NYSERDA Electric Vehicle Charging Infrastructure Report

Report period: April 2015 through June 2015
New York State

EVSE Usage - By Access Type

<table>
<thead>
<tr>
<th></th>
<th>Public</th>
<th>Limited</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of charging ports</td>
<td>293</td>
<td>141</td>
<td>434</td>
</tr>
<tr>
<td>Number of charging events</td>
<td>7,815</td>
<td>2,458</td>
<td>10,273</td>
</tr>
<tr>
<td>Electricity consumed (AC MWh)</td>
<td>47.08</td>
<td>17.85</td>
<td>64.94</td>
</tr>
<tr>
<td>Percent of time with a vehicle connected</td>
<td>4.5%</td>
<td>5.0%</td>
<td>4.6%</td>
</tr>
<tr>
<td>Percent of time with a vehicle drawing power</td>
<td>2.3%</td>
<td>2.5%</td>
<td>2.3%</td>
</tr>
</tbody>
</table>

Charging Availability: Range of Percentage of All Charging Ports with a Vehicle Connected versus Time of Day

Charging Demand: Range of Aggregate Electricity Demand versus Time of Day for All Charging Ports

1 Includes all EVSE ports in use during the reporting period and have reported data to INL.
2 A charging event is defined as the period when a vehicle is connected to a charging unit, during which power is transferred.
3 Limited Access EVSE are primarily for use by employees or tenants (including paying guests at hotels) and are placed where these EV drivers would normally park, but others (such as visitors or customers) may be able to plug in on a more limited basis.
4 Weekends start at 6:00am on Saturday and end 6:00am Monday local time.
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<table>
<thead>
<tr>
<th>EVSE Usage - By Access Type</th>
<th>Public</th>
<th>Limited²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of charging ports¹</td>
<td>293</td>
<td>141</td>
</tr>
<tr>
<td>Number of charging events²</td>
<td>7,815</td>
<td>2,458</td>
</tr>
<tr>
<td>Charging energy consumed (AC MWh)</td>
<td>47.1</td>
<td>17.9</td>
</tr>
<tr>
<td>Average percent of time with a vehicle connected per charging port</td>
<td>4.5%</td>
<td>5.0%</td>
</tr>
<tr>
<td>Average percent of time with a vehicle drawing power per charging port</td>
<td>2.3%</td>
<td>2.5%</td>
</tr>
<tr>
<td>Average number of charging events started per charging port per week</td>
<td>2.1</td>
<td>1.5</td>
</tr>
<tr>
<td>Average electricity consumed per charging port per week (AC KWh)</td>
<td>12.6</td>
<td>10.9</td>
</tr>
<tr>
<td>Average length of time with vehicle connected per charging event (hr)</td>
<td>3.6</td>
<td>5.6</td>
</tr>
<tr>
<td>Average length of time with vehicle drawing power per charging event (hr)</td>
<td>1.8</td>
<td>2.8</td>
</tr>
<tr>
<td>Average electricity consumed per charging event (AC kWh)</td>
<td>6.0</td>
<td>7.3</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>EVSE Usage - By Required Payment</th>
<th>For Fee</th>
<th>Free</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of charging ports¹</td>
<td>65</td>
<td>369</td>
</tr>
<tr>
<td>Number of charging events²</td>
<td>560</td>
<td>9,713</td>
</tr>
<tr>
<td>Charging energy consumed (AC MWh)</td>
<td>7.3</td>
<td>57.6</td>
</tr>
<tr>
<td>Average percent of time with a vehicle connected per charging port</td>
<td>2.5%</td>
<td>5.0%</td>
</tr>
<tr>
<td>Average percent of time with a vehicle drawing power per charging port</td>
<td>1.1%</td>
<td>2.5%</td>
</tr>
<tr>
<td>Average number of charging events started per charging port per week</td>
<td>0.7</td>
<td>2.1</td>
</tr>
<tr>
<td>Average electricity consumed per charging port per week (AC KWh)</td>
<td>8.8</td>
<td>12.7</td>
</tr>
<tr>
<td>Average length of time with vehicle connected per charging event (hr)</td>
<td>6.2</td>
<td>4.0</td>
</tr>
<tr>
<td>Average length of time with vehicle drawing power per charging event (hr)</td>
<td>2.9</td>
<td>2.0</td>
</tr>
<tr>
<td>Average electricity consumed per charging event (AC kWh)</td>
<td>13.1</td>
<td>5.9</td>
</tr>
</tbody>
</table>

