# New Charging Station Site Suitability

Tompkins County Plug-in Electric Vehicle Infrastructure Plan





Contract No. 57495

Prepared by: Energetics Incorporated Clean Communities of Central New York The Ithaca-Tompkins County Transportation Council







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Report Date: November 2016





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### Introduction

An electric vehicle (EV) charging station Site Suitability Criteria Tool ("Tool") was developed to help compare the viability for installing alternating current (AC) Level 1 or 2 EV charging stations (used by plugin hybrid electric vehicles [PHEV] and all-electric battery electric vehicles [BEV]) in various locations, but primarily for sites with public access. Direct current (DC) fast charging can quickly replenish an EV's battery (~80% charge in 20 minutes), but were not accounted for by this Tool because they are very costly which would limit their installations to sites with convenient EV access for short charge durations and sufficient electrical power capacity. Every location is unique and it is not possible to accurately account for all circumstances. The ratings are based on best practices and analysis of prior EV charging station installations. Each answer has a comment to explain the impact of each selection. This provides added insight to the user and educates potential site owners while scoring site suitability. The Tool is best used to compare relatively similar sites (e.g., public access locations in the same county), the same installation approach (e.g., just commercial AC level 2 stations rather than a mix of Level 1 and Level 2 stations), and identical criteria importance factors (i.e., value to EV drivers, cost, exposure).

The Tool's questions are grouped by topic area: Site Ownership and Zoning; Site Location and Surrounding Environment; Expected EV Charging Station Users and Accessibility; Parking Lot or Garage Characteristics; Existing Electrical Infrastructure; and EV Charging Station Selection. The first question asks for input on site suitability factor importance to determine which are most critical for the site host or station sponsor, depending on who is using this Tool. The results impact the weighting of factors that influence the overall site suitability score. Shown in Figure 1, the various components of the suitability score (smaller green gauges to the right) contribute to the overall site suitability score (larger blue gauge on the left).



Figure 1. Site Suitability Criteria Tool Score Gauges

For the EV Infrastructure Plan in Tompkins County, the Tool was used to compare and rank potential sites for new charging infrastructure. Since the focus of this effort is primarily public accessible stations, an AC Level 2 networked station was selected for every site to conduct this comparison based on site characteristics and not station selection (therefore, the equipment cost score is not shown for the top sites profiled in this report). The project's steering committee also set the site suitability factor importance for all sites to maintain a level comparison, as follows:

- Likelihood of a newly installed charging station to be used by current EV drivers is Very Important,
- The purchase and installation cost of the charging station is also *Very Important* (and is influenced by site characteristics, not just the station selection which was set),
- The charging station providing a positive image for the organization is Important, and
- The use of the charging station to serve as marketing for potential EV buyers is *Slightly Important*.



The questions and answers impacting the component scores are listed in Table 1, which do not necessarily align with the topic areas (for which the questions are numerically ordered). Also shown on this table is the weight or influence of that individual question to that component score, with a greater weight indicating a more critical element of the installation.

Questions Pertaining to General Site Suitability	Weight
2. Do you own or lease the parking lot where the EV charging station will be installed?	25%
3. Do you own or lease the building where electricity will be drawn for the EV charging station?	20%
4. What is the Zoning classification for the EV charging station site?	20%
13. How many parking spaces are in the lot or garage?	15%
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?	5%
20. Would the EV charging station be located in a covered parking space?	5%
21. Would the EV charging station need to be placed where it would obstruct plowing?	10%
Questions Pertaining to the Value for EV Drivers	Weight
5. Which venue best describes the proposed EV charging station location?	30%
6. How long do drivers typically park their vehicles at this location?	20%
9. Which potential EV drivers are expected to use the charging station?	10%
10. Would an EV driver require a permit, sticker, or card to access the parking lot where the charging station	
is located?	5%
11. Is there a fee to access the parking lot where the charging station would be located?	10%
12. Would the charging station be located in a parking lot or garage with limited hours of operation?	10%
14. Typically, how full is the parking lot or garage?	5%
22. Would the EV charging station be in a preferred parking space?	5%
23. Are there lights illuminating the parking lot at night?	5%
Questions Pertaining to the Exposure and Image Benefit for the Site Owner	Weight
7. Is this location used for any special event parking?	20%
8. How far is this location from the nearest US or State road (NY Route X)?	20%
15. Is there fluctuation in parking lot use by season?	20%
16. Is there fluctuation in parking lot use by day of the week?	10%
24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or	
garage?	30%
Questions Pertaining to the Installation Costs	Weight
17. Are there parking spaces next to the building that would be used for EVs to charge?	40%
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level	
2 charging station?	30%
26. How recently has electrical work been performed at this location?	10%
27. How far is the electrical panel from the point of the building closest to where the charging station would	200/
De localeu : Ouestiene Destaining to the Station Equipment Costs	20%
28. Which EV charging station type would be installed at this location?	
20. Could the EV charging station type would be installed at this location?	30%
29. Could the charging station be mounted to an existing structure or be installed as a stand-alone pedestal?	40%
so, would the charging station be networked and connected to a charging management company's software	200/

#### Table 1. EV Charging Station Site Suitability Criteria Tool Questions





Examples of completed Site Suitability Criteria Tools with responses typical for a very good site to install an EV charging station and another with responses typical for a very poor site to install an EV charging station are included in Appendix A. The informational note accompanying each response explains why the selected site characteristic is better or worse for installing an EV charging station.

A list of potential new charging station locations in Tompkins County was compiled by looking for key site attributes. Input was provided by the Tompkins County EV Infrastructure Plan Steering Committee and the Tompkins County Electric Vehicle Network. The list included more than 90 sites from around the county, each varying in lot size and site use. Locations included:

- Tompkins County tourist destinations
- Ithaca City parking garages
- Sports and Recreation facilities
- University and College campuses in Tompkins County
- Tompkins County state parks

Hotel and lodging sites

•

- Major shopping centersTCAT bus stops outside the Ithaca city limits
- The list of potential sites for new charging stations was separated geographically into five geographical areas shown on Figure 2 that included the City of Ithaca, Cayuga Heights/Village of Lansing, Northwest Tompkins County, Northeast Tompkins County, and Southern Tompkins County. Individual maps for each geographical area with the potential sites labeled are included in Appendix B. Survey responses by the

Tompkins County EV Infrastructure Plan Steering Committee and the Tompkins County Electric Vehicle Network were used to rank the desirability of each potential location for installing a new charging station. The final rankings of all the potential sites are shown in Table 2 and Table 2: Potential Location List (cont.).



Figure 2: Tompkins County Potential and Existing EV Charging Station Locations by Area



Possible sites	Venue types	Parking spaces	Survey Rank	Address
Tompkins-Cortland Community College	Education	1000+	9.3	170 North Sreet, Dryden
Ithaca College	Education	1000+	9.0	953 Danby Rd, Ithaca
All Pro Parking Garage S Cayuga Street	Parking	200+	9.0	235 S Cayuga St, Ithaca
Green Street Garage	Parking	N/A	9.0	120-126 E Green St, Ithaca
Seneca St. Parking Garage	Parking	200+	9.0	215 N Tioga St. Ithaca
Shops at Ithaca Mall	Retail	1000+	8.0	40 Catherwood Rd. Village of Lansing
Ithaca- Tompkins Regional Airport	Transit hub	150	8.0	1 Culligan Dr. Ithaca
Triphammer Marketplace	Retail	200	7.9	2255 N Triphammer Rd. Ithaca
Taughannock Falls State Park	Parks/Recreation	N/A	79	1740 Taughannock Blvd Trumansburg
GreenStar Cooperative Market	Retail	40	79	301 W Court St Ithaca
Cornell I of A - near Childcare Facility	Education	400+	77	150 Pleasant Grove Road Ithaca
Weamans	Retail	450+	76	500 S Meadow St Ithaca
Fast Hill Plaza	Retail	300+	7.5	E Hill Plaza Ithaca
Cornell Lot B - near Vet Medical Center	Education	950+	7.0	Blot Campus Road Ithaca
Robert H. Treman State Park	Parks/Recreation	150+	73	105 Enfield Falls Rd. Ithaca
Ithaca Shopping Plaza	Retail	300+	73	222 Elmira Rd Ithaca
Freeville Public Lot	Parking	20	7.0	46 Main Street Freeville
Village of Dryden Municipal Lot	Parking	60	7.2	2 George St. Dryden
Island Health and Eitness	Parks/Poorpation	40	7.2	310 Taughappock Plud #1. Ithaca
	Education	200+	7.4	555 Morron Dd Ithaca
Kondal at Ithaaa	Potiromont Commu	100+	7.1	2220 N Triphammer Ed Ithana
	Retreitent Commu	F00+	7.1	2200 N Triphammer Rd Ithaaa
Cayuya Mali	Retall	500+	7.1	2009 N Inplianiner Ru, , Illiaca
The Statler Hoter at Comeil University	Holei Dadia (Descention	IN/A	7.0	1 James L. Citta Drive Ithese
Slewari Park	Parks/Recreation	30	0.9	1707 E Charles Dr. Wheel
	Parks/Recreation	120	6.9	1767 E Shore Dr, Ithaca
Itnaca Farmers Market	Retail	180	0.8	Steamboat Landing, 545 3rd St, Ithaca
	Parks/Recreation	N/A	b./	701 Taughanhock Blvd, Ithaca
Community Corners	Retail	100	6.6	903 Hanshaw Rd, Ithaca
Hilton Garden Inn	Hotel	N/A	6.6	130 E Seneca St, Ithaca
Lansing Meyers Park	Parks/Recreation	N/A	6.6	1 Lansing Park Rd, Lansing
Tops Plaza	Retail	500+	6.5	700 S Meadow St, Ithaca
Homewood Suites	Hotel	300+	6.5	36 Cinema Dr, Ithaca
Ithaca High school	Education	40	6.4	1401 N Cayuga St, Ithaca
Gateway Plaza	Parking	100+	6.4	401 E State St, Ithaca
Sciencenter	Entertainment	70	6.3	601 1st St, Ithaca
Lower Buttermilk Falls State Park	Parks/Recreation	100	6.3	112 E Buttermilk Falls Rd, Ithaca
Cornell Cooperative Extension	Education	20	6.3	615 Willow Ave, Ithaca
Fairfield Inn and Suites	Hotel	N/A	6.3	359 Elmira Rd, Ithaca
Shure-Save, Trumansburg	Retail	150	6.2	2085 NY-96, Trumansburg
Kohls	Retail	500+	6.2	410 Elmira Rd #2, Ithaca
Ithaca Beer Company	Entertainment	100	6.2	122 Ithaca Beer Dr, Ithaca
Allan H Treman State Marine Park	Parks/Recreation	300+	6.2	805 Taughannock Blvd, Ithaca
NYSEG offices	Workplace	200	6.2	1387 Dryden Rd, Ithaca
Hampton Inn	Hotel	35	6.1	337 Elmira Rd, Ithaca
Dewitt Middle School	Education	50	6.0	560 Warren Rd, Ithaca
Atlas Bowl	Entertainment	150+	6.0	61 W Main St, Trumansburg
Brooktondale Community Center	Parking	25	5.9	524 Valley Rd, Brooktondale
Greater Ithaca Activities Center	Parks/Recreation	3	5.9	301 W Court St, Ithaca
Walmart Supercenter	Retail	500+	5.9	135 Fairgrounds Memorial Pkwy, Ithaca
Renovus Energy	Workplace	20	5.9	1520 Trumansburg Rd. Ulvsses
Hangar Theatre	Entertainment	40	5.9	801 Taughannock Blvd. Ithaca
Country Inn & Suites	Hotel	30	5.8	1100 Darby Pd Ithaca

