

**Voluntary Carbon Market Disclosures for CA Bill AB 1305**

July 24, 2024 - March 9, 2026

# X-Hazil

## Project Details

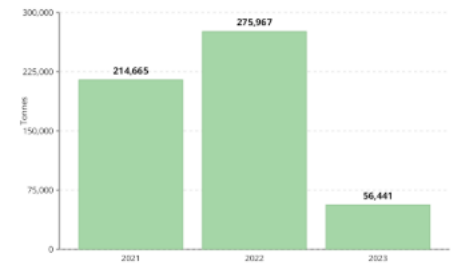
<b>Activity Types</b>	Improved Forest Management
<b>Impact Type</b>	Removal
<b>Oxford Category</b>	Nature-based Removals
<b>Developer</b>	THEEARTHLAB SA de CV
<b>Methodology</b>	CAR Mexico Forest Protocol V3.0
<b>Crediting Period</b>	2021 - 2121
<b>Purchased From</b>	CNaught Inc.
<b>Registry</b>	Climate Action Reserve ( <a href="#">CAR 1863</a> )
<b>Verifying Body</b>	ANCE



## Project Description

This project focuses on Improved Forest Management through strategic interventions in forest ecosystems. It aims to enhance sustainability by implementing regeneration practices that improve tree mass structure and maintain forest coverage. The project emphasizes maintaining the functional integrity of ecosystems while implementing silvicultural treatments and Forest Stewardship Council (FSC) monitoring protocols to ensure proper forest management.

## Credits by Vintage



## Risk of Reversal

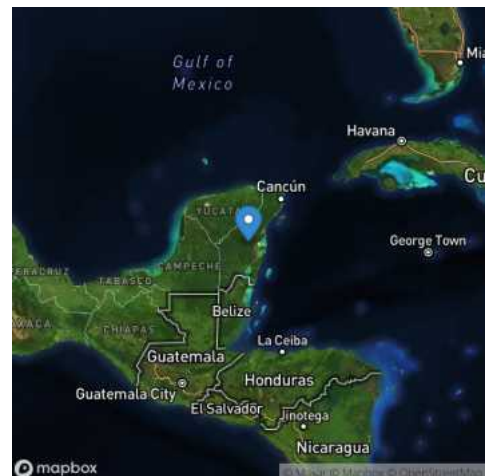
Nature-based projects like this one face some risk of reversal. Carbon storage may be affected by natural hazards such as wildfires, flooding, and escalating climate change impacts. Additionally, human-driven factors such as changes in land use or local governance structures can also impact carbon storage.

## Location

Yucatan Peninsula, Mexico

## Accountability Measures

A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.



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# Fuzhou Hongmiaoling Landfill Gas to Electricity

## Project Details

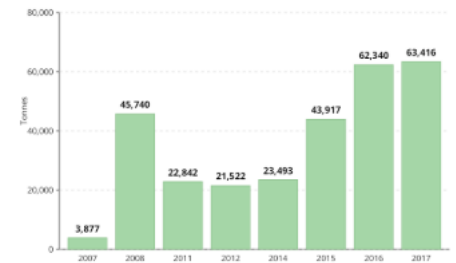
<b>Activity Types</b>	Landfill Gas Capture
<b>Impact Type</b>	Avoided Emissions
<b>Oxford Category</b>	Technology-based Reductions
<b>Developer</b>	Fujian Tianyi Renewable Energy Technology & Utilization Co., Ltd.
<b>Methodology</b>	ACM0001
<b>Crediting Period</b>	2007 - 2017
<b>Purchased From</b>	CNaught Inc.
<b>Registry</b>	Verra ( <a href="#">VCS 253</a> )
<b>Verifying Body</b>	Germanischer Lloyd Certification



## Project Description

This project supports collection of landfill gas and generation of 2.5MW of electricity at a landfill in Fuzhou City in Fujian Province in southeastern China. The landfill received waste from 1995 until 2008, and—like most landfills—throws off methane as some of that waste decomposes. Credits are generated from two pieces of the project: (1) avoiding the emissions of methane (a potent greenhouse gas) into the atmosphere and (2) using the power generated from the methane (natural gas) to displace dirtier coal-fired power coming from the electric grid. The project clearly required carbon revenues to achieve these two goals and therefore generates high-quality carbon offsets.