1 Includes all EVSE ports in use during the reporting period and have reported data to INL.

2 A charging event is defined as the period when a vehicle is connected to a charging unit, during which power is transferred.
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<table>
<thead>
<tr>
<th>EVSE Usage - By Land Use Type</th>
<th>Urban</th>
<th>Suburban</th>
<th>Rural</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of charging ports¹</td>
<td>168</td>
<td>231</td>
<td>35</td>
</tr>
<tr>
<td>Number of charging events²</td>
<td>4,024</td>
<td>5,936</td>
<td>313</td>
</tr>
<tr>
<td>Charging energy consumed (AC MWh)</td>
<td>32.2</td>
<td>30.7</td>
<td>2.0</td>
</tr>
<tr>
<td>Average percent of time with a vehicle connected per charging port</td>
<td>6.3%</td>
<td>3.9%</td>
<td>1.5%</td>
</tr>
<tr>
<td>Average percent of time with a vehicle drawing power per charging port</td>
<td>2.8%</td>
<td>2.2%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Average number of charging events started per charging port per week</td>
<td>1.9</td>
<td>2.1</td>
<td>0.7</td>
</tr>
<tr>
<td>Average electricity consumed per charging port per week (AC KWh)</td>
<td>15.3</td>
<td>10.9</td>
<td>4.5</td>
</tr>
<tr>
<td>Average length of time with vehicle connected per charging event (hr)</td>
<td>5.6</td>
<td>3.1</td>
<td>3.6</td>
</tr>
<tr>
<td>Average length of time with vehicle drawing power per charging event (hr)</td>
<td>2.4</td>
<td>1.8</td>
<td>1.9</td>
</tr>
<tr>
<td>Average electricity consumed per charging event (AC kWh)</td>
<td>8.0</td>
<td>5.2</td>
<td>6.5</td>
</tr>
</tbody>
</table>

¹ Includes all EVSE ports in use during the reporting period and have reported data to INL.
² A charging event is defined as the period when a vehicle is connected to a charging unit, during which power is transferred.

For more information, visit avt.inl.gov
**EVSE Usage - By Region**

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of charging ports</th>
<th>Number of charging events</th>
<th>Charging energy consumed (AC MWh)</th>
<th>Average percent of time with a vehicle connected per charging port</th>
<th>Average percent of time with a vehicle drawing power per charging port</th>
<th>Average number of charging events started per charging event per week</th>
<th>Average electricity consumed per charging port per week (AC kWh)</th>
<th>Average length of time with vehicle connected per charging event (hr)</th>
<th>Average electricity consumed per charging event (AC kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York City</td>
<td>86</td>
<td>964</td>
<td>12.6</td>
<td>4.7%</td>
<td>2.2%</td>
<td>0.9</td>
<td>11.6</td>
<td>8.8</td>
<td>13.1</td>
</tr>
<tr>
<td>Long Island</td>
<td>55</td>
<td>1,016</td>
<td>7.0</td>
<td>5.0%</td>
<td>2.0%</td>
<td>1.8</td>
<td>12.3</td>
<td>4.7</td>
<td>6.9</td>
</tr>
<tr>
<td>Hudson Valley</td>
<td>54</td>
<td>997</td>
<td>7.0</td>
<td>5.6%</td>
<td>3.2%</td>
<td>1.5</td>
<td>10.8</td>
<td>6.1</td>
<td>4.8</td>
</tr>
<tr>
<td>Capital District</td>
<td>101</td>
<td>3,861</td>
<td>18.7</td>
<td>4.9%</td>
<td>2.5%</td>
<td>1.5</td>
<td>14.4</td>
<td>2.8</td>
<td>5.5</td>
</tr>
<tr>
<td>Syracuse/Central NY</td>
<td>19</td>
<td>264</td>
<td>1.5</td>
<td>1.7%</td>
<td>1.2%</td>
<td>1.1</td>
<td>6.1</td>
<td>2.6</td>
<td>5.1</td>
</tr>
<tr>
<td>Rochester/Finger Lakes</td>
<td>34</td>
<td>1,350</td>
<td>6.9</td>
<td>7.0%</td>
<td>3.1%</td>
<td>3.1</td>
<td>16.1</td>
<td>3.8</td>
<td>5.1</td>
</tr>
<tr>
<td>Mohawk Valley</td>
<td>10</td>
<td>67</td>
<td>0.3</td>
<td>0.5%</td>
<td>0.4%</td>
<td>1.0</td>
<td>16.1</td>
<td>1.4</td>
<td>4.5</td>
</tr>
<tr>
<td>North Country</td>
<td>21</td>
<td>295</td>
<td>1.3</td>
<td>1.2%</td>
<td>0.8%</td>
<td>1.1</td>
<td>25.9</td>
<td>1.8</td>
<td>4.3</td>
</tr>
<tr>
<td>Western NY</td>
<td>48</td>
<td>1,318</td>
<td>8.3</td>
<td>4.4%</td>
<td>2.2%</td>
<td>2.1</td>
<td>13.4</td>
<td>3.5</td>
<td>6.3</td>
</tr>
</tbody>
</table>

¹ Includes all EVSE ports in use during the reporting period and have reported data to INL.