#### Table 2: Potential Location List





Possible sites	Venue types	Parking spaces	Survey Rank	Address
Cayuga Heights Elementary School	Education	50	5.8	110 E Upland Rd, Ithaca
Taughannock Farms Inn	Hotel	20+	5.7	2030 Gorge Rd, Trumansburg
Lansing Town Hall	Parking	80	5.7	29 Auburn Road, Lansing
Caroline Town Court	Parking	30	5.7	2670 Slaterville Rd, Slaterville Springs
Rodeway Inn and Suites	Hotel	40	5.7	654 Elmira Rd, Ithaca
Caroline Elementary School	Education	50+	5.7	2439 Slaterville Rd, Slaterville Springs
Trumansburg Village Town Hall	Parking	40	5.7	11 Elm Street, Trumansburg
Cayuga Nature Center	Parks/Recreation	20	5.7	1420 Taughannock Blvd, Ithaca
Northeast Elementary School	Education	N/A	5.7	425 Winthrop Dr, Ithaca
Danby Town Clerk	Parking	10	5.6	1830 Danby Rd, Ithaca
Newfield Town Clerk	Parking	15	5.6	166 Main St, Newfielf
Boyton Middle School	Education	50	5.6	1601 N Cayuga St, Ithaca
Greyhound/Trailways Bus Station	Transit hub	20	5.6	710 W State St, Ithaca
Fall Creek Elementary School	Education	25	5.4	202 King St, Ithaca
Lansing Village Clerk	Parking	15	5.4	2405 N Triphammer Rd, Ithaca
South Hill Elementary School	Education	N/A	5.4	520 Hudson St, Ithaca
Enfield Elemantary School	Education	50	5.3	20 Enfield Main Rd, Ithaca
The Dock parking lot	Entertainment	100	5.3	415 Old Taughannock Blvd, Ithaca
Lehman Alternative County School	Education	30	5.2	111 Chestnut St, Ithaca
Belle Sherman Elementary School	Education	N/A	5.2	501 Mitchell St, Ithaca
Groton City Court House	Parking	30	5.2	204 Conger Boulevard, Groton
Newman Municipal Golf Course	Parks/Recreation	25	5.2	10 Pier Rd, Ithaca
Dryden Hotel	Entertainment	15	5.1	42 W Main St, Dryden
Cayuga Heights Village Court	Parking	15	5.1	836 Hanshaw Rd, Ithaca
Trumansburg Farmers Market	Parking	25	5.1	4 Corey St, Trumansburg
Kinney Drug Store, N Cayuga Street	Retail	10	5.0	513 N Cayuga St # A, Ithaca
Dryden Town Clerk	Parking	30	4.9	93 E Main St, Dryden
Colonial Laundarymat	Parking	25	4.9	16 E Main St, Trumansburg
Short Stop Deli	Entertainment	20	4.8	200 W Seneca St, Ithaca
Danby Fire Station	Parking	20	4.8	1780 Danby Rd, Ithaca
Six Mile Creek	Entertainment	15	4.8	1551 Slaterville Rd, Ithaca
Dryden Village Clerk	Parking	15	4.8	16 South St, Dryden
Trumansburg Fairgrounds	Parking	N/A	4.7	2150 Trumansburg Rd, Trumansburg
Plantation Bar and Grill	Entertainment	30	4.7	1285 Dryden Rd, Ithaca
Enfield Town Hall	Parking	30	4.7	168 Enfield Main Rd #7, Ithaca
Trumansburg Fire Station	Parking	25	4.6	74 W Main St, Trumansburg
Lansing Fire Company No. 4	Parking	50	4.5	1189 Auburn Road, Lansing
Juniper Hill Bed and Breakfast	Hotel	N/A	4.5	16 Elm St, Trumansburg
Lansing Fire Department No. 3	Parking	60	4.4	80 Ridge Road, Lansing
Nice n Easy Grocery, Dryden Rd	Retail	20	4.4	1321 Dryden Rd, Ithaca
Ithaca Yacht Club	Parks/Recreation	N/A	3.9	1090 Genwood Rd, Ithaca
Chamber of Commerce/Visitor Bureau	Parking	25	N/A	904 E Shore Drive, Ithaca

#### Table 2: Potential Location List (cont.)

The Site Suitability Criteria Tool was shared with the top potential locations for new charging stations, plus a few others highly recommended by the project committee. Site hosts then used the Tool to examine the appropriateness of their location for installing an EV charging station.





### Highly Suitable Sites for New Charging Stations in Tompkins County

The sites that completed a site analysis using the Tool are ranked in Table 3 based on their score from the highest to lowest scores. Note that the Tool rank is based on specific site characteristics whereas the survey results were opinion based. The top 10 are highlighted in this section as highly suitable sites for new charging station installations and shown on the Figure 3 map along with the existing EV charging station in the county. Answers for all the completed responses are found in Appendix C.

#	Possible sites	Address	Tool Rank	Survey Rank	Venue
1	Cornell Cooperative Extension	615 Willow Avenue, Ithaca	83	6.32	Education
2	Seneca St. Parking Garage	215 N. Tioga Street, Ithaca	78	8.95	Multi-use Parking
3	Sciencenter	601 1st Street, Ithaca	78	6.33	Attraction
4	Ithaca College	953 Danby Road, Ithaca	76	9.00	Education
5	Shops at Ithaca Mall	40 Catherwood Road, Lansing	73	8.00	Retail
6	Dryden Road Garage	120 Dryden Road, Ithaca	73	N/A	Multi-use Parking
7	Green Street Garage	120-126 E. Green Street, Ithaca	72	9.00	Multi-use Parking
8	GreenStar Cooperative Market	301 W. Court Street, Ithaca	69	7.89	Retail
9	Taughannock Falls State Park	1740 Taughannock Blvd, Trumansburg	68	7.89	Parks/Recreation
10	All Pro Cayuga Street Garage	235 S. Cayuga Street, Ithaca	67	9.00	Multi-use Parking
11	Ithaca Shopping Plaza	222 Elmira Road, Ithaca	65	7.29	Retail
12	East Hill Plaza	327 Pine Tree Road, Ithaca	65	7.53	Retail
13	Tompkins County Visitor Bureau	904 E. Shore Drive, Ithaca	63	N/A	Attraction
14	Freeville Public Lot	46 Main Street, Freeville	62	7.18	Multi-use Parking
15	Ithaca Farmers Market	545 3rd Street, Ithaca	60	6.78	Retail
16	Tompkins-Cortland Com. College	170 North Street, Dryden	56	9.28	Education
17	Cass Park Rink and Pool	701 Taughannock Blvd, Ithaca	56	6.74	Parks/Recreation
18	Buttermilk Falls State Park	112 E. Buttermilk Falls Road, Ithaca	55	6.30	Parks/Recreation
19	Stewart Park	1 James L Gibbs Drive, Ithaca	51	6.89	Parks/Recreation
20	Ithaca-Tompkins Regional Airport	1 Culligan Drive, Ithaca	48	7.95	Transit hub

Table 3. Ranking of Potential Sites for EV Charging Stations Based on Site Suitability Criteria Tool



Figure 3. Existing and Highly Suitable New Sites for EV Chargers in Tompkins County





### Cornell Cooperative Extension Association of Tompkins County

The Cornell Cooperative Extension Association of Tompkins County has existed since 1913 and provides local resident with information and education. Their facility (Figure 4) is also available for public or private meetings and programs. A major construction project is planned for 2017. This presents a great opportunity to incorporate an EV charging station into their plans.



Figure 4: Cornell Cooperative Extension Association of Tompkins County Location in Ithaca, NY

This location scored very high for overall suitability for EV charger installations (Figure 5) because it experiences consistent use year-round with typical parking periods lasting 2-4 hours. The parking lot, which is owned by the Cornell Cooperative Extension Association has spaces for about 35 vehicles and there will be a structure in their new addition going in next year (2017) to which the charging station could be mounted. It is close enough to Route 13 so other EV drivers may also find it to be a convenient location to charge. There were no concerns raised about the electrical infrastructure and the capability to support the charging station load.



#### Figure 5: Cornell Cooperative Extension Association of Tompkins County Site Suitability Score

The marketing and image suitability factor was slightly lower at the Cornell Cooperative Extension Association is because it would have less exposure to the general public. This is because it is not directly on a main road and doesn't host large events that draw a big crowd. Otherwise, this appears to be a very good location for installing a charging station.



### Seneca Street Parking Garage

The City of Ithaca's Seneca Street Parking Garage located at 215 North Tioga Street is open 24 hours daily and is a short walk from the Ithaca Commons with its many shops and restaurants (Figure 6). Other destinations near this garage include: Town Hall, Hilton Garden Inn (25% of this garage is reserved for the Hotel), and TC3 Ithaca Extension Center. This garage has a \$7 weekday maximum fee for visitors and free weekend parking, along with some long term permit parking.



Figure 6: Seneca Street Parking Garage in Ithaca, NY

Besides its convenience to downtown destinations, this parking garage has several attributes that make it a good location for a new charging station (Figure 7). This location is also used special events throughout the year that take place in downtown Ithaca. There is sufficient electrical capacity to support the installation of EV chargers and a charger could be wall mounted with convenient access to electricity. This is a covered garage that would protect the charging station from inclement weather.





A quarter of the parking garage is reserved for hotel guests, so the average parking duration is between 4 and 8 hours, although this varies depending on the purpose of their visit. EVs parked here for a long time may pose an issue if an EV was left plugged in, making the charger unavailable to other users (although this could be managed by increasing costs for long connections). Additionally, the use of this garage comes with a small fee which might deter EVS drivers just looking for a chance, but would likely not deter other users since it is prime parking for the downtown area.





### Other Parking Garages in the City of Ithaca

Several other parking garages in the City of Ithaca (Figure 8) have good site suitability for a new charging station because they share similar characteristics as the Seneca Street Parking Garage. The Green Street Parking Garage and the All-Pro managed Cayuga Street Garage are near Ithaca Commons with its many shops and restaurants. The new Marriot Hotel will utilize a quarter of the Green Street Parking Garage once it is completed. The Dryden Street Parking Garage in Collegetown is predominantly used by Cornell students and staff, but there are also several restaurants in the area along with Cornell's Schwartz Center for the Performing Arts. All of these garages have daily parking fees of \$1 per hour and offer permits for long term parking.



#### Figure 8: Parking Garage Locations in Ithaca, NY

All of these parking garages have sufficient and readily accessible electrical capacity to support charging stations, are well-lit for driver safety, and provide protection from the weather. A fee to access the garage and use the charging stations should not deter EV drivers already coming to these locations, but it might not attract EV drivers passing through that just need a charge. The biggest challenge with these garages will likely be managing the station so it is not occupied too long after an EV has finished charging. A networked station that charges higher fees for use after an initial charging period would encourage those parking for longer to move their vehicle after it is charged. However, it must be enforced that EVs are plugged into the station when parked there, otherwise an EV might unplug to avoid higher fees, but remain parked in that space. The Cayuga Street Parking Garage is managed and leased by All Pro Parking which might complicate the installation process, but due to their relationship with the City this is likely not a big concern.



### Sciencenter

The Sciencenter is a hands-on, children's science museum located in downtown Ithaca (Figure 9). It was founded in 1983 and has a number of educational programs with over 250 exhibits. The museum is typically open from 10 am to 5 pm, except for Sundays (12pm – 5pm) and Monday (closed). Visitors typically stay for 2-4 hours.



Figure 9: Sciencenter Location in Ithaca, NY

This location scored very high for overall suitability for an EV charger installation (Figure 10) because it owns a large parking lot (over 50 vehicles) and experiences consistent year-round use. Its proximity to Route 13 also makes this a convenient location for other EV drivers to stop and charge. The existing electrical infrastructure appears to have sufficient capacity and should accommodate the additional charging station load without major electrical upgrades. Site operators would be willing to provide this service free of charge and could serve public and employee EVs.





The only complication at this location is the inability to mount a charger on an existing structure and the requirement of a pedestal which would slightly increase installation costs. The parking lot is also not covered and experiences some fluctuation in use during the week (limited hours or closed some days).





### Ithaca College

Ithaca College (Figure 11) has been active since the early 1900s and provides education combining theory and performance. The college is currently attended by over 6,600 students and has sporting events and performances that attract the general public. Over 1,700 staff are currently employed by the college as well, adding to the transportation load. The selected location analyzed is the current lot "U" near the "Campus Center" which is scheduled to be reconfigured in May 2017.



Figure 11: Ithaca College Location in Ithaca, NY

Ithaca College offers a good opportunity for EV charging by faculty, staff, and students. It was predicted to be a good location for a new charging station installation by the Tool (Figure 12), because typical parking durations are 2-4 hours in the profiled lot. It is a fairly large parking lot and is used for over 100 special events throughout the year which increase the overall traffic flow. Electrical capacity is not a concern and the spaces would be in a preferred parking space that is paved and lit at night.



#### Figure 12: Ithaca College Site Suitability Score

One slight drawback of this site is that EV users would be required to pay a fee to access the lot where the charger would be placed and it is a slight distance from highly traveled roadways which would not be good for serving EV drivers that are not visiting the College. Also, a stand-alone pedestal charger with a long electrical run would be required which would increase installation costs.



### Shops at Ithaca Mall

The Shops at Ithaca Mall, previously known as Pyramid Mall Ithaca, is located north of Ithaca at the intersection of NY Route 13 and N Triphammer Road (Figure 13). The mall's largest tenants currently include Target, Bon Ton, Best Buy, Dick's Sporting Goods, Regal Theater, and a couple of fitness centers.



Figure 13: Shops at Ithaca Mall Location in Ithaca, NY

This location has a lot of parking and visitors typically spend 1-2 hours at this location during which time an EV could receive a meaningful charge. The malls proximity to a major roadway also presents the opportunity for EV drivers to charge while in route to another location. Contributing to the mall's good overall site suitability score (Figure 14) are several retail options being available in one location, including a theater, would serve a broad audience of drivers, some of which likely have EVs. They stated the charging station can be mounted on an existing structure near a power supply.



