

Rank	Solution	Sector	TOTAL ATMOSPHERIC CO2-EQ REDUCTION (GT)	NET COST (BILLIONS US \$)
1	Refrigerant Management	Materials	89.74	N/A
2	Wind Turbines (Onshore)	Electricity Generation	84.6	\$1,225.37
3	Reduced Food Waste	Food	70.53	N/A
4	Plant-Rich Diet	Food	66.11	N/A
5	Tropical Forests	Land Use	61.23	N/A
6	Educating Girls	Women and Girls	59.6	N/A
7	Family Planning	Women and Girls	59.6	N/A
8	Solar Farms	Electricity Generation	36.9	(\$80.60)
9	Silvopasture	Food	31.19	\$41.59
10	Rooftop Solar	Electricity Generation	24.6	\$453.14
11	Regenerative Agriculture	Food	23.15	\$57.22
12	Temperate Forests	Land Use	22.61	N/A
13	Peatlands	Land Use	21.57	N/A
14	Tropical Staple Trees	Food	20.19	\$120.07
15	Afforestation	Land Use	18.06	\$29.44
16	Conservation Agriculture	Food	17.35	\$37.53
17	Tree Intercropping	Food	17.2	\$146.99
18	Geothermal	Electricity Generation	16.6	(\$155.48)
19	Managed Grazing	Food	16.34	\$50.48
20	Nuclear	Electricity Generation	16.09	\$0.88
21	Clean Cookstoves	Food	15.81	\$72.16
22	Wind Turbines (Offshore)	Electricity Generation	14.1	\$545.30
23	Farmland Restoration	Food	14.08	\$72.24
24	Improved Rice Cultivation	Food	11.34	N/A
25	Concentrated Solar	Electricity Generation	10.9	\$1,319.70
26	Electric Vehicles	Transport	10.8	\$14,148.00
27	District Heating	Buildings and Cities	9.38	\$457.10
28	Multistrata Agroforestry	Food	9.28	\$26.76
29	Wave and Tidal	Electricity Generation	9.2	\$411.84
30	Methane Digesters (Large)	Electricity Generation	8.4	\$201.41
31	Insulation	Buildings and Cities	8.27	\$3,655.92
32	Ships	Transport	7.87	\$915.93
33	LED Lighting (Household)	Buildings and Cities	7.81	\$323.52
34	Biomass	Electricity Generation	7.5	\$402.31
35	Bamboo	Land Use	7.22	\$23.79
36	Alternative Cement	Materials	6.69	(\$273.90)
37	Mass Transit	Transport	6.57	N/A
38	Forest Protection	Land Use	6.2	N/A
39	Indigenous Peoples' Land Management	Land Use	6.19	N/A
40	Trucks	Transport	6.18	\$543.54
41	Solar Water	Electricity Generation	6.08	\$2.99
42	Heat Pumps	Buildings and Cities	5.2	\$118.71
43	Airplanes	Transport	5.05	\$662.42
44	LED Lighting (Commercial)	Buildings and Cities	5.04	(\$205.05)
45	Building Automation	Buildings and Cities	4.62	\$68.12
46	Water Saving - Home	Materials	4.61	\$72.44
47	Bioplastic	Materials	4.3	\$19.15
48	In-Stream Hydro	Electricity Generation	4	\$202.53

49	Cars	Transport	4	(\$598.69)
50	Cogeneration	Electricity Generation	3.97	\$279.25
51	Perennial Biomass	Land Use	3.33	\$77.94
52	Coastal Wetlands	Land Use	3.19	N/A
53	System of Rice Intensification	Food	3.13	N/A
54	Walkable Cities	Buildings and Cities	2.92	N/A
55	Household Recycling	Materials	2.77	\$366.92
56	Industrial Recycling	Materials	2.77	\$366.92
57	Smart Thermostats	Buildings and Cities	2.62	\$74.16
58	Landfill Methane	Buildings and Cities	2.5	(\$1.82)
59	Bike Infrastructure	Buildings and Cities	2.31	(\$2,026.97)
60	Composting	Food	2.28	(\$63.72)
61	Smart Glass	Buildings and Cities	2.19	\$932.30
62	Women Smallholders	Women and Girls	2.06	N/A
63	Telepresence	Transport	1.99	\$127.72
64	Methane Digesters (Small)	Electricity Generation	1.9	\$15.50
65	Nutrient Management	Food	1.81	N/A
66	High-speed Rail	Transport	1.52	\$1,038.42
67	Farmland Irrigation	Food	1.33	\$216.16
68	Waste-to-Energy	Electricity Generation	1.1	\$36.00
69	Electric Bikes	Transport	0.96	\$106.75
70	Recycled Paper	Materials	0.9	\$573.48
71	Water Distribution	Buildings and Cities	0.87	\$137.37
72	Biochar	Food	0.81	N/A
73	Green Roofs	Buildings and Cities	0.77	\$1,393.29
74	Trains	Transport	0.52	\$808.64
75	Ridesharing	Transport	0.32	N/A
76	Micro Wind	Electricity Generation	0.2	\$36.12
77	Energy Storage (Distributed)	Electricity Generation	N/A	N/A
77	Energy Storage (Utilities)	Electricity Generation	N/A	N/A
77	Grid Flexibility	Electricity Generation	N/A	N/A
78	Microgrids	Electricity Generation	N/A	N/A
79	Net Zero Buildings	Buildings and Cities	N/A	N/A
80	Retrofitting	Buildings and Cities	N/A	N/A

1050.99

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SAVINGS (BILLIONS US \$)
(\$902.77)
\$7,425.00
N/A
N/A
N/A
N/A
N/A
\$5,023.84
\$699.37
\$3,457.63
\$1,928.10
N/A
N/A
\$626.97
\$392.33
\$2,119.07
\$22.10
\$1,024.34
\$735.27
\$1,713.40
\$166.28
\$762.50
\$1,342.47
\$519.06
\$413.85
\$9,726.40
\$3,543.50
\$709.75
(\$1,004.70)
\$148.83
\$2,513.33
\$424.38
\$1,729.54
\$519.35
\$264.80
N/A
\$2,379.73
N/A
N/A
\$2,781.63
\$773.65
\$1,546.66
\$3,187.80
\$1,089.63
\$880.55
\$1,800.12
N/A
\$568.36

\$1,761.72
\$566.93
\$541.89
N/A
\$677.83
\$3,278.24
\$71.13
\$71.13
\$640.10
\$67.57
\$400.47
(\$60.82)
\$325.10
\$87.60
\$1,310.59
\$13.90
\$102.32
\$368.10
\$429.67
\$19.82
\$226.07
N/A
\$903.11
N/A
\$988.46
\$313.86
\$185.56
\$19.90
N/A
N/A
N/A
N/A
N/A
N/A