

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

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

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

Transport

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

Materials

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

Women and Girls

Educating Girls
Family Planning
Women Smallholders

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

<ol style="list-style-type: none"> 1. Refrigerant Management 2. Wind Turbines (Onshore) 3. Reduced Food Waste 4. Plant-Rich Diet 5. Tropical Forests 6. Educating Girls 7. Family Planning 8. Solar Farms 9. Silvopasture 10. Rooftop Solar 11. Regenerative Agriculture 12. Temperate Forests 13. Peatlands 14. Tropical Staple Trees 15. Afforestation 16. Conservation Agriculture 17. Tree Intercropping 18. Geothermal 19. Managed Grazing 20. Nuclear 21. Clean Cookstoves 22. Wind Turbines (Offshore) 23. Farmland Restoration 24. Improved Rice Cultivation 25. Concentrated Solar 26. Electric Vehicles 27. District Heating 28. Multistrata Agroforestry 29. Wave and Tidal 30. Methane Digesters (Large) 31. Insulation 32. Ships 33. LED Lighting (Household) 34. Biomass 35. Bamboo 36. Alternative Cement 37. Mass Transit 	<ol style="list-style-type: none"> 38. Forest Protection 39. Indigenous Peoples' Land Management 40. Trucks 41. Solar Water 42. Heat Pumps 43. Airplanes 44. LED Lighting (Commercial) 45. Building Automation 46. Water Saving - Home 47. Bioplastic 48. In-Stream Hydro 49. Cars 50. Cogeneration 51. Perennial Biomass 52. Coastal Wetland 53. System of Rice Intensification 54. Walkable Cities 55. Household Recycling 56. Industrial Recycling 57. Smart Thermostats 58. Landfill Methane 59. Bike Infrastructure 60. Composting 61. Smart Glass 62. Women Smallholders 63. Telepresence 64. Methane Digesters (Small) 65. Nutrient Management 66. High-speed Rail 67. Farmland Irrigation 68. Waste-to-Energy 69. Electric Bikes 70. Recycled Paper 71. Water Distribution 72. Biochar 	<ol style="list-style-type: none"> 73. Green Roofs 74. Trains 75. Ridesharing 76. Micro Wind 77a. Energy Storage (Distributed) 77b. Energy Storage (Utilities) 77c. Grid Flexibility 78. Microgrids 79. Net Zero Buildings 80. Retrofitting <p>Coming Attractions</p> <ol style="list-style-type: none"> 1. Repopulating the Mammoth Steppe 2. Pasture Cropping 3. Enhanced Weathering of Minerals 4. Marine Permaculture 5. Intensive Silvopasture 6. Artificial Leaf 7. Autonomous Vehicles 8. Solid-State Wave Energy 9. Living Buildings 10. Direct Air Capture 11. Hydrogen-Boron Fusion 12. Smart Highways 13. Hyperloop 14. Microbial Farming 15. Industrial Hemp 16. Perennial Crops 17. A Cow Walks onto a Beach 18. Ocean Farming 19. Smart Grids 20. Building with Wood
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