## Credits by Vintage



## Risk of Reversal

This project has no risk of reversal because its avoided emissions are not subject to being undone.

## Location

Fujian Province, China

## Accountability Measures

A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.



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# Titas Gas Leak Repair

## Project Details

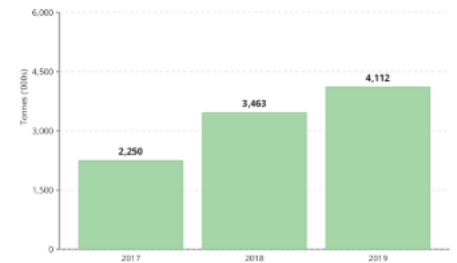
<b>Activity Types</b>	Fugitive Emissions Reduction
<b>Impact Type</b>	Avoided Emissions
<b>Oxford Category</b>	Technology-based Reductions
<b>Developer</b>	Titas Gas Transmission & Distribution Co.
<b>Methodology</b>	AM0023
<b>Crediting Period</b>	2017 - 2027
<b>Purchased From</b>	CNaught Inc.
<b>Registry</b>	Verra ( <a href="#">VCS 2478</a> )
<b>Verifying Body</b>	TUV SUD



## Project Description

Located in Greater Dhaka, Bangladesh, this project reduces natural gas leaks from a gas distribution network in Bangladesh through the use of an advanced leak detection and repair program. Natural gas is a potent greenhouse gas and the technology is available to detect and repair pipeline leakage. But, without carbon credit revenue, deploying that technology would not be economical (or otherwise required) in Bangladesh. Beyond being highly additional and conservative with its emission reduction calculations, this project also supports the safety and well-being of local communities by improving their access to a cleaner source of energy.

## Credits by Vintage



## Risk of Reversal

This project has little to no risk of reversal because its avoided emissions are not subject to being undone.

## Location

Greater Dhaka, Bangladesh

## Accountability Measures

A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.



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# Delta Blue Carbon

## Project Details

<b>Activity Types</b>	Reforestation, Wetland Restoration and Conservation
<b>Impact Type</b>	Removal
<b>Oxford Category</b>	Nature-based Removals
<b>Developer</b>	Government of Sindh, Forest Department & Indus Delta Capital Ltd.
<b>Methodology</b>	VM0033
<b>Crediting Period</b>	2015 - 2075
<b>Purchased From</b>	CNaught Inc.
<b>Registry</b>	Verra ( <a href="#">VCS 2250</a> )
<b>Verifying Body</b>	ICONTEC



## Project Description

The Delta Blue Carbon project seeks to restore degraded lands through large-scale mangrove reforestation on the Indus Delta in Pakistan. While the area was previously covered in mangroves, which sequester 3-5 times more CO2 per hectare than upland tropical forests, they largely disappeared by the 1980s. The project will ultimately plant mangroves on nearly 225,000 hectares of land and estimates that it will remove over 2.4 million tonnes of CO2e per year. This makes it the largest restoration program in the world. Despite inherent challenges involved in mangrove restoration projects, Delta Blue is also highly regarded, with Renoster stating that its "governance, design, and execution is well orchestrated and scientifically rigorous."

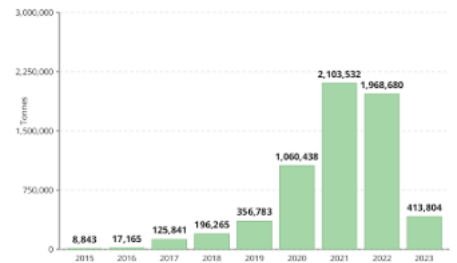
## Risk of Reversal

Nature-based projects like this one face some risk of reversal. Carbon storage may be affected by natural hazards such as wildfires, flooding, and escalating climate change impacts. Additionally, human-driven factors such as changes in land use or local governance structures can also impact carbon storage.