² A charging event is defined as the period when a vehicle is connected to a charging unit, during which power is transferred.

³ Regions with less than 10 EVSE ports are not individually represented, and are combined and reported as ‘Other’.

⁴ Only 5 or 6 regions with the most EVSE ports are individually represented, with the remaining regions combined and shown as ‘Other’.

For more information, visit avt.inl.gov
### EVSE Usage - By Venue

<table>
<thead>
<tr>
<th>Venue</th>
<th>Number of charging ports¹</th>
<th>Number of charging events²</th>
<th>Charging energy consumed (AC MWh)</th>
<th>Average percent of time with a vehicle connected per charging port</th>
<th>Average percent of time with a vehicle drawing power per charging port</th>
<th>Average number of charging events started per charging port per week</th>
<th>Average electricity consumed per charging port per week (AC KWh)</th>
<th>Average length of time with vehicle connected per charging event (hr)</th>
<th>Average length of time with vehicle drawing power per charging event (hr)</th>
<th>Average electricity consumed per charging event (AC kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parking Lot/Garage (non-NYC)</td>
<td>52</td>
<td>1,813</td>
<td>9.4</td>
<td>6.3%</td>
<td>2.7%</td>
<td>2.8</td>
<td>14.5</td>
<td>3.8</td>
<td>1.6</td>
<td>5.2</td>
</tr>
<tr>
<td>Parking Lot/Garage (NYC)</td>
<td>68</td>
<td>568</td>
<td>10.0</td>
<td>4.5%</td>
<td>2.3%</td>
<td>0.7</td>
<td>11.6</td>
<td>11.4</td>
<td>5.8</td>
<td>17.5</td>
</tr>
<tr>
<td>Retail Location</td>
<td>73</td>
<td>2,754</td>
<td>10.6</td>
<td>2.2%</td>
<td>1.8%</td>
<td>3.0</td>
<td>11.4</td>
<td>1.2</td>
<td>1.0</td>
<td>3.8</td>
</tr>
<tr>
<td>Workplace</td>
<td>62</td>
<td>1,163</td>
<td>7.4</td>
<td>5.7%</td>
<td>2.9%</td>
<td>1.4</td>
<td>9.2</td>
<td>6.6</td>
<td>3.4</td>
<td>6.4</td>
</tr>
<tr>
<td>Multi-Family &amp; Hotel</td>
<td>15</td>
<td>148</td>
<td>1.9</td>
<td>4.6%</td>
<td>1.3%</td>
<td>0.8</td>
<td>10.7</td>
<td>9.4</td>
<td>2.6</td>
<td>2.6</td>
</tr>
<tr>
<td>Hotel</td>
<td>28</td>
<td>218</td>
<td>2.0</td>
<td>2.4%</td>
<td>0.9%</td>
<td>0.6</td>
<td>5.5</td>
<td>6.8</td>
<td>2.4</td>
<td>2.8</td>
</tr>
<tr>
<td>University or Medical Campus</td>
<td>94</td>
<td>2,926</td>
<td>20.0</td>
<td>6.9%</td>
<td>3.4%</td>
<td>2.8</td>
<td>19.0</td>
<td>4.2</td>
<td>2.0</td>
<td>6.9</td>
</tr>
<tr>
<td>Leisure Destination</td>
<td>21</td>
<td>560</td>
<td>3.0</td>
<td>3.7%</td>
<td>2.0%</td>
<td>2.1</td>
<td>10.8</td>
<td>4.2</td>
<td>1.6</td>
<td>5.3</td>
</tr>
<tr>
<td>Transit Station</td>
<td>19</td>
<td>114</td>
<td>0.6</td>
<td>1.4%</td>
<td>0.5%</td>
<td>0.5</td>
<td>3.7</td>
<td>4.2</td>
<td>1.7</td>
<td>5.3</td>
</tr>
</tbody>
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