

CarbonX Program
2025 Top 50

Track	Organization Name	Project Name
Carbon Dioxide Removal (CDR)	Aircapture	Aircapture Lightswing: Modular Microwave Powered DAC Technology for Efficient CO ₂ Capture from the Atmosphere
	Andes	Microbial Carbon Mineralization in North Dakota's Agricultural Soils
	Applied Carbon	Project Terra: Mobile, Distributed Biochar Production from Agricultural Waste
	Carbon Lockdown	Kenyan Wood Vault Pilot Demonstrating Biomass Burial for Gigaton-Scale Carbon Removal
	Cella Mineral Storage	Kenya Pilot: Demonstrating Groundbreaking CO ₂ Injection Technology for Permanent Carbon Mineralization
	China University of Mining and Technology & Institute of Rock and Soil Mechanics, CAS	Full-chain CDR for CO ₂ Emission Mitigation Based on Modified Basalt and Diatomite Adsorbents
	China University of Petroleum (Beijing)	Geothermal-Coupled High Efficiency Fluidized Bed 1,000 tonne/yr DAC Project
	Clean Carbon (Beijing) Technology	Negative Emission Technology for Direct Mineralization of CO ₂ from Biomass Fermentation
	Flux	Project Sony: Accurate and Scalable Watershed Monitoring for Enhanced Rock Weathering
	Heirloom	Uno WILD: Next-Generation DAC Platform with Intelligent Automated Carbonation Management, Built to Reflect Scalable Deployment
	Mission Zero Technologies	Direct Air Mineralisation: A Modular Platform for Scalable, High-Integrity Carbon Removal and Circular Construction
	Nanjing University	BioChargeDAC: High-Efficiency Charged Biochar DAC Powered by Integrated Geothermal-Solar Energy
	Octavia Carbon	Geothermal-Integrated Solid Sorbent Direct Air Capture Technology
	Parallel Carbon	Project Tsavorite: Direct Air Capture and Green Hydrogen from Renewables in Kenya
	Peking University	Artificial Coral System for Carbon Sequestration
	PyroCCS	Driving Down Biochar Carbon Removal Cost through Integrated Bio-Oil Reforming for a High-Value Co-Product
	Tsinghua University	Flexible Solid-Liquid Dual-Loop Air Carbon Capture and Conversion Driven by Solar Energy
CCUS for the Steel Industry	Airovation Technologies	From Carbon to Calcium, Transforming Emissions into Value through Circular Mineralization
	Beijing Forestry University	Direct High-Temperature CO ₂ Capture from Biomass Steelmaking for Negative Carbon Emission
	City University of Hong Kong	HyCArk: Closed-Loop CO ₂ Valorization for the Steel Industry
	CO2Tech	Emission Reduction in Steel Production with Cost-effective, Modular and Compact CO ₂ Capture and Utilisation Solution
	Flemish Institute for Technology Research (VITO)	On-site Carbon Cycling for Steel Industry: Integrated Electrochemical CO ₂ Capture, Enrichment and Utilization (CYCO2STEEL)
	GREENORE	A Flue Gas Carbon Mineralization Technology Integrated with Iron & Steel Slag Valorization
	Helix Carbon	Electrochemical Blast Furnace Gas Recycling for Low-Emissions, Low-Cost Ironmaking
	Shanghai Advanced Research Institute, CAS	Large-scale Demonstration of Integrated CO ₂ Capture and Methanation (ICCM)
	Shanghai Jiao Tong University	Advanced CO ₂ Capture Integrated with Energy Storage System (ACCESS)
	University of Science and Technology Beijing & Institute of Process Engineering, CAS	Synergistic Negative Carbon Mine Backfilling of BFG-VPSA and Steel Slag Carbonization
Carbon Capture and Utilization (CarbonXmade)	Aerleum	Direct Carbon Utilization: a Novel Way to Convert Captured CO ₂ Directly into Methanol
	Carbon Cell	Scalable, Carbon-Negative, Bio-Based Foam for Insulation, Packaging, and Beyond
	CERT Systems	Direct CO ₂ Electrolysis to Drop-in Plastic Feedstocks
	Co-reactive	CO2CEM: Turning CO ₂ into High Performance Construction Materials
	Econic Technologies	Recreaire: Redefining CO ₂ for Surfactants
	Kyomei	Biotech-Enabled Production of Food Ingredients and Fertilizer from Wasted Agricultural Biomass
	Maple Materials	Transforming Industrial CO ₂ Emissions into Graphite and Oxygen
	OCOchem	Carbon Flux Electrolyzer for the Conversion of CO ₂ into Formate Chemicals
	Polynovo Biotech	Capture & Utilization of CO ₂ via Biosynthesis based on Straw Lignocellulose
	Seerstone Development	Game-Changing Clean CO ₂ Conversion to Carbon Materials for Tires & Steelmaking - The Noyes Process®
	Sichuan University	Production of High-Value Nano CaCO ₃ Applicable to Polymer Materials via CO ₂ Mineralization
	SolidSky	CODAH Platform: CO ₂ -Enabled Ethylene Synthesis
	SYNLIFE	Innovative Carbon-Negative PLA-Pigment Co-Production System
	The Hong Kong Polytechnic University	Marine Self-Healing Concrete with Biomineralization-Enhanced Construction Waste for Long-Term Decarbonization
	Ureaka	Enzyme-Induced Bioconcrete for Carbon-Negative Construction via CO ₂ Mineralization
Long Duration Energy Storage (LDES)	Aogawa Electrochemical Solutions	24-Hour Hydrogen Storage System with Wide-Temperature-Range Fuel Cell and High-Efficiency PEM Electrolyzer
	E-Fuel Energy Technology	High-Power-Density Vanadium Flow Battery for Long Duration Energy Storage
	Luquos Energy	Safe, Low-Cost and Eco-Friendly Sulfur-Based Flow Battery
	Quino Energy	Low-Cost, Long-Life Organic Flow Battery Demonstration Leveraging Commercial Hardware
	RKP International	Grid-Forming Long-Duration Energy Storage with Vanadium Flow Battery
	Shenzhen ZH Energy Storage Technology	High-Safety, Low-Cost Sulfur-Iron Flow Battery Long Duration Energy Storage Technology
	Zhejiang University & University of Oxford	Thermal Battery: A Long-Duration Energy Storage System for Achieving Multi-Energy Supply of Electricity, Cold and Heat
	Zhonghai Energy Storage Technology	The 500kW/5MWh Iron-Chromium Flow Battery Long-Duration Energy Storage Project on Himandhoo Island, Maldives

* Teams are listed in alphabetical order.