#### Figure 14: Shops at Ithaca Mall Site Suitability Score

The Ithaca Mall's parking is reported to be typically fully utilized which could limit the potential for spare spaces dedicated to EVs. This location also does not host any special events, but is visited by many people. A few parking spaces are next to the Mall's exterior wall, but these are not preferred parking locations. There currently is a public charging station adjacent to Ithaca Mall at BJ's Wholesale Club.





### GreenStar Cooperative Market

The GreenStar Cooperative Market is located near downtown Ithaca where NY Routes 13 and 79 intersect (Figure 15). GreenStar is a natural foods and fair trade market that prioritizes the purchase of local and organic goods. This site is one of three GreenStar locations throughout Ithaca.



Figure 15: GreenStar Cooperative Market Location in Ithaca, NY

GreenStar is ideally located in downtown Ithaca along major state roads. It caters to environmentally conscious people that are also more likely to drive EVs. It was stated that the charging station could be located on a building and the electrical panel was near this location which resulted in a good suitability score (Figure 16). However, it was not clear from a satellite image where a parking spot is currently marked out adjacent to the building. There would be no charge to park in this lot or use the charging station.



#### Figure 16: GreenStar Cooperative Market Suitability Score

Parking lot capacity is an issue since it is often full and would be hard to allocate 2 spaces for EV charging. Customers also typically stay less than 2 hours which doesn't provide a significant time to charge. If the station must be placed out in the parking lot, costs would increase and the suitability score would likely cause it to fall out of the top options. Another installation option is with nearby businesses that do have parking adjacent to their building (Finger Lakes Electrical, Tompkins Trust, and Alternatives Federal Credit Union) and might be an alternative host for an EV charging station in this Ithaca neighborhood.







### Taughannock Falls State Park

Taughannock Falls State Park's namesake waterfall is one of the outstanding natural attractions of the Northeast. Gorge and rim trails offer spectacular views from above the falls and from below at the end of the gorge trail. Campsites and cabins overlook Cayuga Lake, with marina, boat launch and beach nearby. A multi-use trail--hiking, cross-country skiing--winds past sledding slopes and natural skating ponds.



Figure 17: Taughannock Falls State Park Location in Ithaca, NY

Taughannock Falls State Park has many visitors each year that would see the EV charging station and many visitors enjoy nature which might align with a desire to own an EV. A visitor's typical length of stay between 2 and 4 hours, along with the ability to mount an EV charging station on the side of an existing building to lower costs, resulted in a good suitability score (Figure 18).



#### Figure 18: Taughannock Falls State Park Site Suitability Score

The limitations of this site for being a really good site for installing a new charging station are its limited hours and cost to access the parking area. Any visitor with an EV coming to the park would come during open hours and plan on paying the access fee, so this would not deter them, but it would not be an ideal location for most EV drivers transiting through Tompkins County. This park also experiences a lot of fluctuation in use during days of the week and seasons of the year, so that might not facilitate regular charging use. This might frustrate EV drivers on very popular days if they find the chargers occupied by others on that day even though the charger's profile shows a history of very minimal use.







### Other Sites Investigated for New Charging Stations in Tompkins County

A number of other locations also completed this Tool but did not score favorably due to a number of factors. The sites that were not selected as ideal candidates for new EV charging station installations include:

- The **East Hill Plaza** at 327 Pine Tree Road in Ithaca (Suitability Score of 65) would have a relatively high cost to install a charger because it would require a pedestal mount and a longer electrical run. It is also not known if there is sufficient electrical capacity for a charger at this location and major upgrades might be needed. Additionally, it was reported that most vehicles only park 1-2 hours which may limit the potential value of a charge.
- The **Ithaca Shopping Plaza** at 222 Elmira Road in Ithaca (Suitability Score of 65) has retail space and fast food restaurants along Route 13 south of the Ithaca City center with tenants that include Five Guys, Northside Wine and Spirits, Hobby Lobby, T.J. Max, Five Below, Staples, and Petsmart. Unfortunately, Route 13 splits the shopping plaza into two sections that would not be convenient to walk between for an EV driver that had to park at one charging station location. Some visitors, particularly those at the fast food restaurants, might stay for less than one hour which is not enough time for a meaningful charge.
- The **Tompkins County Chamber of Commerce/Visitor Bureau** at 904 E. Shore Drive in Ithaca (Suitability Score of 63) sees heavy fluctuation during the week and is not used for any special event parking. Overall, this smaller parking lot is only about 50% full on a regular basis. The charging station installation will require a pedestal mount and longer electrical run that increases costs.
- The **Freeville Public Lot** at 46 Main Street (Suitability Score of 62) is next to the U.S. Post office and across the street from an elementary school and church. The lot is relatively small (10-25 cars) and may not have existing infrastructure to support the installation of chargers. This location also sees varying usage depending on the day of the week with average use only about 50%.
- The **Ithaca Farmers Market** at 545 3<sup>rd</sup> Street in Ithaca (Suitability Score of 60) is a seasonal use area that would likely see very little use in off seasons and non-market days which limits its potential. When there is activity, this parking lot is very active and likely attracts EV owners, but they wouldn't stay parked for a very long time. EV drivers not going to the market would unlikely park in this lot for a charge.
- A charging station at **Tompkins-Cortland Community College** at 170 North Street in Dryden (Suitability Score of 56) would likely be regularly used by faculty, staff, or visitors and would complement the large solar power installation on campus. Unfortunately, the design of the parking lot does not support a cost effective installation. There are no parking spaces adjacent to the campus buildings, so the EV charging station must be a pedestal mount out in the parking lot. The wiring run from the electrical panel to the charging station would be long and require larger electrical conductors and cutting through pavement. The charger's placement would also likely interfere with snow plowing during the winter.
- **Cass Park Rink and Pool** at 701 Taughannock Boulevard in Ithaca (Suitability Score of 55) also has some geographical features that might cause issues for a cost-effective charging station installation. The area is prone to flooding and a long electrical run would be required. The duration of stay for visitors here is typically shorter than needed for an ideal charge and the use of the park varies significantly from day to day and season to season.



- **Buttermilk Falls State Park** at 112 East Buttermilk Falls Road in Ithaca (Suitability Score of 55) is another park and recreational area in Ithaca that draws a large crowd which include environmentally-friendly people that tend to purchase EVs. While the required electrical run is not as long as some other sites, the fee to access the park, limited hours of operation, and significant fluctuation in use might not result in a worthwhile investment to support EV use in the county.
- Stewart Park (Suitability Score of 51) experiences heavy seasonal fluctuation and a charging station would be unlikely to experience consistent use. The proposed lot also has the potential to flood and existing infrastructure may not be suitable for additional load that an EV charger would add. The installation would be a pedestal mount in the parking area which is more costly. Visitors also typically stay for shorter periods of time (1 2 hours) which might not provide a significant charge.
- The **Ithaca-Tompkins Regional Airport** (Suitability Score of 48) has limited potential for installing AC Level 2 chargers due mostly to the lack of electrical capacity and extensive electrical work needed to install a charger. Users also typically park here for long periods of time that may limit the number of EVs that could cycle through a charging station. Additionally, the charger would be located in a pay lot and the use of the charger would also cost drivers. AC Level 1 charging stations are more appropriate for this application and there is likely adequate power to support a few of these.







### Appendix A: Sample Site Suitability Criteria Tool

Typical Responses of a Very Good Site for an EV Charging Station

Overall Site Suitability Score		Components	Contributing to the Overa	Il Site Suitability Score	
Good	General Site Suitability	Value to EV Drivers (expected use)	Marketing & Image	Installation Cost	s Equipment Costs
E-i-				(low cost)	(low cost)
Fair	Fair	Fair	Fair	Average	Average
Poor	Poor	Poor	Poor	Worse (high cost)	Worse (high cost)
Electric Vehicle (EV) Charging	Station Site Suitability Crit	teria Tool		(ingli cost) Vers	sion Date: 9/2/2016
Site Name					
Address:					
Site Suitability Factor Importance					
1. How important are the following	ng factors to the site owner	for an EV charging	station installation?		
(1A) Likely to be used by Current EV	Drivers: 🔿 Not at All Important	O Slightly Importa	nt O Important	Very Important	O Most Important
(1B) Marketing for Potential EV Buye	rs: O Not at All Important	Slightly Importa	nt O Important	🔿 Very Important	O Most Important
(1C) Positive Image for the Organizat	ion: O Not at All Important	Slightly Importa	nt 💿 Important	O Very Important	O Most Important
(1D) Purchase and Installation Cost:	Not at All Important	Slightly Importa	nt 🔿 Important	Very Important	O Most Important
Site Ownership and Zoning					
2. Do you own or lease the parl	cing lot where the EV char	ging station will l	be installed?		
(2)	) Lease	i	Owning the parking lo	ot simplifies the EV charging static	n installation process
3. Do vou own or lease the buil	ding where electricity will	be drawn for the	EV charging station?		
(3)					
Own     Own	) Lease		Owning the building and paying th	e electricity bill simplifies the EV c	harging station installation process
4. What is the predominant lan	d use for the EV charging	station site?			
(4) O Residential O Busin	ness 🔿 Industrial		nstalling a public EV charging stati	on at an institution (such as a univ	ersity or medical campus) should be
Institutional     O Gove	ernment O Other			allowed in all jurisdictions	
Site Location and Surounding En	vironment				
5. Which venue best describes t	he proposed EV charging	station location?			
O Business/Office    Educat	ional Services 🔿 Hotel		ligher education campuses employ	staff that are likely EV drivers and	d host events that typically draw large
Medical Facility     Park/Re	ecreational Facility O Multi-dwellin	g Unit cn	owds. Campuses with multiple park	ing lots that have different purpos	es should prioritize EV spaces for staff
Transportation Hub     O Munici     O Retail Outlet     O Enterta	pal Lot or Garage On-street Par	King O Other		or visitors (not students)	
6. How long do drivers typically	y park their vehicles at thi	s location?			
C Less than 1 hour C 1 - 2 h	ours <ul> <li>2 - 4 hours</li> </ul>		This is a good duration to charge fo	or most EV drivers: with PHEVs like	elv obtaining a full charge and BEVs
O 4 - 8 hours O More t	han 8 hours		able to	get a substantial charge away fro	m home
7. Is this location used for any s	special event parking?				
(7) (7) (7) (7) (7) (7) (7) (7)	) No		Special events provide significant e charging, but the eve	exposure to the charging station a nts might attract more EVs than a	nd may draw EV drivers interested in railable charging ports
7B. Approximately how many s	pecial events per vear?	More than 100			
8. How far is this location from	a busy road used to trave	el between cities	(typically an interstate, U	S highway, or State route	.)?
<ul> <li>(8)</li> <li>On a State Road</li> <li>○ 0.1</li> </ul>	- 0.5 miles	i	This location would likely be year	convenient for and provide good	exposure to many EV drivers traveling
0 1 - 2 miles 0 2 - 1	5 miles O More than 5 m	iles	The location hourd incory be very (	between cities	speciale to many Ly unversitiaveling





### Typical Responses of a Very Good Site for an EV Charging Station (con't)

Expec	ted EV Charg	ging Station Use	rs and Accessibil	ity		
). Wh	ich potentia	l EV drivers are	expected to use	the charging sta	tion?	
(3)	Employees	O Visitors	O General Public		Í	Employees park at the same location every workday and may be encouraged to purchase an EV and become a regular user of the charging station
LO. W	ould an EV d	river require a	permit, sticker,	or card to access	the p	arking lot where the charging station is located?
	○ Yes	• N	0			Visitors or the general public will use a station more when there aren't additional restrictions, but it might also allow non-employees to use stations designed for only their use
11. Is	there a fee t	o access the par	king lot where	the charging stat	ion wo	ould be located or would there be a fee to use the charging station?
(11)	<ul> <li>Only a fee to a</li> <li>Fee to access the</li> </ul>	ccess the parking lot he parking lot AND to us	Only a fee to use t se the charging station	he charging station No fees for access or	i r use	Visitors or the general public will use a station more when there are no costs to access or use the station and the host might find that the benefit of attracting EV drivers is more valuable than collecting fees
12. W	ould the cha	rging station be	located in a pa	rking lot or gara	ge wit	h limited hours of operation?
(12)	() Yes	• N	0		i	Visitors or the general public will use a station more when there aren't additional restrictions to access the station
Parkin	ig Lot or Gara	age Characteristi	cs			
13. Ho	ow many par	king spaces are	in the lot or ga	rage?		
(13)	C Fewer than 10	O 10 - 25	O 25 - 50	More than 50	i	Larger parking lots or garages should have less concerns about reserving 1 or 2 spaces for EV charging and have a large enough population of cars to ensure some would be EVs
14. Ty	pically, how	full is the park	ing lot or garage	e?		
(14)	0 25%	○ 50%	• 75%	O 100%	i	Less than capacity occupancy indicates that conventional vehicles should still have places to park and not occupy the charging spaces, while still being a popular place for drivers to park
15. Is	there fluctua	ation in parking	g lot use by seas	on?		
(15)	Minimal Fluctu	ation 🔿 Som	e Fluctuation C	A lot of Fluctuation	i	Consistent use of the parking lot or garage will likely lead to regular charging station users and good exposure to others
16. Is	there fluctua	ation in parking	g lot use by day	of the week?		
(16)	Minimal Fluctu	ation 🔿 Som	e Fluctuation C	A lot of Fluctuation	İ	Consistent use of the parking lot or garage will likely lead to regular charging station users and good exposure to others
17. W	ould the EV o	charging station	1 be mounted or	1 the wall of a bu	ilding	where the cord could run to the EV and not interfere with a pedestrian walkway
- (17)	• Yes	O N	0		i	Installation costs can be significantly lower if the EV charging station can be mounted on a building and no trenching in a parking lot is required
18. Is	the parking	lot paved?				
- (18)	⊖ Yes	•	lo		i	Trenching and repairing an unpaved parking lot for a charging station placed away from a building is easier and less costly
19. Is	the parking	lot prone to flo	oding or other e	vents that might	dama	ge a charging station or plugged-in EV?
(19)	() Yes	۵ ۱	lo		i	While all areas are susceptible to an occasional severe weather event, as long as this parking lot is not especially prone to them, the station should hold up well and be used by EV drivers
20. W	ould the EV	charging statio	n be located in a	covered parking	g spac	e?
(20)	• Yes	0	lo		i	Although not necessary, shading and protection from the weather is more desirable for EV drivers and may provide better protection for the charging station
21. W	ould the EV	charging station	n need to be pla	ced where it wou	ıld obs	struct plowing or in a location where snow is stored in the winter?
(21)	⊖ Yes	•	lo		i	Proper station placement can help reduce potential damage, maintenance requirements, and ensure access for EV drivers in all weather conditions
22. W	ould the EV	charging station	n be in a preferr	ed parking space	e?	
(22)	• Yes	0 M	lo		i	EV charging stations in preferred parking spaces increase exposure and have an added benefit to EV drivers, but the installation costs may increase if electricity has to be run a longer distance





