| INPUTS:   |                          |            |     |            | no               | tes        |  |
|---|--------------------------|------------|-----|------------|------------------|------------|--|
| # of chargers per station   |                          | 2          |     |            |                  |            |  |
| peak load per charger   |                          | 60         | k٧  | V          |                  |            |  |
| EV charging cost to customer  | <mark>0.378</mark> \$/kw |            |     | kwhr       | whr Matches(\$0. |            |  |
| fixed station operating expense per month                             |                          | \$450      | \$/ | mo         | inc              | ludes insu |  |
| Station capital cost  | \$                       | 150,000    |     |            | ne               | t of VW se |  |
| Station owner annual return (target)                                  |                          | 6%         |     |            | reo              | quired ROI |  |
| station electrical efficiency   |                          | 95%        |     |            |                  |            |  |
| Rate GV   |                          |            |     |            | Pre              | oposed ra  |  |
| Fixed Charge monthly  | \$                       | 211        |     |            |                  | Fixed Cha  |  |
| Demand Charge (per kW)  | \$                       | 18         |     |            |                  | Demand     |  |
| Distribution charge (per kwhr) incl SBC and stranded cost             | \$                       | 0.016      |     |            |                  | Distributi |  |
| Energy charge (per kwhr) (average through year)                       | \$                       | 0.120      |     |            |                  | Energy cł  |  |
|   |                          |            |     |            |                  |            |  |
| peak station load (kW) allowing for efficiency losses                 |                          | 126        |     | 126        |                  | 126        |  |
| Load factor (%)   |                          | 3%         |     | 5%         |                  | 7%         |  |
| kwhr per month  |                          | 2,728      |     | 4,547      |                  | 6,366      |  |
| Monthly utility cost - Rate GV  | \$                       | 2,856      | \$  | 3,103      | \$               | 3,351      |  |
| Monthly utility cost- Proposed Rate A4                                | \$                       | 1,193      | \$  | 1,848      | \$               | 2,503      |  |
| average # of charge sessions per day (15 min)                         |                          | 6          |     | 10         |                  | 13         |  |
| Gross revenue for charge station operator (month)                     | \$                       | 980        | \$  | 1,633      | \$               | 2,286      |  |
| Gross monthly revenue for charge station operator after fixed expense | \$                       | 530        | \$  | 1,183      | \$               | 1,836      |  |
| Net monthly income for charge station operator rate GV                |                          | (\$2,326)  |     | (\$1,920)  |                  | (\$1,514)  |  |
| Net monthly income for charge station operator rate A4                |                          | (\$663)    |     | (\$665)    |                  | (\$667)    |  |
| Minimum Annual Required Return on capital investment (ROI)            |                          | \$9,000    |     | \$9,000    |                  | \$9,000    |  |
| Annual Revenue Excess/(shortfall) vs required (rate GV)               | (                        | (\$36,912) |     | (\$32,042) |                  | (\$27,172) |  |
| Annual Revenue Excess/(shortfall) vs required (rate A4)               | (                        | \$16,961)  |     | (\$16,981) |                  | (\$17,001) |  |





Note: Graph above does not include ANY return on initial capital investment

Upper series above is same as Eversource graph below though with linear x axis (and minor rounding errors) Rate GV breakeven point is approximately 40 years

This does not account for replacing hardware. VW funding only covers 5 years of warranty + O&M.

High utilization load factors will inevtiably result in heat stressed equipment that will need periodic componer



| 1.1 | <br>+-1-10 | 4 41.00 | 4-10-10 | 40,000 |  |
|-----|------------|---------|---------|--------|--|
| 1.0 |            |         |         |        |  |

42) Electrify America. Evgo, etc. net of transaction fees. Note: Tesla Superchargers \$0 rance, basic O&M, vandalism (doesn't include parking site license/lease fee or capital extlement trust fund grant

| te A4                                    |             |
|--|-------------|
| arge monthly                             | \$<br>211   |
| Charge (per kW)                          | \$<br>-     |
| on charge (per kwhr) incl SBC and strand | \$<br>0.240 |
| narge (per kwhr) (average through year)  | \$<br>0.120 |

| 126        |                  |    | 126        | 126        |         |  |
|------------|------------------|----|------------|------------|---------|--|
| 10%        |                  |    | 15%        | 20%        |         |  |
|            | 9,095            |    | 13,642     |            | 18,189  |  |
| \$         | 3,722            | \$ | 4,340      | \$         | 4,958   |  |
| \$         | 3,485            | \$ | 5,122      | \$         | 6,759   |  |
|            | 19               |    | 29         |            | 38      |  |
| \$         | 3,266            | \$ | 4,899      | \$         | 6,532   |  |
|            |                  |    |            |            |         |  |
| \$         | 2,816            | \$ | 4,449      | \$         | 6,082   |  |
|            | (\$906)          |    | \$109      |            | \$1,123 |  |
|            | (\$669)          |    | (\$673)    |            | (\$677) |  |
|            |                  |    |            |            |         |  |
|            | \$9 <i>,</i> 000 |    | \$9,000    |            | \$9,000 |  |
|            |                  |    |            |            |         |  |
| (\$19,868) |                  |    | (\$7,694)  | \$4,481    |         |  |
| (\$17,030) |                  |    | (\$17,079) | (\$17,128) |         |  |







