

PACHAMAMA ALLIANCE

Drawdown Solutions by Sector

Land Use

Tropical Forests
Temperate Forests
Peatlands
Afforestation
Bamboo
Forest Protection
Indigenous Peoples' Land
Management
Perennial Biomass
Coastal Wetlands

Food

Reduced Food Waste
Plant-Rich Diet
Silvopasture
Regenerative Agriculture
Tropical Staple Trees
Conservation Agriculture
Tree Intercropping
Managed Grazing
Clean Cookstoves
Farmland Restoration
Improved Rice
Cultivation
Multistrata Agroforestry
System of Rice
Intensification
Composting
Nutrient Management
Farmland Irrigation
Biochar

Materials

Refrigerant Management
Alternative Cement
Water Saving - Home
Bioplastic
Household Recycling
Industrial Recycling
Recycled Paper

Energy

Wind Turbines (Onshore)
Solar Farms
Rooftop Solar
Geothermal
Nuclear
Wind Turbines (Offshore)
Concentrated Solar
Wave and Tidal
Methane Digesters (Large)
Biomass
Solar Water
In-Stream Hydro
Cogeneration
Methane Digesters (Small)
Waste-to-Energy
Micro Wind
Energy Storage (Distributed)
Energy Storage (Utilities)
Grid Flexibility
Microgrids

Women and Girls

Educating Girls
Family Planning
Women Smallholders

Transport

Electric Vehicles
Ships
Mass Transit
Trucks
Airplanes
Cars
Telepresence
High-speed Rail
Electric Bikes
Trains
Ridesharing

Building and Cities

District Heating
Insulation
LED Lighting (Household)
Heat Pumps
LED Lighting (Commercial)
Building Automation
Walkable Cities
Smart Thermostats
Landfill Methane
Bike Infrastructure
Smart Glass
Water Distribution
Green Roofs
Net Zero Buildings
Retrofitting

Summary of Drawdown Solutions By Overall Rank

This table provides the detailed results of the Plausible Scenario, which models the growth solutions on the Drawdown list based on a reasonable, but vigorous rate from 2020-2050.

1. Refrigerant Management	38. Forest Protection	73. Green Roofs
2. Wind Turbines (Onshore)	39. Indigenous Peoples' Land Management	74. Trains
3. Reduced Food Waste	40. Trucks	75. Ridesharing
4. Plant-Rich Diet	41. Solar Water	76. Micro Wind
5. Tropical Forests	42. Heat Pumps	77a. Energy Storage (Distributed)
6. Educating Girls	43. Airplanes	77b. Energy Storage (Utilities)
7. Family Planning	44. LED Lighting (Commercial)	77c. Grid Flexibility
8. Solar Farms	45. Building Automation	78. Microgrids
9. Silvopasture	46. Water Saving - Home	79. Net Zero Buildings
10. Rooftop Solar	47. Bioplastic	80. Retrofitting
11. Regenerative Agriculture	48. In-Stream Hydro	
12. Temperate Forests	49. Cars	Coming Attractions
13. Peatlands	50. Cogeneration	1. Repopulating the Mammoth Steppe
14. Tropical Staple Trees	51. Perennial Biomass	2. Pasture Cropping
15. Afforestation	52. Coastal Wetland	3. Enhanced Weathering of Minerals
16. Conservation Agriculture	53. System of Rice Intensification	4. Marine Permaculture
17. Tree Intercropping	54. Walkable Cities	5. Intensive Silvopasture
18. Geothermal	55. Household Recycling	6. Artificial Leaf
19. Managed Grazing	56. Industrial Recycling	7. Autonomous Vehicles
20. Nuclear	57. Smart Thermostats	8. Solid-State Wave Energy
21. Clean Cookstoves	58. Landfill Methane	9. Living Buildings
22. Wind Turbines (Offshore)	59. Bike Infrastructure	10. Direct Air Capture
23. Farmland Restoration	60. Composting	11. Hydrogen-Boron Fusion
24. Improved Rice Cultivation	61. Smart Glass	12. Smart Highways
25. Concentrated Solar	62. Women Smallholders	13. Hyperloop
26. Electric Vehicles	63. Telepresence	14. Microbial Farming
27. District Heating	64. Methane Digesters (Small)	15. Industrial Hemp
28. Multistrata Agroforestry	65. Nutrient Management	16. Perennial Crops
29. Wave and Tidal	66. High-speed Rail	17. A Cow Walks onto a Beach
30. Methane Digesters (Large)	67. Farmland Irrigation	18. Ocean Farming
31. Insulation	68. Waste-to-Energy	19. Smart Grids
32. Ships	69. Electric Bikes	20. Building with Wood
33. LED Lighting (Household)	70. Recycled Paper	
34. Biomass	71. Water Distribution	
35. Bamboo	72. Biochar	
36. Alternative Cement		
37. Mass Transit		