#### Typical Responses of a Very Good Site for an EV Charging Station (con't)

• Yes	⊖ No		<u>i</u>	A lit parking lot is safer for EV drivers to use at night and there may be potential for using the same electric
	0.16			source powering the lights for AC Level 1 charging
Would the EV cha	arging station a	and parking sp	ace be visible from th	ne road or entrance to the parking lot or garage?
• Yes	⊖ No		i	An easily visible charging station is valuable by increasing exposure to all drivers and helps EV drivers locate it easily when they need a charge, however it is still good practice to identify the station with signag
sting Electrical Infra	astructure			
Does the existing	electrical pane	l have 4 extra s	slots and 80 amps of	available capacity for a dual port Level 2 charging station?
Yes	⊖ No	01	Don't Know	Breakers, conduit, and wire will all be needed for the installation, but costs will be lower without needing an electrical panel upgrades
How recently has	major electric	al work been p	erformed at this loca	ation?
26)			i	The eviction electrical evidem should be up to code and no additional electrical infrastructure cost should
Within 10 years	Within 20 years (	) More than 20 years a	of the building closes	The existing electrical system should be up to code and no additional electrical numasitucture cost should required when adding the charging station
Within 10 years     Within 10 years     Mow far is the ele 27)     Fewer than 10 feet	Ctrical panel fr	) More than 20 years a rom the point o	of the building closess	t to where the charging station would be located? Short electrical runs require less materials and are easier to install which results in low costs
Within 10 years     Within 10 years     Within 10 years     Orever than 10 feet     Charging Station S	Ctrical panel fr	<ul> <li>More than 20 years a</li> <li>com the point o</li> <li>50 - 100 feet</li> </ul>	of the building closes	t to where the charging station would be located? Short electrical runs require less materials and are easier to install which results in low costs
Within 10 years     Within 10 years     Within 10 years     Within 10 years     Charging Station S     most common charg     ging time. This is ap     el 1 charging station     ted for 6 hours or lon     yever, AC Level 1 char     elp manage the static	Ctrical panel fr Ctrical panel fr 0 10 - 50 feet election ing station type fa propriate when E that operates on 1 ger at a time. AC 1 rging stations are on use.	om the point of 50 - 100 feet 50 - 100 feet	of the building closes More than 100 feet tings is AC Level 2, which 1-4 hours. Most EVs par- ides 2-5 miles of added e tations are less expensiv m't offer networked feature	The existing electrical system should be up to cover and no additional electrical numerication and the dots should required when adding the charging station t to where the charging station would be located? Short electrical runs require less materials and are easier to install which results in low costs operates on 240 VAC and will result in 10 to 20 miles of added electrical range per hour of ked for longer than 4 hours would occupy the station longer than they need to charge. An AC electrical range per hour of charging might be more appropriate for settings where EVs are re and require less than half of the required electrical demand of AC Level 2 charging stations.
Within 10 years     Within 10 years     Within 10 years     Within 10 years     Charging Station S     most common charg     rging time. This is app     el 1 charging station     ted for 6 hours or lon     vever, AC Level 1 char     elp manage the statio     Which EV chargin	Ctrical panel fr Ctrical panel fr O 10 - 50 feet election ing station type for propriate when ET that operates on 1 ger at a time. AC 1 rging stations are on use. ng station type	om the point of 50 - 100 feet 50 - 100 feet	of the building closes of the building closes	to where the charging station would be located? Short electrical runs required when adding the charging station to where the charging station would be located? Short electrical runs require less materials and are easier to install which results in low costs operates on 240 VAC and will result in 10 to 20 miles of added electrical range per hour of ked for longer than 4 hours would occupy the station longer than they need to charge. An AC electrical range per hour of charging might be more appropriate for settings where EVs are re and require less than half of the required electrical demand of AC Level 2 charging stations. ures such as energy monitoring, payment, reservations, host notifications, and other useful too
Within 10 years     Within 10 years     Within 10 years     Within 10 years     Within 10 feet     Charging Station S     most common charg     gying time. This is app     'I charging station     'ed for 6 hours or long     ever, AC Level I char     phanage the static     Which EV chargin     28)	Ctrical panel fr C 10 - 50 feet election ing station type fo propriate when ET that operates on I ger at a time. AC I ging stations are on use. ng station type	More than 20 years a rom the point of 50 - 100 feet or commercial sett Vs can charge for 120 VAC and prov Level 1 charging s very basic and do would be insta avel 1	of the building closess of the building close	The existing electrical system should be up to code and no additional electrical numastructure cost should required when adding the charging station t to where the charging station would be located? Short electrical runs require less materials and are easier to install which results in low costs operates on 240 VAC and will result in 10 to 20 miles of added electrical range per hour of ked for longer than 4 hours would occupy the station longer than they need to charge. An AC electrical range per hour of charging might be more appropriate for settings where EVs are and require less than half of the required electrical demand of AC Level 2 charging stations. AC Level 1 charging stations, which operate on 120 VAC and result in 2 to 5 miles of added electrical range per hour of charging the one of the solutions.

Mounted on an Existing Structure
 Stand-alone Pedestal
 Mounting the charging station on an existing structure can lower the purchase and installation costs, but the
 structure must be sturdy enough and located in a convenient location close to the parking space

30. Would the charging station be networked and connected to a charging management company's software platform?
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used for collecting data on station energy use which have an initial cost, but no annual networking fee.







Overall Site Suitability Good Fair Poor Electric Vehicle (EV) Ch	y Score General Sit Good Fair Poor narging Station Site	ie Suitability Goo Fa 9 Poo Suitability Criter	Components Value to EV Drivers (expected use) d ir or	Contributing to th Marketing Good Fair Poor	he Overall Site Suit & Image (low c Avera 4 (high c	tability Score Installation Costs tter ost) age orse ost) Version	Equipment Costs Better (low cost) Average Worse (high cost)
Site Name:							
Site Suitebility Easter Im	nortanoo					—	
1. How important are the	following factors to a	the site owner for	r an EV charging	station installation	n?		
(1A) Likely to be used by Cu	rrent EV Drivers: O No	t at All Important	O Slightly Importar	nt 🔿 Impor	tant 🖲 Ve	ry Important	O Most Important
	FUR ONE	at All Inconduct					© Mart Terraturt
(1C)	-	at An important	<ul> <li>Siigituy importa</li> </ul>			ay anportant	
Positive Image for the (	Organization: O No	t at All Important	Slightly Importa	nt 🖲 Impo	rtant O V	ery Important	<ul> <li>Most Important</li> </ul>
Purchase and Installation	on Cost: O Not	at All Important	O Slightly Importa	nt 🔿 Impo	rtant 🖲 V	ery Important	<ul> <li>Most Important</li> </ul>
2. Do you own or lease (2) Own 3. Do you own or lease (3) Own	the parking lot when © Lease the building where of © Lease	re the EV chargin	e drawn for the	be installed? A leased parking lot will EV charging stat A leased building o	require an agreement wi ion? r sub metered electricity complicatio	th the owner which adds will require an agreemen ns but is still feasible	complications but is still feasible nt with the owner which adds
4. What is the predomi	inant land use for th	e EV charging st	ation site?				
Residential     Institutional	O Business O Government	<ul> <li>Industrial</li> <li>Other</li> </ul>	Í	Other zoned districts	, such as historic or spec cha	ial use, may require spe arging station	cial permission to install an EV
Site Location and Surou	nding Environment	d FV charging st	ation location?				
(5) Business/Office Medical Facility Transportation Hub Retail Outlet	Educational Services     Park/Recreational Facility     Municipal Lot or Garage     Entertainment Facility	<ul> <li>Hotel</li> <li>Multi-dwelling L</li> <li>On-street Parkin</li> <li>Restaurant</li> </ul>	i Init g O Other	Most eating experience ertain times during the	ees are shorter than the r day, but if the restaurant for the EV driv	equired time to charge a was around other retail I er to stay parked longer	n EV and would only be used at uusinesses, there could be options
5B. How many individu 6. How long do drivers	ual venues (e.g., stor typically park their	es or businesses	) are within 50 location?	0 feet of this loca	tion?	1 - 5 other	venues
(6) • Less than 1 hour	0 1 - 2 hours	O 2 - 4 hours		This is likely too short of	a charging period to pro	vide value to the EV driv	ver since most AC Level 2 stations
O 4 - 8 hours	O More than 8 hours				provide only 10 miles of	of added electrical range	per hour
7. Is this location used	for any special even	t parking?					
(/) O Yes	No		i	There will be no increas typ	sed exposure of the char ically influenced more b	ging station for special 6 y regular users than occ	events, but charging station use is asional users
8. How far is this locati	ion from a busy road	l used to travel k	etween cities (	typically an inter	state, US highway	, or State route)?	
(8) On a State Road	0.1 - 0.5 miles	O 0.5 - 1 mile		This location would like	ely be significantly less c	onvenient for and have	much less exposure to EV drivers
1 - 2 miles		O More than 5 miles			travelii	ng between cities	

### Typical Responses of a Very Poor Site for an EV Charging Station





Typical Responses of a Very Poor Site for an EV Charging Station (con't)