## Accountability Measures

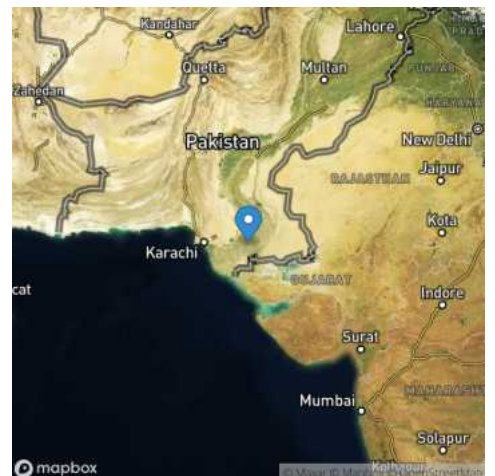
A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.

## Credits by Vintage



## Location

Sindh, Pakistan



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# CarbonCure 1

## Project Details

<b>Activity Types</b>	CO <sub>2</sub> in Concrete
<b>Impact Type</b>	Mix of Removals and Avoidance / Reduction
<b>Oxford Category</b>	Technology-based Reductions
<b>Developer</b>	CarbonCure
<b>Methodology</b>	VM0043 - Methodology for CO <sub>2</sub> Utilization in Concrete Production, Version 1
<b>Crediting Period</b>	2018 - 2025
<b>Purchased From</b>	CNaught Inc., Cloverly
<b>Registry</b>	Verra ( <a href="#">VCS 3207</a> )
<b>Verifying Body</b>	VCS Validation/Verification Body



## Project Description

This project captures waste CO<sub>2</sub> that would otherwise be emitted to the atmosphere and utilizes it as a feedstock in ready-mix concrete production, permanently mineralizing approximately 60% of the injected CO<sub>2</sub> into the concrete structure. The CarbonCure technology enables concrete producers to reduce their Portland cement usage while maintaining equivalent compressive strength, further reducing emissions since cement production accounts for about 8% of global CO<sub>2</sub> emissions. The project operates at 43 initial concrete manufacturing facilities across Georgia, North Carolina, and South Carolina, with plans to expand to additional U.S. locations as a grouped project.

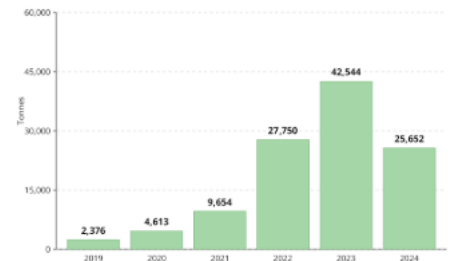
## Risk of Reversal

This project has no risk of reversal because its avoided emissions are not subject to being undone.

## Accountability Measures

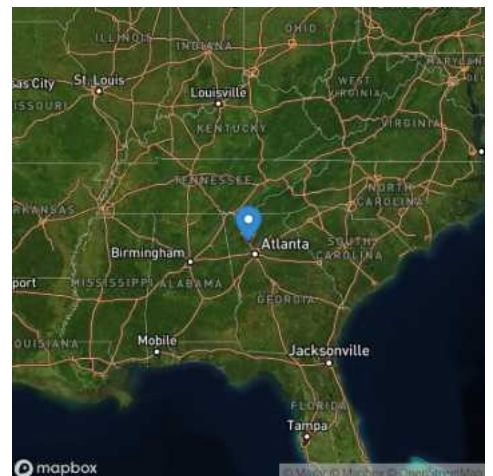
A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.

## Credits by Vintage



## Location

Georgia, U.S.



