50 States of Electric Vehicles Overview

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CSG Policy Academy
The Intersection of Innovation & Infrastructure
December, 2018
About the NC Clean Energy Technology Center

• UNC System-chartered Public Service Center administered by the College of Engineering at North Carolina State University
• Our mission is to advance a sustainable energy economy by educating, demonstrating and providing support for clean energy technologies practices and policies.
• Objective research, analysis, & technical assistance
• Education and outreach for the public and fleet professionals
• Other projects include the Database of State Incentives for Renewables and Efficiency (DSIRE) – www.dsireusa.org
About the 50 States of Electric Vehicles

Quarterly report detailing state & utility activities related to Electric Vehicle Studies & Investigations
Regulation
Utility Rate Design
Market Development
Financial Incentives
Deployment

Tracking regulatory and legislative activity since Q4 2017

General Information + Access Full Report
https://nccleantech.ncsu.edu/the-50-states-reports/
An “action” is a relevant -
(1) Legislative bill that has been introduced
(2) Executive action
(3) Regulatory docket, utility rate case, or rulemaking proceeding
## Q3 2018 Action on Electric Vehicle Policy, Regulation, and Deployment

**Table 1. Summary of Electric Vehicle Actions (Q3 2018)**

<table>
<thead>
<tr>
<th>Type of Action</th>
<th># of Actions</th>
<th>% by Type</th>
<th># of States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial Incentives</td>
<td>56</td>
<td>27%</td>
<td>11 + DC</td>
</tr>
<tr>
<td>Studies and Investigations</td>
<td>34</td>
<td>16%</td>
<td>23 + DC</td>
</tr>
<tr>
<td>Deployment</td>
<td>32</td>
<td>15%</td>
<td>16 + DC</td>
</tr>
<tr>
<td>Regulation</td>
<td>31</td>
<td>15%</td>
<td>12</td>
</tr>
<tr>
<td>Market Development</td>
<td>30</td>
<td>14%</td>
<td>7 + DC</td>
</tr>
<tr>
<td>Rate Design</td>
<td>28</td>
<td>13%</td>
<td>18 + DC</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>211</strong></td>
<td><strong>100%</strong></td>
<td><strong>32 States + DC</strong></td>
</tr>
</tbody>
</table>

Note: The “# of States/ Districts” total is not the sum of the rows because some states have multiple actions. Percentages are rounded and may not add up to 100%.
Most Active States Q3 2018
By Number of Actions Taken

1) New Jersey
2) California
3) New York
Most Common Types of Actions in Q3 2018

1) Level 2 Charging Deployment
2) EV Rate Tariff
3) Fast Charging Deployment
4) Rebate Program
5) EV Studies

Figure 4. Most Common Types of Actions Taken in Q3 2018
23 States + DC took action on *Studies and Investigations* during Q3 2018
12 States took action on EV Regulation during Q3 2018.
18 States + DC took action on *EV Rate Design* during Q3 2018

Q3 2018 Action on EV Rate Design

- Q3 2018 action
- No recent action
7 States + DC took action on *EV Market Development* during Q3 2018

**Q3 2018 Action on EV Market Development**

- States: California, Nevada, New Jersey, Illinois, New York, Pennsylvania, Rhode Island
- District of Columbia

Legend:
- Q3 2018 action
- No recent action
Most Common EV Market Development Actions

Figure 12. Most Common Market Development Actions (Q3 2018)

Incentive Type

- Electric Vehicle Procurement
- State or Local Planning
- Advisory Group
- Electric Vehicle Parking
- HOV Lane Access

# of Actions
11 States + DC took action on EV Incentives during Q3 2018
16 States + DC took action on *EV Charging Infrastructure & Deployment* during Q3 2018
Takeaways

• Level 2 Charging Deployment was the most common action taken in Q3
  – Both utilities and state legislatures are contributing to this development.

• The greatest number of states (23 + DC) took action related to studies and investigations
  – Some states are developing comprehensive plans, while other states are addressing narrow or specific issues.

• This is only the beginning!
  – In Q3, utility actions advance EV deployment, incentives, and rate design proposals
EV Actions by Category

2017 to Q3 2018

Figure 3. Electric Vehicle Action by Category, 2017 to Q3 2018
The full report includes a summary spreadsheet with each action with active links to state bills and utility docket.
About the 50 States Report Series

*Quarterly* publications detailing *state and utility* changes related to: solar policy & rate design, grid modernization & energy storage, and electric vehicles
Thank you!

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Most Common EV Regulation Actions

Figure 9. Most Common Types of Electric Vehicle Regulation Actions (Q2 2018)