Funas	ted FV Char	ning Otati	an Haara and Aasaa	oibilit.		
Expec 9. Whi	ied EV Charg ich potentia	ging Static l EV drive	on Users and Acces ers are expected to	use the charging	g station?	
(9)	) Employees	O Visitor	rs 💿 General Pi	ublic 🔿 All	Í	Stations accessible to the general public would likely see the most fluctuation in use and not serve any individual EV drivers on a regular basis
10. Wo	ould an EV d	lriver req	uire a permit, sticl	ker, or card to ac	cess the p	parking lot where the charging station is located?
(10)	• Yes		⊖ No		i	These requirements could hinder station use by visitors or the general public, but could be a valuable way to manage station use by employees
11. Is	there a fee t	o access t	the parking lot wh	ere the charging	station w	ould be located or would there be a fee to use the charging station?
(11)	∩ Only a fee to a	ccess the nark	ring lot Only a fee tr	use the charging station	i	Costs to process and use the station will limit station use by the reneral public, but EV drivers that already use
	<ul> <li>Fee to access t</li> </ul>	he parking lot	AND to use the charging sta	tion O No fees for acc	cess or use	the garage will pay a reasonable cost for using the parking space and getting a charge
12. Wo	ould the cha	rging sta	tion be located in	a parking lot or g	garage wit	th limited hours of operation?
(12)	• Yes		⊖ No		i	Additional restrictions to access the charging station parking space could prevent station use by an EV driver that needs a charge
Parkin	a Lot or Gar	age Chara	acteristics			
13. Ho	ow many par	rking spa	ces are in the lot o	r garage?		
(13)	C Fewer than 10	10	- 25 🔿 25 - 50	O More than 5	50 <b>i</b>	This is a small number of parking spaces for a public lot, which likely means less demand for parking and less likelihood to have EVs looking for a charge unless the demographic aligns well with the typical EV owner
14. Ty	pically, how	full is th	e parking lot or ga	rage?		
(14)	0 25%	○ 50%	0 75%	100%	i	Parking lots that experience full capacity have a greater likelihood that conventional cars would park in charging spaces or become aggravated that charging spaces are empty and taking up valuable space
L5. Is t	there fluctu	ation in p	oarking lot use by s	eason?		
(15)	O Minimal Fluctu	ation	Some Fluctuation	A lot of Fluctuation	i	Seasonal venues that have minimal use during certain months will have more limited exposure to the public and experience inconsistent station use that is hard to manage
16. Is t	there fluctu	ation in 1	parking lot use by o	lay of the week?		
(16)	O Minimal Fluctu	ation	Some Fluctuation	A lot of Fluctuation	i	Parking lots or garages used only on weekends or weekdays will experience inconsistent use which is hard to manage and has less exposure to the public
17. Wo	ould the EV	charging	station be mounte	d on the wall of a	a building	g where the cord could run to the EV and not interfere with a pedestrian walkwa
(17)	() Yes		No		i	Installing an EV charging station out in a parking lot will require trenching and repair, along with a foundation to mount on, which increases the costs
17B. H	low far from	the buil	ding would the cha	arging station be	placed?	100 - 200 feet
18. Is t	the parking	lot paveo	1?			
	Yes		⊖ No		1	Trenching and repairing a paved parking lot for a charging station placed away from a building is more costly
19. Is	the parking	lot pron	e to flooding or oth	er events that mi	ight dama	age a charging station or plugged-in EV?
(19)	• Yes		⊖ No		i	This is a concern for potential damage to the station or vehicles that are charging and may lead to costly repairs or resistance from EV drivers to use this charging station
20. Wa	ould the EV	charging	station be located	in a covered par	king spac	ve?
(20)	() Yes		No		i	Most EV charging stations are installed in open lots and are made to handle outdoor conditions, but it will require some maintenance and care in the winter months to keep the area around the station clear
21. We	ould the EV	charging	station need to be	placed where it	would ob	struct plowing or in a location where snow is stored in the winter?
(21)	• Yes		○ No		i	- Stations placed in the middle of parking lots are more likely to be hit and can be a hindrance to plowing, but you also don't want the station where snow is piled during winter
22 147-	ould the FV	charging	station he in a pro	ferred narking a	nace?	· · ·
(22)	O Yes	citai gilig	No	ierreu parking s	i	To reduce costs, the charging station might be placed along the side or in back of the building, but that be
						Inconvenient to the EV aniver and harder to find if there isn't good signage





#### Tompkins County Plug-in Electric Vehicle Infrastructure Plan: New Charging Station Site Suitability

#### Typical Responses of a Very Poor Site for an EV Charging Station (con't)

23. A	The there light	ts illuminating the par	king lot at night?	
(2.	O Yes	No		<i>i</i> If charging will primarily occur during the day, lights are not essential, but lighting is a nice amenity that encourages charging station use any time the EV drivers need a charge
24. V	Vould the EV	charging station and j	parking space be visible fro	rom the road or entrance to the parking lot or garage?
(2	O Yes	No		If a charging station is not easily visible there is no added exposure to the general public and signage will be needed to direct EV drivers to the location
Exist	ing Electrical I Does the exist	Infrastructure	ve 4 extra slots and 80 am	nps of available canacity for a dual port Level 2 charging station?
(25	5) O Yes	No	🔿 Don't Know	A subpanel may need to be added to accommodate the two additional 240VAC breakers required for a dual port charging station, but increasing electrical capacity would require a costly upgrade from the utility
26. H	low recently	has major electrical w	ork been performed at this	is location?
(26	6) O Within 10 years	O Within 20 years	e than 20 years ago 🛛 🔿 Don't know	w It is possible that some major electrical work may be required to bring the existing electrical system up to code when adding the charging station

#### 27. How far is the electrical panel from the point of the building closest to where the charging station would be located?

	C Fewer than 10 feet	🔿 10 - 50 feet	🔿 50 - 100 feet	More than 100 feet	Long electrical runs require more materials, may need to pass through multiple walls, and could need larger wire or a subpanel that results in high costs
E	V Charging Station Se	lection			

The most common charging station type for commercial settings is AC Level 2, which operates on 240 VAC and will result in 10 to 20 miles of added electrical range per hour of charging time. This is appropriate when EVs can charge for 1-4 hours. Most EVs parked for longer than 4 hours would occupy the station longer than they need to charge. An AC Level 1 charging station that operates on 120 VAC and provides 2-5 miles of added electrical range per hour of charging might be more appropriate for settings where EVs are parked for 6 hours or longer at a time. AC Level 1 charging stations are less expensive and require less than half of the required electrical demand of AC Level 2 charging stations. However, AC Level 1 charging stations are very basic and don't offer networked features such as energy monitoring, payment, reservations, host notifications, and other useful tools to help manage the station use.

#### 28. Which EV charging station type would be installed at this location?

- (20)		
AC Level 2     AC Level 1		AC Level 2 charging stations, which operate on 240 VAC and result in 10 to 20 miles of added electrical range per hour of charging time, are most appropriate when EVs park for 1-4 hours
29. Could the EV charging	station be mounted to an exist	ing structure or be installed as a stand-alone pedestal?
O Mounted on an Existing St	ructure ( ) Stand-alone Pedestal	A charging station pedestal is slightly more expensive to purchase and must be secured to a sturdy concrete foundation which might need to be poured during the installations
30. Would the charging st	ation be networked and conne	cted to a charging management company's software platform?
Networked	O Non-networked	A networked station can lock the connector when not in use, monitor use, impose a fee for charging, notify the owner of issues, and automatically appears on station locator maps, but requires an annual subscription







### Appendix B: Area Maps of Locations Considered for a New Charging Station in Tompkins County City of Ithaca Sites Considered for a New Charging Station



B-1

# Cayuga Heights and Lansing Sites Considered for a New Charging Station







# Northwest Tompkins County Sites Considered for a New Charging Station







# Northeast Tompkins County Sites Considered for a New Charging Station







# Southern Tompkins County Sites Considered for a New Charging Station







### Appendix B: Site Suitability Criteria Tool Responses from Site Owners Cornell Cooperative Extension (83)

<ol> <li>2. Do you own or lease the parking lot where the EV charging station will be installed?</li> <li>3. Do you own or lease the building where electricity will be drawn for the EV charging station?</li> <li>4. What is the predominant land use for the EV charging station site?</li> <li>5. Which venue best describes the proposed EV charging station location?</li> <li>6. How long do drivers typically park their vehicles at this location?</li> <li>7. Is this location used for any special event parking?</li> <li>7B. Approximately how many special events per year?</li> <li>8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?</li> </ol>	Own Own Business Educational Services 2 - 4 hours Yes
<ul> <li>3. Do you own or lease the building where electricity will be drawn for the EV charging station?</li> <li>4. What is the predominant land use for the EV charging station site?</li> <li>5. Which venue best describes the proposed EV charging station location?</li> <li>6. How long do drivers typically park their vehicles at this location?</li> <li>7. Is this location used for any special event parking?</li> <li>7B. Approximately how many special events per year?</li> <li>8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?</li> </ul>	Own Business Educational Services 2 - 4 hours Yes
<ul> <li>4. What is the predominant land use for the EV charging station site?</li> <li>5. Which venue best describes the proposed EV charging station location?</li> <li>6. How long do drivers typically park their vehicles at this location?</li> <li>7. Is this location used for any special event parking?</li> <li>7B. Approximately how many special events per year?</li> <li>8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?</li> </ul>	Business Educational Services 2 - 4 hours Yes
<ul> <li>5. Which venue best describes the proposed EV charging station location?</li> <li>6. How long do drivers typically park their vehicles at this location?</li> <li>7. Is this location used for any special event parking?</li> <li>7B. Approximately how many special events per year?</li> <li>8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?</li> </ul>	Educational Services 2 - 4 hours Yes
<ul> <li>6. How long do drivers typically park their vehicles at this location?</li> <li>7. Is this location used for any special event parking?</li> <li>7B. Approximately how many special events per year?</li> <li>8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?</li> </ul>	2 - 4 hours Yes
<ul> <li>7. Is this location used for any special event parking?</li> <li>7B. Approximately how many special events per year?</li> <li>8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?</li> </ul>	Yes
<ul> <li>7B. Approximately how many special events per year?</li> <li>8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?</li> </ul>	
8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?	25 - 50
	0.1 – 0.5 miles
9. Which potential EV drivers are expected to use the charging station?	All
10. Would an EV driver require a permit, sticker, or card to access the parking lot where the charging station is located?	No
11. Is there a fee to access the parking lot where the charging station would be located or would there be a fee to use the charging station?	Only a fee to use the charging station
12. Would the charging station be located in a parking lot or garage with limited hours of operation?	No
13. How many parking spaces are in the lot or garage?	25 - 50
14. Typically, how full is the parking lot or garage?	75%
15. Is there fluctuation in parking lot use by season?	Minimal fluctuation
16. Is there fluctuation in parking lot use by day of the week?	Minimal fluctuation
17. Would the EV charging station be mounted on the wall of a building where the cord could run to the EV and not interfere with a pedestrian walkway?	Yes
18. Is the parking lot paved?	Yes
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?	No
20. Would the EV charging station be located in a covered parking space?	No
21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?	No
22. Would the EV charging station be in a preferred parking space?	Yes
23. Are there lights illuminating the parking lot at night?	Yes
24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?	Yes
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?	Yes
26. How recently has major electrical work been performed at this location?	Within 10 years
27. How far is the electrical panel from the point of the building closest to where the charging station would be located?	10 - 50 feet
Highest Scoring Answer Lowest Scoring Answer Mid-	range Scoring Answer





### Seneca Street Garage (78)

2. Do you own or lease the parking lot where the EV charging station will be installed?	Own
3. Do you own or lease the building where electricity will be drawn for the EV charging station	? Own
4. What is the predominant land use for the EV charging station site?	Business
5. Which venue best describes the proposed EV charging station location?	Business/Office
6. How long do drivers typically park their vehicles at this location?	4 – 8 hours
7. Is this location used for any special event parking?	Yes
7B. Approximately how many special events per year?	0 - 25
8. How far is this location from a busy road used to travel between cities (typically an interstat US highway, or State route)?	e, On a State Road
9. Which potential EV drivers are expected to use the charging station?	All
10. Would an EV driver require a permit, sticker, or card to access the parking lot where the charging station is located?	Yes
11. Is there a fee to access the parking lot where the charging station would be located or would there be a fee to use the charging station?	Fee for access and use
12. Would the charging station be located in a parking lot or garage with limited hours of operation?	No
13. How many parking spaces are in the lot or garage?	More than 50
14. Typically, how full is the parking lot or garage?	75%
15. Is there fluctuation in parking lot use by season?	Some fluctuation
16. Is there fluctuation in parking lot use by day of the week?	Minimal fluctuation
17. Would the EV charging station be mounted on the wall of a building where the cord could run to the EV and not interfere with a pedestrian walkway?	Yes
18. Is the parking lot paved?	Yes
19. Is the parking lot prone to flooding or other events that might damage a charging station o plugged-in EV?	r No
20. Would the EV charging station be located in a covered parking space?	Yes
21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?	No
22. Would the EV charging station be in a preferred parking space?	Yes
23. Are there lights illuminating the parking lot at night?	Yes
24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?	Yes
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?	Yes
26. How recently has major electrical work been performed at this location?	Within 10 years
27. How far is the electrical panel from the point of the building closest to where the charging station would be located?	More than 100 feet
Highest Scoring Answer Lowest Scoring Answer M	id-range Scoring Answer





# Sciencenter (78)

2. Do you own or lease the parking lot where the	he EV charging station will be inst	alled?		Own
3. Do you own or lease the building where elec	Own			
4. What is the predominant land use for the EV	Business			
5. Which venue best describes the proposed EV	Educational Services			
6. How long do drivers typically park their vehic	cles at this location?			2 - 4 hours
7. Is this location used for any special event par	rking?			Yes
7B. Approximately how many special events pe	er year?			0 - 25
8. How far is this location from a busy road use US highway, or State route)?	d to travel between cities (typica	lly an in	terstate,	On a State Road
9. Which potential EV drivers are expected to u	use the charging station?			All
10. Would an EV driver require a permit, sticke charging station is located?	r, or card to access the parking lo	t where	the	No
11. Is there a fee to access the parking lot when would there be a fee to use the charging statio	re the charging station would be I n?	ocated	or	No fee
12. Would the charging station be located in a operation?	parking lot or garage with limited	hours o	of	No
13. How many parking spaces are in the lot or g	garage?			More than 50
14. Typically, how full is the parking lot or gara		75%		
15. Is there fluctuation in parking lot use by sea	Minimal fluctuation			
16. Is there fluctuation in parking lot use by day	Some fluctuation			
17. Would the EV charging station be mounted run to the EV and not interfere with a pedestria	No			
17B. How far from the building would the char		Less than 50 feet		
18. Is the parking lot paved?	Yes			
19. Is the parking lot prone to flooding or other plugged-in EV?	No			
20. Would the EV charging station be located in		No		
21. Would the EV charging station need to be p location where snow is stored in the winter?	r in a	No		
22. Would the EV charging station be in a prefe		Yes		
23. Are there lights illuminating the parking lot		Yes		
24. Would the EV charging station and parking space be visible from the road or entrance to the				Yes
25. Does the existing electrical panel have 4 existing	tra slots and 80 amps of available	capacit	y for a	
dual port Level 2 charging station?				Tes
26. How recently has major electrical work bee	en performed at this location?			Within 10 years
27. How far is the electrical panel from the poin station would be located?	nt of the building closest to where	e the ch	arging	10 - 50 feet
Highest Scoring Answer         Lowest Scoring Answer         Mid-r				ange Scoring Answer