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# Charm Industrial Bio Oil

## Project Details

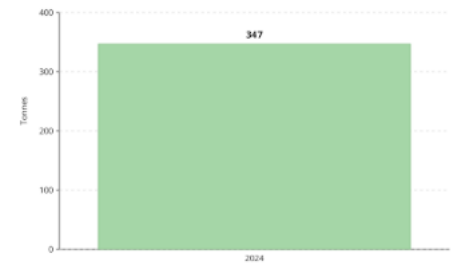
<b>Activity Types</b>	Bio-Oil Sequestration, Long-Lived Removals
<b>Impact Type</b>	Removal
<b>Oxford Category</b>	Technology-based Removals
<b>Developer</b>	Charm Industrial
<b>Methodology</b>	Charm
<b>Crediting Period</b>	2020 - 2025
<b>Purchased From</b>	CNaught Inc.
<b>Registry</b>	Isometric (ISO 7BDE)



## Project Description

Living plants, whether trees or agricultural crops, capture carbon dioxide from the atmosphere. However, after the plants die or the crops are harvested, the plants decompose and re-release that carbon. Charm collects plant waste, applies a heating process called pyrolysis that converts the plant waste into bio-oil, and injects that bio oil into deep wells or caverns where it hardens and will be stored permanently. Charm thereby makes the plants' temporary removal of carbon dioxide permanent. While its technology is promising, Charm currently charges \$600 per metric tonne of CO2e sequestered and is delivering only a small amount of carbon removal per year. CNaught supports companies like Charm to help send a market signal that will help innovative technologies like that developed by Charm can reach scale.

## Credits by Vintage



## Risk of Reversal

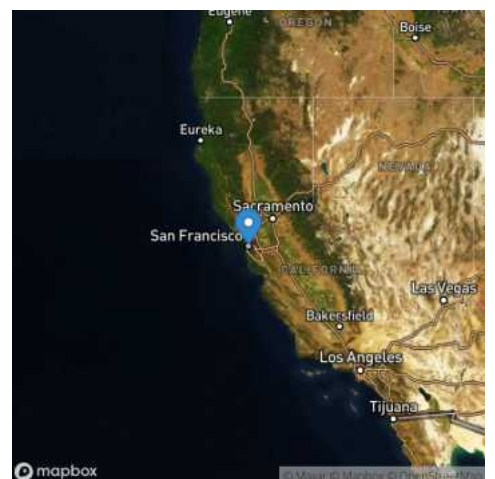
These projects face low risk of reversal because they are designed to store captured carbon for hundreds or even thousands of years. The primary risk of reversal comes from failure of the storage mechanism over the promised timeframe.

## Accountability Measures

A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.

## Location

San Francisco, California, United States



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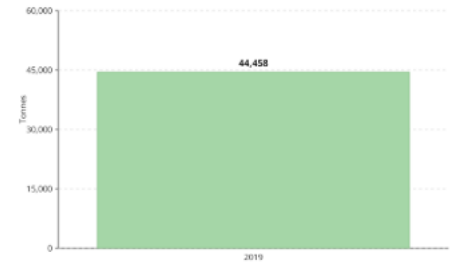
July 24, 2024 - March 9, 2026

# Advanced Refrigeration - ARS2019001

## Project Details

<b>Activity Types</b>	Fugitive Emissions Reduction
<b>Impact Type</b>	Avoided Emissions
<b>Developer</b>	Therm Solutions
<b>Methodology</b>	ACR - Advanced Refrigeration Systems (Version 2.1)
<b>Crediting Period</b>	2019 - 2029
<b>Purchased From</b>	Cloverly
<b>Registry</b>	ACR ( <a href="#">ACR 737</a> )
<b>Verifying Body</b>	First Environment

## Credits by Vintage



## Location

United States

## Project Description

Greenfield construction of CO2 Large Commercial Refrigeration systems at two locations.

## Risk of Reversal

This project has little to no risk of reversal because its avoided emissions are not subject to being undone.

## Accountability Measures

A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.

