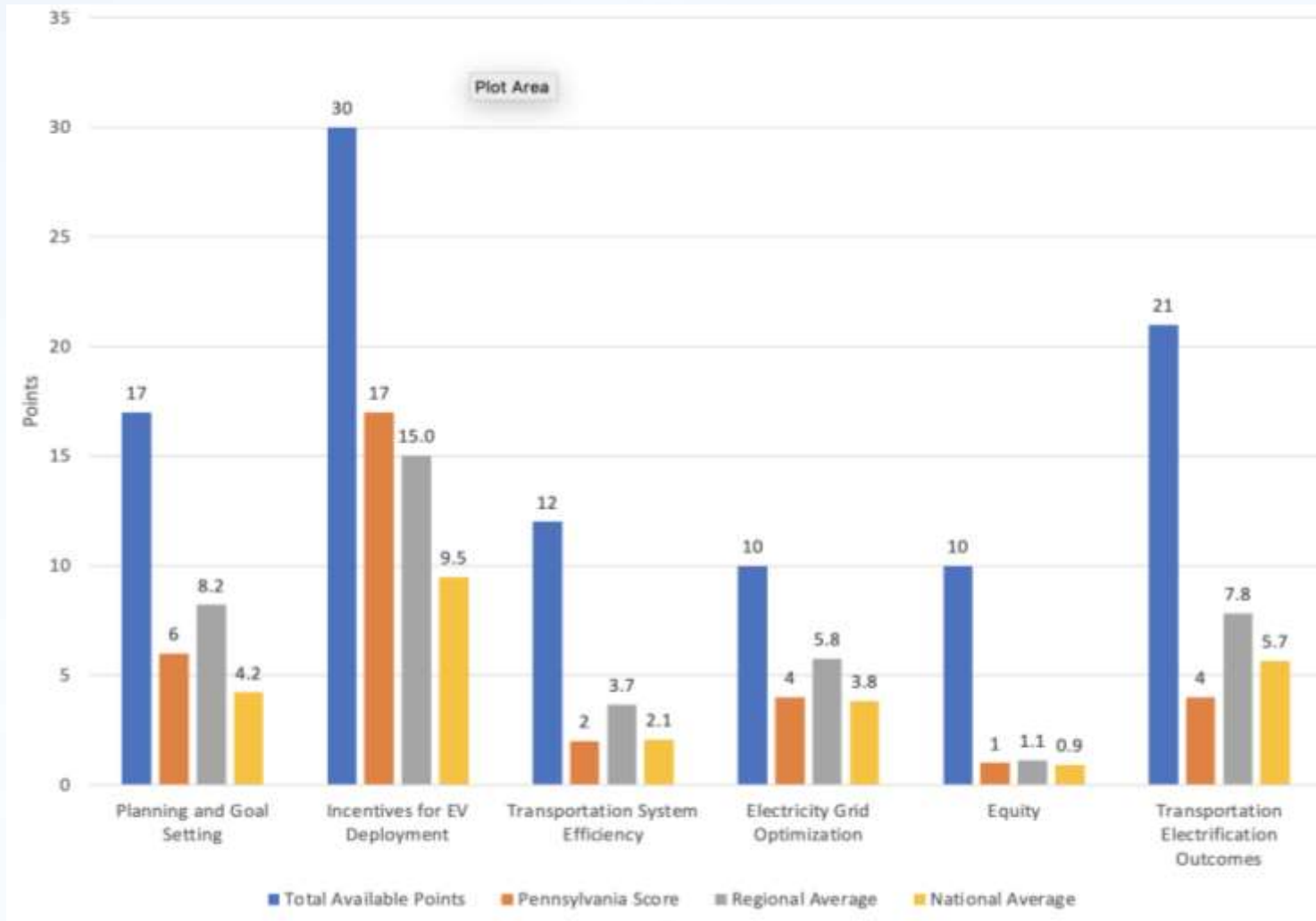
# Overview of Scoring Methodology



- Points allocated to reflect the magnitude of impact on EV deployment for LD and HD
- Greatest weight to state incentives category
- Three specific policy levers that have the greatest impact: ZEV mandates, vehicle purchase incentives, EVSE installation incentives



# Pennsylvania TE Scores

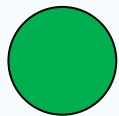


Total Score = 34/100, Ranked 17<sup>th</sup>

# Planning and Goal Setting

Available points: 17  
PA Score: 6

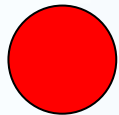
Points earned for EV action plan and HD MOU



- **Action plan** - Pennsylvania Electric Vehicle Roadmap



- **HD ZEV** – Signatory to NESCAUM HD ZEV MOU. Follow through needed on adoption and implementation



- **Deployment targets** – Good opportunity strengthen EV roadmap by including explicit targets for LD and HD

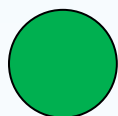


# Incentives for EV Deployment

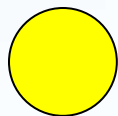
Available points: 30

PA Score: 17

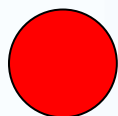
Points earned for LD and HD EV purchase incentives and state and utility incentives for EV charging infrastructure



**Purchase incentives** - considers additional awards for income-qualifying households



**Utility EVSE incentives** – approval for one utility sets stage for other approvals



**Volkswagen funding**– Opportunity for VW spending to prioritize more EVs

# Transportation System Efficiency

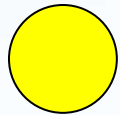
Available points: 12

PA Score: 2

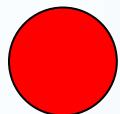
Points earned interest in TCI and investment in electric transit buses



**EV transit bus deployment** – Use of Low/No funding



**GHG pricing policies**– TCI interest and collaboration



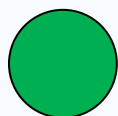
**GHG targets**– Create transportation-specific emissions reduction goals

# Electricity Grid Optimization

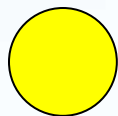
Available points: 10

PA Score: 4

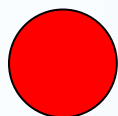
Points earned DCFC enabling rates and electric power sector emissions targets



**DCFC rates** – PECO rate pilot for 50% fixed demand credit



**Emissions targets** – below average emissions and specific utility sector targets in place



**Managed charging programs** – Opportunity for utility-led efforts

# EV Equity

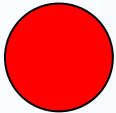
Available points: 10

PA Score: 1

Points earned utility-focused LMI programs



**Utility LMI programs** – Duquesne Light Charge Up program



**Managed charging programs** – Opportunity for additional utility-led efforts and potential use of TCI to create equitable transportation electrification programs

# Pennsylvania Achievements in TE Outcomes

Metric	Pennsylvania	National Average	Regional Average
LD EVs per 100,000 people	105.91	169.7	155.67
HD EVs per 100,000 people	0.2	0.3	0.27
L2 ports per 100,000 people	10.37	18.44	24.31
DCFC ports per 100,000 people	13.28	24.27	31.31
EV transit buses per 100,000 people	0.29	0.58	0.48

- Outcome metrics - track whether policies are having impact
- PA scores lower than the national and regional average in all 5 of the categories highlighted above



# Questions?



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