# Ithaca College (76)

2. Do you own or lease the parking lot where the EV charging station w	ill be ins	talled?		Own
3. Do you own or lease the building where electricity will be drawn for t	Own			
4. What is the predominant land use for the EV charging station site?	Institutional			
5. Which venue best describes the proposed EV charging station location	Educational Services			
6. How long do drivers typically park their vehicles at this location?				2 - 4 hours
7. Is this location used for any special event parking?				Yes
7B. Approximately how many special events per year?				More than 100
8. How far is this location from a busy road used to travel between citie US highway, or State route)?	s (typica	illy an in	terstate,	0.1 – 0.5 miles
9. Which potential EV drivers are expected to use the charging station?				All
10. Would an EV driver require a permit, sticker, or card to access the p charging station is located?	arking lo	ot where	e the	No
11. Is there a fee to access the parking lot where the charging station w would there be a fee to use the charging station?	ould be	located	or	Only a fee to access the parking lot
12. Would the charging station be located in a parking lot or garage wit operation?	h limiteo	d hours	of	No
13. How many parking spaces are in the lot or garage?				More than 50
14. Typically, how full is the parking lot or garage?	75%			
15. Is there fluctuation in parking lot use by season?	Some fluctuation			
16. Is there fluctuation in parking lot use by day of the week?	Some fluctuation			
17. Would the EV charging station be mounted on the wall of a building run to the EV and not interfere with a pedestrian walkway?	No			
17B. How far from the building would the charging station be placed?	50 – 100 feet			
18. Is the parking lot paved?	Yes			
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?				No
20. Would the EV charging station be located in a covered parking space		No		
21. Would the EV charging station need to be placed where it would ob location where snow is stored in the winter?	or in a	No		
22. Would the EV charging station be in a preferred parking space?				Yes
23. Are there lights illuminating the parking lot at night?				Yes
24. Would the EV charging station and parking space be visible from the parking lot or garage?	e road oi	r entran	ce to the	Yes
25. Does the existing electrical panel have 4 extra slots and 80 amps of dual port Level 2 charging station?	ty for a	Yes		
26. How recently has major electrical work been performed at this loca	tion?			Within 10 years
27. How far is the electrical panel from the point of the building closest station would be located?	to wher	e the ch	arging	More than 100 feet
Highest Scoring Answer Lowest Scoring Answer			Mid-r	ange Scoring Answer





# Shops at Ithaca Mall (73)

2. Do	you own or lease the parking lo	t where	the EV charging station will be ins	talled?		Own
3. Do you own or lease the building where electricity will be drawn for the EV charging station?						Own
4. What is the predominant land use for the EV charging station site?						Business
5. Wh	ich venue best describes the pr	oposed	EV charging station location?			Retail
5B. H	ow many individual venues (e.g.	., stores	or businesses) are within 500 feet	of this lo	ocation?	10+ other venues
6. Ho	w long do drivers typically park	their ve	hicles at this location?			1 - 2 hours
7. ls t	his location used for any special	l event p	parking?			No
8. Ho US hi	w far is this location from a busy ghway, or State route)?	y road u	sed to travel between cities (typica	ally an int	terstate,	On a State Road
9. Wh	ich potential EV drivers are exp	ected to	o use the charging station?			General Public
10. W charg	ould an EV driver require a perr ing station is located?	mit, sticl	ker, or card to access the parking lo	ot where	the	No
11. ls would	there a fee to access the parkin I there be a fee to use the charg	g lot wh ging stat	ere the charging station would be ion?	located	or	No fees for access or use
12. Would the charging station be located in a parking lot or garage with limited hours of operation?						No
13. How many parking spaces are in the lot or garage?						More than 50
14. Typically, how full is the parking lot or garage?						50%
15. Is there fluctuation in parking lot use by season?					Minimal fluctuation	
16. Is	there fluctuation in parking lot	use by c	lay of the week?			Some fluctuation
17. W run to	ould the EV charging station be the EV and not interfere with a	mounte pedest	ed on the wall of a building where rian walkway?	the cord	could	Yes
18. Is	the parking lot paved?					Yes
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?				No		
20. Would the EV charging station be located in a covered parking space?					No	
21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?					r in a	No
22. Would the EV charging station be in a preferred parking space?						No
23. Aı	e there lights illuminating the p	arking l	ot at night?			Yes
24. W parkir	ould the EV charging station an ng lot or garage?	d parkin	ng space be visible from the road o	r entrano	ce to the	No
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?				y for a	Don't know	
26. H	ow recently has major electrical	work b	een performed at this location?			Within 10 years
27. Ho statio	ow far is the electrical panel from n would be located?	m the p	oint of the building closest to when	e the ch	arging	Fewer than 10 feet
Highest Scoring Answer     Lowest Scoring Answer     Mid-range				ange Scoring Answer		





# Dryden Road Garage (73)

2. Do you own or lease the parking lot where the EV charging station will be installed?	Own
3. Do you own or lease the building where electricity will be drawn for the EV charging station?	Own
4. What is the predominant land use for the EV charging station site?	Business
5. Which venue best describes the proposed EV charging station location?	Municipal Garage
5B. How many individual venues (e.g., stores or businesses) are within 500 feet of this location?	10+ other venues
6. How long do drivers typically park their vehicles at this location?	4 – 8 hours
7. Is this location used for any special event parking?	Yes
7B. Approximately how many special events per year?	0 - 25
8. How far is this location from a busy road used to travel between cities (typically an interstate, US highway, or State route)?	0.1 – 0.5 miles
9. Which potential EV drivers are expected to use the charging station?	All
10. Would an EV driver require a permit, sticker, or card to access the parking lot where the charging station is located?	Yes
11. Is there a fee to access the parking lot where the charging station would be located or would there be a fee to use the charging station?	Fee for access and use
12. Would the charging station be located in a parking lot or garage with limited hours of operation?	No
13. How many parking spaces are in the lot or garage?	More than 50
14. Typically, how full is the parking lot or garage?	100%
15. Is there fluctuation in parking lot use by season?	Some fluctuation
16. Is there fluctuation in parking lot use by day of the week?	Minimal fluctuation
17. Would the EV charging station be mounted on the wall of a building where the cord could run to the EV and not interfere with a pedestrian walkway?	Yes
18. Is the parking lot paved?	Yes
10. Is the parking let properto fleeding or other events that might damage a charging station or	
plugged-in EV?	No
<ul><li>20. Would the EV charging station be located in a covered parking space?</li></ul>	No Yes
<ul> <li>20. Would the EV charging station be located in a covered parking space?</li> <li>21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?</li> </ul>	No Yes No
<ul> <li>29. Is the parking for profile to hooding of other events that hight damage a charging station of plugged-in EV?</li> <li>20. Would the EV charging station be located in a covered parking space?</li> <li>21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?</li> <li>22. Would the EV charging station be in a preferred parking space?</li> </ul>	No Yes No Yes
<ul> <li>19. Is the parking for profile to hooding of other events that hight damage a charging station of plugged-in EV?</li> <li>20. Would the EV charging station be located in a covered parking space?</li> <li>21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?</li> <li>22. Would the EV charging station be in a preferred parking space?</li> <li>23. Are there lights illuminating the parking lot at night?</li> </ul>	No Yes No Yes Yes
<ul> <li>19. Is the parking for profile to flooding of other events that hight damage a charging station of plugged-in EV?</li> <li>20. Would the EV charging station be located in a covered parking space?</li> <li>21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?</li> <li>22. Would the EV charging station be in a preferred parking space?</li> <li>23. Are there lights illuminating the parking lot at night?</li> <li>24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?</li> </ul>	No Yes No Yes Yes No
<ul> <li>19. Is the parking for profile to flooding of other events that hight damage a charging station of plugged-in EV?</li> <li>20. Would the EV charging station be located in a covered parking space?</li> <li>21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?</li> <li>22. Would the EV charging station be in a preferred parking space?</li> <li>23. Are there lights illuminating the parking lot at night?</li> <li>24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?</li> <li>25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?</li> </ul>	No Yes No Yes Yes No Yes
<ul> <li>19. Is the parking for profile to flooding of other events that hight damage a charging station of plugged-in EV?</li> <li>20. Would the EV charging station be located in a covered parking space?</li> <li>21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?</li> <li>22. Would the EV charging station be in a preferred parking space?</li> <li>23. Are there lights illuminating the parking lot at night?</li> <li>24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?</li> <li>25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?</li> <li>26. How recently has major electrical work been performed at this location?</li> </ul>	No Yes No Yes Yes No Yes Within 10 years
<ul> <li>19. Is the parking lot profecto hooding of other events that hight damage a charging station of plugged-in EV?</li> <li>20. Would the EV charging station be located in a covered parking space?</li> <li>21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?</li> <li>22. Would the EV charging station be in a preferred parking space?</li> <li>23. Are there lights illuminating the parking lot at night?</li> <li>24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?</li> <li>25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?</li> <li>26. How recently has major electrical work been performed at this location?</li> <li>27. How far is the electrical panel from the point of the building closest to where the charging station would be located?</li> </ul>	No Yes No Yes Yes No Yes Within 10 years More than 100 feet





# Green Street Garage (72)

2. Do you ow	n or lease the parking lo	ot where	the EV charging station will be ins	talled?		Own
3. Do you own or lease the building where electricity will be drawn for the EV charging station?						Own
4. What is th	Business					
5. Which ver	ue best describes the pr	oposed	EV charging station location?			Business/Office
6. How long	to drivers typically park	their ve	hicles at this location?			4 – 8 hours
7. Is this loca	tion used for any specia	l event p	parking?			Yes
7B. Approxin	ately how many special	events	per year?			0 - 25
8. How far is US highway,	this location from a bus or State route)?	y road u	sed to travel between cities (typica	illy an in	terstate,	On a State Road
9. Which pot	ential EV drivers are exp	ected to	o use the charging station?			All
10. Would ar charging stat	EV driver require a per ion is located?	mit, sticl	ker, or card to access the parking lo	ot where	the	Yes
11. Is there a would there	fee to access the parkin oe a fee to use the char	ng lot wh ging stat	ere the charging station would be ion?	located	or	Fee for access and use
12. Would the charging station be located in a parking lot or garage with limited hours of operation?						No
13. How many parking spaces are in the lot or garage?						More than 50
14. Typically, how full is the parking lot or garage?						75%
15. Is there fluctuation in parking lot use by season?					Some fluctuation	
16. Is there fluctuation in parking lot use by day of the week?						Minimal fluctuation
17. Would the EV charging station be mounted on the wall of a building where the cord could run to the EV and not interfere with a pedestrian walkway?					Yes	
18. Is the par	king lot paved?					Yes
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?				No		
20. Would th	e EV charging station be	located	in a covered parking space?			Yes
21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?					r in a	No
22. Would the EV charging station be in a preferred parking space?						Yes
23. Are there lights illuminating the parking lot at night?						Yes
24. Would th parking lot o	e EV charging station an garage?	ıd parkin	ng space be visible from the road o	r entrano	ce to the	No
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?				y for a	Yes	
26. How rece	ntly has major electrica	work b	een performed at this location?			Within 10 years
27. How far i station would	the electrical panel fro	m the p	oint of the building closest to when	e the ch	arging	More than 100 feet
Highest Scoring Answer         Lowest Scoring Answer         Mid-range				ange Scoring Answer		





### GreenStar Cooperative Market (69)

	•			
2. Do you own or lease the parking lo	ot where the EV charging station will be	nstalled?		Own
3. Do you own or lease the building v	Own			
4. What is the predominant land use	Business			
5. Which venue best describes the p	roposed EV charging station location?			Business/Office
6. How long do drivers typically park	their vehicles at this location?			1 – 2 hours
7. Is this location used for any specia	l event parking?			No
8. How far is this location from a bus US highway, or State route)?	y road used to travel between cities (typ	ically an ir	iterstate,	On a State Road
9. Which potential EV drivers are exp	pected to use the charging station?			General Public
10. Would an EV driver require a per charging station is located?	mit, sticker, or card to access the parkin	g lot where	e the	No
11. Is there a fee to access the parkir would there be a fee to use the char	ng lot where the charging station would ging station?	be located	or	No fees for access or use
12. Would the charging station be lo operation?	No			
13. How many parking spaces are in		25 - 50		
14. Typically, how full is the parking l	100%			
15. Is there fluctuation in parking lot	Minimal fluctuation			
16. Is there fluctuation in parking lot	Some fluctuation			
17. Would the EV charging station be run to the EV and not interfere with	Yes			
18. Is the parking lot paved?	Yes			
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?				No
20. Would the EV charging station be located in a covered parking space?				No
21. Would the EV charging station ne location where snow is stored in the	No			
22. Would the EV charging station be		No		
23. Are there lights illuminating the p		Yes		
24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?			ce to the	Yes
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?				Don't Know
26. How recently has major electrical work been performed at this location?				Within 10 years
27. How far is the electrical panel from station would be located?	om the point of the building closest to w	ere the ch	narging	Fewer than 10 feet
Highest Scoring Answer	ange Scoring Answer			





