

SUMMARY OF SOLUTIONS BY OVERALL RANKING

			TOTAL ATMOSPHERIC CO ₂ -EQ REDUCTION (GT)	NET COST (BILLIONS US \$)	NET SAVINGS (BILLIONS US \$)
Solution	Sector				
1	Refrigerant Management	Materials	89.74	N/A	-\$902.77
2	Wind Turbines (Onshore)	Energy	84.60	\$1,225.37	\$7,425.00
3	Reduced Food Waste	Food	70.53	N/A	N/A
4	Plant-Rich Diet	Food	66.11	N/A	N/A
5	Tropical Forests	Land Use	61.23	N/A	N/A
6	Educating Girls	Women and Girls	59.60	N/A	N/A
7	Family Planning	Women and Girls	59.60	N/A	N/A
8	Solar Farms	Energy	36.90	-\$80.60	\$5,023.84
9	Silvopasture	Food	31.19	\$41.59	\$699.37
10	Rooftop Solar	Energy	24.60	\$453.14	\$3,457.63
11	Regenerative Agriculture	Food	23.15	\$57.22	\$1,928.10
12	Temperate Forests	Land Use	22.61	N/A	N/A
13	Peatlands	Land Use	21.57	N/A	N/A
14	Tropical Staple Trees	Food	20.19	\$120.07	\$626.97
15	Afforestation	Land Use	18.06	\$29.44	\$392.33
16	Conservation Agriculture	Food	17.35	\$37.53	\$2,119.07
17	Tree Intercropping	Food	17.20	\$146.99	\$22.10
18	Geothermal	Energy	16.60	-\$155.48	\$1,024.34
19	Managed Grazing	Food	16.34	\$50.48	\$735.27
20	Nuclear	Energy	16.09	\$0.88	\$1,713.40
21	Clean Cookstoves	Food	15.81	\$72.16	\$166.28
22	Wind Turbines (Offshore)	Energy	14.10	\$572.40	\$274.57
23	Farmland Restoration	Food	14.08	\$72.24	\$1,342.47
24	Improved Rice Cultivation	Food	11.34	N/A	\$519.06
25	Concentrated Solar	Energy	10.90	\$1,319.70	\$413.85
26	Electric Vehicles	Transport	10.80	\$14,148.03	\$9,726.40
27	District Heating	Buildings and Cities	9.38	\$457.07	\$3,543.50
28	Multistrata Agroforestry	Food	9.28	\$26.76	\$709.75
29	Wave and Tidal	Energy	9.20	\$411.84	-\$1,004.70
30	Methane Digesters (Large)	Energy	8.40	\$201.41	\$148.83
31	Insulation	Buildings and Cities	8.27	\$3,655.92	\$2,513.33
32	Ships	Transport	7.87	\$915.93	\$424.38
33	LED Lighting - Household	Buildings and Cities	7.81	\$323.52	\$1,729.54
34	Biomass	Energy	7.50	\$402.31	\$519.35
35	Bamboo	Land Use	7.22	\$23.79	\$264.80
36	Alternative Cement	Materials	6.69	-\$273.90	N/A
37	Mass Transit	Transport	6.57	N/A	\$2,379.73
38	Forest Protection	Land Use	6.20	N/A	N/A
39	Indigenous Peoples' Land Management	Land Use	6.19	N/A	N/A
40	Trucks	Transport	6.18	\$543.54	\$2,781.63
41	Solar Water	Energy	6.08	\$2.99	\$773.65
42	Heat Pumps	Buildings and Cities	5.20	\$118.71	\$1,546.66

43	Airplanes	Transport	5.05	\$662.42	\$3,187.80
44	LED Lighting - Commercial	Buildings and Cities	5.04	-\$205.05	\$1,089.63
45	Building Automation	Buildings and Cities	4.62	\$68.12	\$880.55
46	Water Saving - Home	Materials	4.61	\$72.44	\$1,800.12
47	Bioplastic	Materials	4.30	\$19.15	N/A
48	In-Stream Hydro	Energy	4.00	\$202.53	\$568.36
49	Cars	Transport	4.00	-\$598.69	\$1,761.72
50	Cogeneration	Energy	3.97	\$279.25	\$566.93
51	Perennial Biomass	Land Use	3.33	\$77.94	\$541.89
52	Coastal Wetlands	Land Use	3.19	N/A	N/A
53	System of Rice Intensification	Food	3.13	N/A	\$677.83
54	Walkable Cities	Buildings and Cities	2.92	N/A	\$3,278.24
55	Household Recycling	Materials	2.77	\$366.92	\$71.13
56	Industrial Recycling	Materials	2.77	\$366.92	\$71.13
57	Smart Thermostats	Buildings and Cities	2.62	-\$74.16	\$640.10
58	Landfill Methane	Buildings and Cities	2.50	-\$1.82	\$67.57
59	Bike Infrastructure	Buildings and Cities	2.31	-\$2,026.97	\$400.47
60	Composting	Food	2.28	-\$63.72	-\$60.82
61	Smart Glass	Buildings and Cities	2.19	\$74.20	\$325.10
62	Women Smallholders	Women and Girls	2.06	N/A	\$87.60
63	Telepresence	Transport	1.99	\$127.72	\$1,310.59
64	Methane Digesters (Small)	Energy	1.90	\$15.50	\$13.90
65	Nutrient Management	Food	1.81	N/A	\$102.32
66	High-Speed Rail	Transport	1.52	-\$1,038.42	\$368.13
67	Farmland Irrigation	Food	1.33	\$216.16	\$429.67
68	Waste-to-Energy	Energy	1.10	\$36.00	\$19.82
69	Electric Bikes	Transport	0.96	\$106.75	\$226.07
70	Recycled Paper	Materials	0.90	\$573.48	N/A
71	Water Distribution	Buildings and Cities	0.87	\$137.37	\$903.11
72	Biochar	Food	0.81	N/A	N/A
73	Green Roofs	Buildings and Cities	0.77	\$1,393.29	\$988.46
74	Trains	Transport	0.52	\$808.64	\$313.86
75	Ridesharing	Transport	0.32	N/A	\$185.56
76	Micro Wind	Energy	0.20	\$36.12	\$19.90
77	Energy Storage (Distributed)	Energy	N/A	N/A	N/A
77	Energy Storage (Utilities)	Energy	N/A	N/A	N/A
77	Grid Flexibility	Energy	N/A	N/A	N/A
78	Microgrids	Energy	N/A	N/A	N/A
79	Net Zero Buildings	Buildings and Cities	N/A	N/A	N/A
80	Retrofitting	Buildings and Cities	N/A	N/A	N/A
Totals			1,051.01	\$27,405.68	\$73,874.52