Category - Residential	Rebate - Low Income (under 80% AMI)	Rebate - moderate income (80 to 150% AMI)	Rebate (everyone)	Tax credit (low income up to 80% AMI)		Tax credit (Everyone)	Notes				
EV purchases - new		,	7500		,	(,					
							Assume 2/ 3 of vehicles				
EV purchases - used			4000				purchased are used				
							2024 solar panel installation cost in South				
Rooftop solar panels						30%	Carolina is \$2,736/kW				
Battery storage						30%					
EV charger						330	Assume half of households get an EV charger Only available in low-income census tracts (poverty rate >20%, median family income is less than 80% of MSA median family income) Assume average level 2 charger cost is \$1100				
Space Heat Pump	100%	50%				30%					
Hot water heat pump	100%	50%				30%					
Electrical panel upgrade (in conjuction with rooftop solar)	100%	50%				30%					
Electrical panel upgrade (in conjuction with heat pump)	100%	50%				30%					
Weatherization/retrofits - rebates	100%	50%									
Weatherization/retrofits - tax credits							Only covers purchase costs, not installation costs, for insulation, air sealing, doors and windows upgrades, and energy audits				
New residential						5000					
Existing non-residential						1.88					
New non-residential	44000	7000				1.88					
Existing residential Early Adopter (Commercial buildings0	14000	7000				0.05	From Dept of Commerce, assume 25% early compliance for each tier. Has to be met by compliance date				
Larry Adopter (Commercial buildingso						0.63	compliance date				
Charleston Stats											
# of census tracts meeting EV charger definition 22 out of 99 (22%); Table ID: S170	0.22										
80% AMI for average household size (2.18 people) - see link, select Charleston-North Charleston SC MSA	\$62,200										
Median Family Income (half of households make more than this, half make less) - see link, select Charleston-North Charleston SC MSA	\$101,300										
150% AMI for average household size	\$151,950										
Percentage of households that are 80% AMI or less - Table B19001 - added up all households with < \$59,000 (< 80% AMI)	0.38										
Percentage of households that are 80-150% AMI - Table B19001- from \$60,000 (80% AMI) to \$150,000 (150% AMI)	0.46										
Percentage of households that are > \$150,000 (> 150% AMI)	0.16										
LOW CARBON SCENARIO	2024	2025						2031	2032	2033	2034
# EVs	728	768	2,349	5,625	10,188	14,179	16,113	16,649	17,272	18,249	19,595
# plug in hybrids	240	270	252	450	526	467	324	177	78	26	4

# chargers (Assuming half of SF homes with new EV get one based on 64% of SF homes in Charleston)	310	332	832	1,944	3,429	4,687	5,260	5,384	5,552	5,848	6,272
# of dwellings retrofit	5,022	5,022	5,022	5,022	5,022	5,022	5,022	5,022	5,022	5,022	5,022
# of new SF dwellings	1,218	1,194	1,230	1,217	1,220	1,247	1,283	1,301	1,294	1,267	1,233
Sqf of non-res retrofit	7,131,583	5,211,542	5,211,541	5,211,541	5,211,542	5,211,540	5,211,544	5,211,540	5,211,540	5,211,544	5,211,540
Sqf of new non-res	768,456	753,217	776,053	767,694	769,529	787,041	809,602	820,512	816,485	799,340	777,976
BAP SCENARIO	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
# EVs	728	687	1,287	1,657	1,737	1,560	1,266	1,031	929	934	1,007
# plug in hybrids	240	270	253	464	576	575	485	367	277	234	224
# chargers (Assuming half of SF homes with new EV get one based on 64% of SF homes in Charleston)	310	306	493	679	740	683	561	447	386	374	394
# of dwellings retrofit	0	0	0	0	0	0	0	0	0	0	0
# of new SF dwellings	1,218	1,194	1,230	1,217	1,220	1,247	1,283	1,301	1,294	1,267	1,233
Sqf of non-res retrofit	0	0	0	0	0	0	0	0	0	0	0
Sqf of new non-res	0	0	0	0	0	0	0	0	0	0	0
# of dwellings retrofits - difference	-5,022	-5,022	-5,022	-5,022	-5,022	-5,022	-5,022	-5,022	-5,022	-5,022	-5,022
Sqf of non-res retrofit - difference	-7,131,583	-5,211,542	-5,211,541	-5,211,541	-5,211,542	-5,211,540	-5,211,544	-5,211,540	-5,211,540	-5,211,544	-5,211,540
IRA Rebates or Tax Credits	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Rooftop solar - Residential	-\$1,661,299	-\$1,662,120	-\$1,662,941	-\$1,663,762	-\$1,664,582	-\$1,665,403	-\$1,666,224	-\$1,667,045	-\$1,667,866	-\$1,668,686	-\$1,669,507
EVs - new (33% of total)	\$0	-\$198,767	-\$2,626,421	-\$9,787,412	-\$20,790,817	-\$30,966,557	-\$36,346,192	-\$38,185,785	-\$39,955,856	-\$42,341,434	-\$45,459,018
EVs - used (66% of total)	\$0	-\$212,018	-\$2,801,515	-\$10,439,906	-\$22,176,871	-\$33,030,994	-\$38,769,271	-\$40,731,504	-\$42,619,579	-\$45,164,196	-\$48,489,619
EV Chargers	\$0	-\$1,866	-\$24,653	-\$91,871	-\$195,156	-\$290,673	-\$341,170	-\$358,437	-\$375,052	-\$397,445	-\$426,709
Home retrofits [1]	-\$45,602,904	-\$45,602,904	-\$45,602,904	-\$45,602,904	-\$45,602,904	-\$45,602,904	-\$45,602,904	-\$45,602,904	-\$45,602,904	-\$45,602,904	-\$45,602,904
New Energy Efficient Homes [2]	-\$6,090,000	-\$5,969,200	-\$6,150,200	-\$6,083,850	-\$6,098,450	-\$6,237,250	-\$6,416,050	-\$6,502,500	-\$6,470,550	-\$6,334,700	-\$6,165,400
Commercial Retrofits - IRA Tax Credit	-\$13,407,376	-\$9,797,698	-\$9,797,697	-\$9,797,697	-\$9,797,699	-\$9,797,695	-\$9,797,703	-\$9,797,695	-\$9,797,695	-\$9,797,703	-\$9,797,695
New Energy Efficient Commercial Buildings - IRA Tax Credit	-\$1,444,698	-\$1,416,048	-\$1,458,980	-\$1,443,265	-\$1,446,715	-\$1,479,637	-\$1,522,052	-\$1,542,562	-\$1,534,991	-\$1,502,758	-\$1,462,594
IRA Rebates or Tax Credits	-\$68,206,277	-\$64,860,622	-\$70,125,312	-\$84,910,668	-\$107,773,195	-\$129,071,112	-\$140,461,566	-\$144,388,432	-\$148,024,494	-\$152,809,827	-\$159,073,447
Undiscounted total	-\$1,269,704,952										
NPV	-\$1,038,295,818										
Buildings actions cumulative funding potential(undiscounted)	-697,788,753										
Buildings - NPV	-517,796,879										