## Taughannock Falls State Park (68)

2. Do you own or lease the parking lo	Own				
3. Do you own or lease the building v	Own				
4. What is the predominant land use	for the l	EV charging station site?			Government
5. Which venue best describes the p	roposed	EV charging station location?			Park/Recreational Facility
6. How long do drivers typically park	their ve	hicles at this location?			2 – 4 hours
7. Is this location used for any specia	l event p	parking?			Yes
7B. Approximately how many specia	events	per year?			0 - 25
8. How far is this location from a bus US highway, or State route)?	y road u	sed to travel between cities (typica	lly an in	iterstate,	On a State Road
9. Which potential EV drivers are exp	ected to	o use the charging station?			All
10. Would an EV driver require a per charging station is located?	mit, sticl	ker, or card to access the parking lo	ot where	e the	Yes
11. Is there a fee to access the parkin would there be a fee to use the char	ng lot wh ging stat	ere the charging station would be ion?	located	or	Only a fee to access the parking lot
12. Would the charging station be lo operation?	cated in	a parking lot or garage with limited	hours	of	Yes
13. How many parking spaces are in the lot or garage?					More than 50
14. Typically, how full is the parking lot or garage?					50%
15. Is there fluctuation in parking lot use by season?					A lot of fluctuation
16. Is there fluctuation in parking lot use by day of the week?					A lot of fluctuation
17. Would the EV charging station be mounted on the wall of a building where the cord could run to the EV and not interfere with a pedestrian walkway?					Yes
18. Is the parking lot paved?					Yes
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?					No
20. Would the EV charging station be located in a covered parking space?					No
21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?					No
22. Would the EV charging station be in a preferred parking space?					Yes
23. Are there lights illuminating the	barking l	ot at night?			Yes
24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?				Yes	
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?				Don't Know	
26. How recently has major electrica	l work b	een performed at this location?			Within 10 years
27. How far is the electrical panel from station would be located?	om the p	oint of the building closest to wher	e the ch	narging	10 - 50 feet
Highest Scoring Answer         Lowest Scoring Answer         Mid-				ange Scoring Answer	





## All Pro Parking Garage on Cayuga Street (67)

		_		
2. Do you own or lease the parking lo		Lease		
3. Do you own or lease the building w	Lease			
4. What is the predominant land use	for the EV charging station site?			Business
5. Which venue best describes the pr	oposed EV charging station location?			Garage
5B. How many individual venues (e.g.	., stores or businesses) are within 500 fee	t of this l	ocation?	10+ other venues
6. How long do drivers typically park	their vehicles at this location?			4 - 8 hours
7. Is this location used for any special	l event parking?			Yes
7B. Approximately how many special	events per year?			0 - 25
8. How far is this location from a busy US highway, or State route)?	y road used to travel between cities (typic	ally an ir	iterstate,	0.1 – 0.5 miles
9. Which potential EV drivers are exp	ected to use the charging station?			General Public
10. Would an EV driver require a perr charging station is located?	mit, sticker, or card to access the parking	ot where	e the	No
11. Is there a fee to access the parkin would there be a fee to use the charge	וg lot where the charging station would be ging station?	located	or	Only a fee to access the parking garage
12. Would the charging station be located in a parking lot or garage with limited hours of operation?				No
13. How many parking spaces are in t	More than 50			
14. Typically, how full is the parking lo	50%			
15. Is there fluctuation in parking lot	Minimal fluctuation			
16. Is there fluctuation in parking lot	Minimal fluctuation			
17. Would the EV charging station be run to the EV and not interfere with a	Yes			
18. Is the parking lot paved?			Yes	
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?			No	
20. Would the EV charging station be located in a covered parking space?				Yes
21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?				No
22. Would the EV charging station be		Yes		
23. Are there lights illuminating the p		Yes		
24. Would the EV charging station and parking space be visible from the road or entrance to the				No
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?				Yes
26. How recently has major electrical	I work been performed at this location?			Within 10 years
27. How far is the electrical panel from station would be located?	m the point of the building closest to whe	re the ch	narging	10 - 50 feet
Highest Scoring Answer	Lowest Scoring Answer		Mid-r	ange Scoring Answer





# East Hill Plaza (65)

2. Do you own or lease the parking lot	where the EV charging station will be inst	talled?	Own
3. Do you own or lease the building w	Own		
4. What is the predominant land use f	Business		
5. Which venue best describes the pro	pposed EV charging station location?		Retail Outlet
5B. How many individual venues (e.g.,	, stores or businesses) are within 500 feet	of this location?	6 - 10 other venues
6. How long do drivers typically park t	heir vehicles at this location?		1 - 2 hours
7. Is this location used for any special	event parking?		No
8. How far is this location from a busy US highway, or State route)?	road used to travel between cities (typica	lly an interstate,	0.5 - 1 mile
9. Which potential EV drivers are expe	ected to use the charging station?		All
10. Would an EV driver require a pern charging station is located?	nit, sticker, or card to access the parking lo	ot where the	No
11. Is there a fee to access the parking would there be a fee to use the charge	g lot where the charging station would be ing station?	located or	No fees for access or use
12. Would the charging station be local operation?	ated in a parking lot or garage with limited	hours of	No
13. How many parking spaces are in the	More than 50		
14. Typically, how full is the parking lo	75%		
15. Is there fluctuation in parking lot u	Minimal fluctuation		
16. Is there fluctuation in parking lot u	Minimal fluctuation		
17. Would the EV charging station be run to the EV and not interfere with a	No		
17B. How far from the building would	the charging station be placed?		50 - 100 feet
18. Is the parking lot paved?	Yes		
19. Is the parking lot prone to flooding plugged-in EV?	No		
20. Would the EV charging station be	No		
21. Would the EV charging station nee location where snow is stored in the v	No		
22. Would the EV charging station be	Yes		
23. Are there lights illuminating the pa	Yes		
24. Would the EV charging station and parking lot or garage?	Yes		
25. Does the existing electrical panel h dual port Level 2 charging station?	Don't Know		
26. How recently has major electrical	work been performed at this location?		Don't Know
26B. How old is the building where the	e charging station electricity would come f	from?	30 – 40 years old
27. How far is the electrical panel from station would be located?	n the point of the building closest to where	e the charging	50 - 100 feet
Highest Scoring Answer	Lowest Scoring Answer	Mid-	range Scoring Answer





# Ithaca Shopping Plaza (65)

2. Do you own or lease the parking lot	Own		
3. Do you own or lease the building wh	n? Own		
4. What is the predominant land use for	Business		
5. Which venue best describes the pro	Retail		
5B. How many individual venues (e.g.,	on? 1 - 5 other venues		
6. How long do drivers typically park the	neir vehicles at this location?		Less than 1 hour
7. Is this location used for any special e	event parking?		No
8. How far is this location from a busy US highway, or State route)?	road used to travel between cities (typica	lly an interst	on a State Road
9. Which potential EV drivers are expe	cted to use the charging station?		All
10. Would an EV driver require a perm charging station is located?	it, sticker, or card to access the parking lo	ot where the	No
11. Is there a fee to access the parking would there be a fee to use the chargi	lot where the charging station would be ng station?	located or	No fees for access or use
12. Would the charging station be loca operation?	ited in a parking lot or garage with limited	l hours of	No
13. How many parking spaces are in th	ne lot or garage?		More than 50
14. Typically, how full is the parking lo	75%		
15. Is there fluctuation in parking lot u	Some fluctuation		
16. Is there fluctuation in parking lot u	Minimal fluctuation		
17. Would the EV charging station be r run to the EV and not interfere with a	d No		
17B. How far from the building would	the charging station be placed?		50 – 100 feet
18. Is the parking lot paved?			Yes
19. Is the parking lot prone to flooding plugged-in EV?	or No		
20. Would the EV charging station be I	No		
21. Would the EV charging station nee location where snow is stored in the w	No		
22. Would the EV charging station be i	n a preferred parking space?		No
23. Are there lights illuminating the pa	Yes		
24. Would the EV charging station and parking lot or garage?	the Yes		
25. Does the existing electrical panel h dual port Level 2 charging station?	a Yes		
26. How recently has major electrical v	Within 10 years		
27. How far is the electrical panel from station would be located?	g 10 - 50 feet		
Highest Scoring Answer	Mid-range Scoring Answer		





# Tompkins County Visitor Bureau (63)

•	•			
2. Do you own or lease the parking lot v	Own			
3. Do you own or lease the building wh	Own			
4. What is the predominant land use fo	Business			
5. Which venue best describes the prop	Business/Office			
6. How long do drivers typically park th	4 - 8 hours			
7. Is this location used for any special e	No			
8. How far is this location from a busy r US highway, or State route)?	oad used to travel between cities (typ	ically an ir	nterstate,	0.1 – 0.5 miles
9. Which potential EV drivers are expec	ted to use the charging station?			All
10. Would an EV driver require a permi charging station is located?	t, sticker, or card to access the parking	g lot wher	e the	No
11. Is there a fee to access the parking	lot where the charging station would	be located	lor	No fees for access or
12. Would there be a fee to use the charging	ed in a parking lot or garage with limi	ed hours	of	use
operation?				No
13. How many parking spaces are in the	e lot or garage?			25 - 50
14. Typically, how full is the parking lot	50%			
15. Is there fluctuation in parking lot us	Some fluctuation			
16. Is there fluctuation in parking lot us	A lot of fluctuation			
17. Would the EV charging station be m run to the EV and not interfere with a p	nounted on the wall of a building when nedestrian walkway?	e the core	d could	No
17B. How far from the building would t	he charging station be placed?			Less than 50 feet
18. Is the parking lot paved?				Yes
19. Is the parking lot prone to flooding plugged-in EV?	No			
20. Would the EV charging station be lo		No		
21. Would the EV charging station need location where snow is stored in the wi	No			
22. Would the EV charging station be ir	Yes			
23. Are there lights illuminating the par	Yes			
24. Would the EV charging station and parking lot or garage?	Yes			
25. Does the existing electrical panel had dual port Level 2 charging station?	Don't Know			
26. How recently has major electrical w	Within 10 years			
27. How far is the electrical panel from station would be located?	50 - 100 feet			
Highest Scoring Answer	range Scoring Answer			





# Freeville Municipal Lot (62)

2. Do you own or lease the parking lot	Own				
3. Do you own or lease the building w	Own				
4. What is the predominant land use f	or the l	EV charging station site?			Government
5. Which venue best describes the pro	Municipal Lot				
5B. How many individual venues (e.g.,	1 - 5 other venues				
6. How long do drivers typically park t	heir vel	hicles at this location?			4 - 8 hours
7. Is this location used for any special	event p	parking?			Yes
7B. Approximately how many special	events	per year?			50 - 100
8. How far is this location from a busy US highway, or State route)?	road u	sed to travel between cities (typica	lly an in	terstate,	2 - 5 miles
9. Which potential EV drivers are expe	ected to	use the charging station?			All
10. Would an EV driver require a pern charging station is located?	nit, sticl	ker, or card to access the parking lo	ot where	e the	No
11. Is there a fee to access the parking would there be a fee to use the charg	g lot wh ing stat	ere the charging station would be ion?	located	or	No fees for access or use
12. Would the charging station be local operation?	ated in	a parking lot or garage with limited	l hours (	of	No
13. How many parking spaces are in the	he lot o	r garage?			10 - 25
14. Typically, how full is the parking lo	50%				
15. Is there fluctuation in parking lot use by season?					Minimal fluctuation
16. Is there fluctuation in parking lot u	use by d	lay of the week?			A lot of fluctuation
17. Would the EV charging station be	mounte	ed on the wall of a building where t	he cord	could	No
Tun to the EV and not interfere with a	the cha	rian waikway?			Less than 50 feet
18 Is the parking lot paved?	the end				Voc
19. Is the parking lot prone to flooding	g or oth	er events that might damage a cha	rging st	ation or	105
plugged-in EV?				No	
20. Would the EV charging station be	located	in a covered parking space?			No
21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?					No
22. Would the EV charging station be		No			
23. Are there lights illuminating the parking lot at night?					Yes
24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?					Yes
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?					Don't Know
26. How recently has major electrical work been performed at this location?					Don't Know
26B. How old is the building where the charging station electricity would come from?					30 – 40 <mark>y</mark> ears old
27. How far is the electrical panel from the point of the building closest to where the charging					Fewer than 10 feet
station would be located?		Lowest Scoring Answer		N1:4 -	ango Scoring Answer
Fighest Scotting Allswei		Lowest Scoring Allswei		iviiu-f	ange scoring Answer