4.100

## INPUTS:

| # of chargers per station                                 |    | 4                |         |
|---|----|------------------|---------|
| peak load per charger                                     |    | 150              | kW      |
| EV charging cost to customer                              |    | 0.378            | \$/kwhr |
| fixed station operating expense per month                 |    | \$800            | \$/mo   |
| Station capital cost                                      |    | \$400,000        |         |
| Station owner annual return                               |    | 6%               |         |
| station electrical efficiency                             |    | 95%              |         |
|   |    |                  | _       |
| Rate GV   |    |                  |         |
| Fixed Charge monthly                                      | \$ | s 211            |         |
| Demand Charge (per kW)                                    | Ş  | <mark>5 9</mark> |         |
| Distribution charge (per kwhr) incl SBC and stranded cost | \$ | 0.016            |         |
| Energy charge (per kwhr) (average through year)           | \$ | 0.120            |         |

| peak station load (kW) allowing for efficiency loss                    |    | 632        | 632 |                 |
|--|----|------------|-----|-----------------|
| Load factor (%)  |    | 3%         |     | <mark>5%</mark> |
| kwhr per month   |    | 13,642     |     | 22,737          |
| Monthly utility cost - Rate GV   | \$ | 7,751      | \$  | 8,987           |
| Monthly utility cost- Proposed Rate A4                                 | \$ | 5,122      | \$  | 8,396           |
| average # of charge sessions per day (15 min)                          |    | 12         |     | 19              |
| Gross revenue for charge station operator (month)                      | \$ | 4,899      | \$  | 8,165           |
| Gross monthly revenue for charge station operator after fixed expenses | \$ | 4,099      | \$  | 7,365           |
| Net monthly income for charge station operator rate GV                 |    | (\$3,652)  |     | (\$1,623)       |
| Net monthly income for charge station operator rate A4                 |    | (\$1,023)  |     | (\$1,031)       |
| Minimum Annual Required Return on capital investment                   |    | \$24,000   |     | \$24,000        |
| Annual Revenue Excess/(shortfall) vs required (rate GV)                | (  | (\$67,820) | (   | (\$43,471)      |
| Annual Revenue Excess/(shortfall) vs required (rate A4)                | (  | (\$36,279) | (   | (\$36,378)      |





Note: Graph above does not include ANY return on initial capital investment

Proposed rate A4 lowers the annual loss at low utilization, but **neither** rate allows station owner to ache Assuming the 20% load factor and profitability, the breakeven point if the economics remain the same (Even reducing Rate GV demand charge by 50% results in a break even point over 6 years.

This does not account for replacing hardware. NEVI funding only covers 5 years of warranty + O&M. High utilization load factors will inevtiably result in heat stressed equipment that will need periodic com

## notes

Minimum required to receive the NEVI federal funding Minimum required to receive the NEVI federal funding Matches(\$0.42) Electrify America. Evgo, etc. net of transaction fees. Note: Tesla Superchargers \$0. includes insurance, O&M, vandalism (doesn't include parking site license fee or network fee) net of state grant. required ROI

| Proposed rate A4  |             |
|---|-------------|
| Fixed Charge monthly                                      | \$<br>211   |
| Demand Charge (per kW)                                    | \$<br>-     |
| Distribution charge (per kwhr) incl SBC and stranded cost | \$<br>0.240 |
| Energy charge (per kwhr) (average through year)           | \$<br>0.120 |

|    | 632        |    | 632       |    | 632        |    | 632        |  |
|----|------------|----|-----------|----|------------|----|------------|--|
|    | 7%         |    | 10%       |    | 15%        |    | 20%        |  |
|    | 31,832     |    | 45,474    |    | 68,211     |    | 90,947     |  |
| \$ | 10,224     | \$ | 12,080    | \$ | 15,172     | \$ | 18,264     |  |
| \$ | 11,670     | \$ | 16,582    | \$ | 24,767     | \$ | 32,952     |  |
|    | 27         |    | 38        |    | 58         | 58 |            |  |
| \$ | 11,431     | \$ | 16,330    | \$ | 24,494     | \$ | 32,659     |  |
|    |            |    |           |    |            |    |            |  |
| \$ | 10,631     | \$ | 15,530    | \$ | 23,694     | \$ | 31,859     |  |
|    | \$406      |    | \$3,450   |    | \$8,523    |    | \$13,595   |  |
|    | (\$1,040)  |    | (\$1,052) |    | (\$1,072)  |    | (\$1,093)  |  |
|    |            |    |           |    |            |    |            |  |
|    | \$24,000   |    | \$24,000  |    | \$24,000   |    | \$24,000   |  |
|    |            |    |           |    |            |    |            |  |
| (  | (\$19,123) |    | \$17,400  |    | \$78,271   |    | \$139,142  |  |
|    | (\$36,476) | (  | \$36,623) |    | (\$36,869) |    | (\$37,114) |  |

9,142 Note: Graph above does not include ANY return on initial **7,114**) Note: Graph above does not include ANY return on initial







eive positive income, let alone return on initial investment, until ~15% Load factor (>60 charge sessions per day

capital investment capital investment