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Electric Vehicle Charging Stations

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Proposal to Install Electric Vehicle Charging Station at Wallingford Rd. Public Parking Deck

- Blue Ridge Energy has been awarded a funding grant from Duke Energy to install an Electric Vehicle (EV) charging station in downtown Blowing Rock at the Public Parking deck on Wallingford Rd. The award allows for up to \$5000 per charging station.
- The Town of Blowing Rock will need to cover approximately \$2177 (excluding wiring) to secure the charging station and installation. The Town will be responsible for installing the electrical wiring between the load center and charger. The installation and commissioning of the charging stations must be completed by December 31, 2017.
- Blue Ridge Energy has signed a purchase order for a wall mounted Chargepoint CT4023 Dual Port Level 2 Commercial Charging Station capable of charging two EVs simultaneously from 0% to 80% in 4 hours.
- Chargepoint will provide networking services that will allow the Town of Blowing Rock to charge drivers for the use of the EV charging station on a flat fee, hourly or per kWh basis. Most research indicates that free charging initially is the most effective way to drive use of EV chargers and wider adoption of EVs.
- The location of each charging station must be well-lit and safe and in compliance with the American with Disabilities Act (3 parking spaces would be required for the 2 port charger) Please find additional details in the NCPEV Accessibility for Public Charging Stations attachment

ITEM	Cost
ChargePoint CT4023 Wall Mount Dual Port Level 2 Charging Station	\$6035
Installation	\$900
Year 1 Network Services (Fee Structure, access control, monitoring, 24/7 cust. service)	FREE
Year 1 Extended Assure On-Site Parts, Labor and Station Management	FREE
Shipping	\$182
TOTAL	\$7117
<u>Potential ongoing (after year 1) Costs:</u>	
Network Service Plan (required to charge a fee for use of station) Recommended	\$560
Extended Coverage Plan per year (Optional)	\$760
<u>Charging Income/Expense</u>	
Typical charging fee per hour	\$2.00
kWh cost of a typical charge per hour	\$0.80