## Ithaca Farmer's Market (60)

2. Do you own or lease the parking lo	Own		
3. Do you own or lease the building w	Own		
4. What is the predominant land use	Business		
5. Which venue best describes the pro	Retail Outlet		
5B. How many individual venues (e.g.	, stores or businesses) are within 500 feet	of this location?	1 - 5 other venues
6. How long do drivers typically park t	1 - 2 hours		
7. Is this location used for any special	event parking?		Yes
7B. Approximately how many special	events per year?		0 - 25
8. How far is this location from a busy US highway, or State route)?	road used to travel between cities (typica	lly an interstate,	0.1 – 0.5 mile
9. Which potential EV drivers are expe	ected to use the charging station?		Visitors
10. Would an EV driver require a perr charging station is located?	nit, sticker, or card to access the parking lo	t where the	No
11. Is there a fee to access the parking	g lot where the charging station would be l	ocated or	No fees for access or
12. Would the charging station be loc	ated in a parking lot or garage with limited	hours of	use
operation?	······································		No
13. How many parking spaces are in t	More than 50		
14. Typically, how full is the parking lo	100%		
15. Is there fluctuation in parking lot	use by season?		A lot of fluctuation
16. Is there fluctuation in parking lot	use by day of the week?		A lot of fluctuation
17. Would the EV charging station be run to the EV and not interfere with a	mounted on the wall of a building where t pedestrian walkway?	he cord could	Yes
18. Is the parking lot paved?			No
19. Is the parking lot prone to floodin plugged-in EV?	No		
20. Would the EV charging station be	No		
21. Would the EV charging station need location where snow is stored in the v	owing or in a	No	
22. Would the EV charging station be		No	
23. Are there lights illuminating the p		No	
24. Would the EV charging station and	No		
25. Does the existing electrical panel			
dual port Level 2 charging station?	Don't Know		
26. How recently has major electrical	Don't Know		
26B. How old is the building where th	rom?	10 - 20 years old	
27. How far is the electrical panel from station would be located?	n the point of the building closest to wher	e the charging	10 - 50 feet
Highest Scoring Answer	Lowest Scoring Answer	Mid-r	ange Scoring Answer





### Tompkins-Cortland Community College (56)

		-			
2. Do you own or lease the parking lo		Own			
3. Do you own or lease the building v	ation?	Own			
4. What is the predominant land use	Institutional				
5. Which venue best describes the p		Educational Services			
6. How long do drivers typically park	their vehicles at this location?			2 - 4 hours	
7. Is this location used for any specia	l event parking?			Yes	
7B. Approximately how many specia	l events per year?			0 - 25	
8. How far is this location from a bus US highway, or State route)?	y road used to travel between cities (typical	lly an inte	erstate,	0.5 - 1 mile	
9. Which potential EV drivers are exp	pected to use the charging station?			All	
10. Would an EV driver require a per charging station is located?	mit, sticker, or card to access the parking lo	ot where t	he	No	
11. Is there a fee to access the parkir would there be a fee to use the char	ng lot where the charging station would be I ging station?	located o	r	No fees for access or use	
12. Would the charging station be lo operation?	cated in a parking lot or garage with limited	hours of		No	
13. How many parking spaces are in	the lot or garage?			More than 50	
14. Typically, how full is the parking		75%			
15. Is there fluctuation in parking lot		Some fluctuation			
16. Is there fluctuation in parking lot		A lot of fluctuation			
17. Would the EV charging station be run to the EV and not interfere with	ould	No			
17B. How far from the building woul	d the charging station be placed?			100 – 200 feet	
18. Is the parking lot paved?		Yes			
19. Is the parking lot prone to floodin plugged-in EV?	ion or	No			
20. Would the EV charging station be		No			
21. Would the EV charging station ne location where snow is stored in the	in a	Yes			
22. Would the EV charging station be		No			
23. Are there lights illuminating the		Yes			
24. Would the EV charging station ar	to the	No			
25. Does the existing electrical panel dual port Level 2 charging station?	for a	No			
26. How recently has major electrica		Within 10 years			
27. How far is the electrical panel fro	rging	More than 100 feet			
Highest Scoring Answer	Lowest Scoring Answer	Mid-range Scoring Answer			





# Cass Park (55)

2. Do you own or lease the parking lot	Own				
3. Do you own or lease the building wl	Own				
4. What is the predominant land use f	Government				
5. Which venue best describes the pro	Park/Recreational Facility				
6. How long do drivers typically park the second seco	neir veh	icles at this location?			1 - 2 hours
7. Is this location used for any special	Yes				
7B. Approximately how many special e	events p	per year?			50 - 75
8. How far is this location from a busy US highway, or State route)?	road us	ed to travel between cities (typica	lly an in	terstate,	On a State Road
9. Which potential EV drivers are expe	cted to	use the charging station?			All
10. Would an EV driver require a perm charging station is located?	nit, stick	er, or card to access the parking lo	ot where	e the	No
11. Is there a fee to access the parking would there be a fee to use the chargi	; lot wh ng stati	ere the charging station would be on?	located	or	No fees for access or use
12. Would the charging station be loca operation?	ated in a	a parking lot or garage with limited	hours (	of	No
13. How many parking spaces are in th	ne lot or	garage?			More than 50
14. Typically, how full is the parking lot or garage?					75%
15. Is there fluctuation in parking lot use by season?					A lot of fluctuation
16. Is there fluctuation in parking lot u	se by d	ay of the week?			Some fluctuation
17. Would the EV charging station be mounted on the wall of a building where the cord could run to the EV and not interfere with a pedestrian walkway?					No
17B. How far from the building would	the cha	rging station be placed?			100 – 200 feet
18. Is the parking lot paved?					Yes
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?					Yes
20. Would the EV charging station be I	ocated	in a covered parking space?			No
21. Would the EV charging station nee location where snow is stored in the w	d to be vinter?	placed where it would obstruct pl	owing c	or in a	No
22. Would the EV charging station be i	n a pre	ferred parking space?			No
23. Are there lights illuminating the parking lot at night?					Yes
24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?					Yes
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?					Don't Know
26. How recently has major electrical work been performed at this location?					Within 10 years
27. How far is the electrical panel from the point of the building closest to where the charging					More than 100 feet
station would be located?       Highest Scoring Answer       Mid-range Scoring Answer					





### Buttermilk Falls State Park (55)

2. Do you own or lease the parking lo	Own				
3. Do you own or lease the building w	Own				
4. What is the predominant land use	Government				
5. Which venue best describes the pr	Park/Recreational Facility				
6. How long do drivers typically park	2 - 4 hours				
7. Is this location used for any special	l event parking?			No	
8. How far is this location from a busy US highway, or State route)?	y road used to travel between cities	(typically an i	nterstate,	On a State Road	
9. Which potential EV drivers are exp	ected to use the charging station?			All	
10. Would an EV driver require a peri charging station is located?	mit, sticker, or card to access the pa	rking lot whei	e the	Yes	
11. Is there a fee to access the parkin would there be a fee to use the charge	ng lot where the charging station wo ging station?	uld be located	d or	Only a fee to access the parking lot	
12. Would the charging station be loo operation?	cated in a parking lot or garage with	limited hours	of	Yes	
13. How many parking spaces are in t	the lot or garage?			More than 50	
14. Typically, how full is the parking l	75%				
15. Is there fluctuation in parking lot	A lot of fluctuation				
16. Is there fluctuation in parking lot	Some fluctuation				
17. Would the EV charging station be run to the EV and not interfere with a	No				
17B. How far from the building would	50 – 100 feet				
18. Is the parking lot paved?	Yes				
19. Is the parking lot prone to floodin plugged-in EV?	No				
20. Would the EV charging station be		No			
21. Would the EV charging station ne location where snow is stored in the	or in a	No			
22. Would the EV charging station be	in a preferred parking space?			Yes	
23. Are there lights illuminating the p		No			
24. Would the EV charging station an parking lot or garage?	nce to the	Yes			
25. Does the existing electrical panel dual port Level 2 charging station?	Don't Know				
26. How recently has major electrical		Within 10 years			
27. How far is the electrical panel fro station would be located?	harging	10 - 50 feet			
Highest Scoring Answer         Lowest Scoring Answer         Mid-range Scoring Answer					





# Stewart Park (51)

2. Do you own or lease the parking lo	Own				
3. Do you own or lease the building w	Own				
4. What is the predominant land use	Government				
5. Which venue best describes the pr	Park/Recreational				
6. How long do drivers typically park	1 - 2 hours				
7. Is this location used for any special	Yes				
7B. Approximately how many special	events	per year?			0 - 25
8. How far is this location from a busy US highway, or State route)?	road u	sed to travel between cities (typica	lly an in	terstate,	On a State Road
9. Which potential EV drivers are exp	ected to	use the charging station?			Visitors
10. Would an EV driver require a peri charging station is located?	nit, sticl	ker, or card to access the parking lo	ot where	e the	No
11. Is there a fee to access the parkin	g lot wh	ere the charging station would be	located	or	No fees for access or
12. Would the charging station be loc operation?	ated in	a parking lot or garage with limited	l hours o	of	No
13. How many parking spaces are in t	he lot o	r garage?			More than 50
14. Typically, how full is the parking l	50%				
15. Is there fluctuation in parking lot use by season?					A lot of fluctuation
16. Is there fluctuation in parking lot use by day of the week?					A lot of fluctuation
17. Would the EV charging station be mounted on the wall of a building where the cord could run to the EV and not interfere with a pedestrian walkway?					No
17B. How far from the building would	l the cha	arging station be placed?			Less than 50 feet
18. Is the parking lot paved?					Yes
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?					Yes
20. Would the EV charging station be located in a covered parking space?					No
21. Would the EV charging station ne location where snow is stored in the	ed to be winter?	e placed where it would obstruct pl	owing o	or in a	No
22. Would the EV charging station be	in a pre	ferred parking space?			Yes
23. Are there lights illuminating the parking lot at night?					No
24. Would the EV charging station and parking space be visible from the road or entrance to the					No
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a					Don't Know
dual port Level 2 charging station?					
26. How recently has major electrical work been performed at this location?					Within 10 years
station would be located?	larging	10 - 50 feet			
Highest Scoring Answer         Lowest Scoring Answer         Mid-range Sc					ange Scoring Answer





## Ithaca-Tompkins Regional Airport (48)

		•		•	
2. Do you own or lease the parking lo	Own				
3. Do you own or lease the building v	Own				
4. What is the predominant land use	Government				
5. Which venue best describes the p	Transportation Hub				
6. How long do drivers typically park	More than 8 hours				
7. Is this location used for any specia	No				
8. How far is this location from a bus US highway, or State route)?	y road u	sed to travel between cities (typica	lly an in	terstate,	0.5 – 1 mile
9. Which potential EV drivers are exp	ected to	use the charging station?			General Public
10. Would an EV driver require a per charging station is located?	mit, sticl	ker, or card to access the parking lo	ot where	e the	No
11. Is there a fee to access the parkir would there be a fee to use the char	ig lot wh ging stat	ere the charging station would be ion?	located	or	Fee to park and to use the station
12. Would the charging station be lo operation?	cated in	a parking lot or garage with limited	hours o	of	No
13. How many parking spaces are in	the lot o	r garage?			More than 50
14. Typically, how full is the parking l	ot or gai	age?			75%
15. Is there fluctuation in parking lot use by season?					Minimal fluctuation
16. Is there fluctuation in parking lot use by day of the week?					Some fluctuation
17. Would the EV charging station be run to the EV and not interfere with	e mounte a pedest	ed on the wall of a building where t rian walkway?	he cord:	could	No
17B. How far from the building woul	d the cha	arging station be placed?			More than 200 feet
18. Is the parking lot paved?					Yes
19. Is the parking lot prone to flooding or other events that might damage a charging station or plugged-in EV?					No
20. Would the EV charging station be located in a covered parking space?					No
21. Would the EV charging station need to be placed where it would obstruct plowing or in a location where snow is stored in the winter?					No
22. Would the EV charging station be in a preferred parking space?					Yes
23. Are there lights illuminating the parking lot at night?					Yes
24. Would the EV charging station and parking space be visible from the road or entrance to the parking lot or garage?					No
25. Does the existing electrical panel have 4 extra slots and 80 amps of available capacity for a dual port Level 2 charging station?					No
26. How recently has major electrical work been performed at this location?					More than 20 years ago
27. How far is the electrical panel fro station would be located?	m the p	pint of the building closest to wher	e the ch	arging	More than 100 feet
Highest Scoring Answer	Highest Scoring Answer         Lowest Scoring Answer         Mid-range Scoring Ans				