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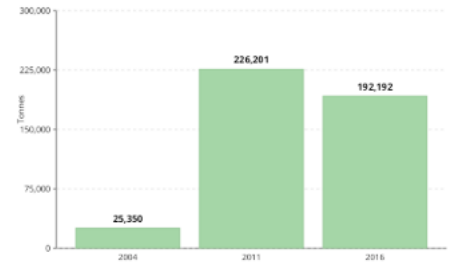
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# Bukaleba Forest Project

## Project Details

<b>Activity Types</b>	Avoided Conversion
<b>Impact Type</b>	Removal
<b>Developer</b>	Busoga Forestry (Subsidiary Green Resources)
<b>Methodology</b>	AR-ACM0001 Afforestation and reforestation of degraded land
<b>Crediting Period</b>	2004 - 2046
<b>Purchased From</b>	Cloverly
<b>Registry</b>	Verra ( <a href="#">VCS 799</a> )
<b>Verifying Body</b>	DNV

## Credits by Vintage



## Location

Uganda

## Project Description

The ARR project activity of the Bukaleba Forest Project (BFP) is implemented on land within the Bukaleba Central Forest Reserve (BCFR) in the administrative district of Mayuge, Eastern Uganda. The project activity will establish and manage exotic and indigenous reforestation on approximately 2,061 ha of degraded shrub and grassland.

## Accountability Measures

A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.

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# Buena Vista Heights Conservation Area

## Project Details

<b>Activity Types</b>	Improved Forest Management
<b>Impact Type</b>	Avoided Emissions
<b>Developer</b>	Allegheny Land Trust
<b>Methodology</b>	Preservation
<b>Crediting Period</b>	N/A
<b>Purchased From</b>	Cloverly
<b>Registry</b>	City Forest Credits ( <a href="#">CFC 9</a> )
<b>Verifying Body</b>	Ecofor

## Credits by Vintage



## Location

United States

## Project Description

Outside Pittsburgh, Allegheny Land Trust protected 124 acres of woodlands from rapid encroaching residential development in southeastern Allegheny County. The 40 year old maple, cherry and oak-hickory forest provides habitat for deer, turkey, and many species of birds. Hikers, birders, and mountain bikers will be able to explore the area, and possibly catch a glimpse of a majestic 200 year old oak tree. Protection of this forest also contributes to maintaining clean drinking water for Pittsburgh region's residents. Located within the lower Youghiogheny River Watershed, the property is five miles upstream from the confluence with the Monongahela River. Revenue generated from the sale of carbon credits will be put towards acquisition costs, land stewardship, and future expansion of this and other conservation lands.

## Risk of Reversal

Nature-based projects like this one face some risk of reversal. Carbon storage may be affected by natural hazards such as wildfires, flooding, and escalating climate change impacts. Additionally, human-driven factors such as changes in land use or local governance structures can also impact carbon storage.

## Accountability Measures

A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.

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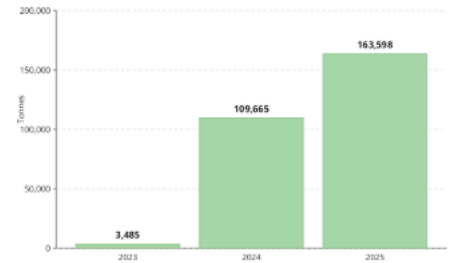
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# Carboneers SRC India

## Project Details

<b>Activity Types</b>	Biochar
<b>Impact Type</b>	Removal
<b>Developer</b>	Carboneers
<b>Methodology</b>	Global Artisan C-Sink
<b>Crediting Period</b>	2022 - 2026
<b>Purchased From</b>	Cloverly
<b>Registry</b>	Global C-Sink Registry ( <a href="#">GCSP1024</a> )

## Credits by Vintage



## Project Description

Carboneers SRC India collaborates with smallholder farmers in the Assam and Odisha states of India to produce biochar from agricultural waste using soil pit flame curtain pyrolysis, which is then mixed with compost or manure and applied to neighbouring fields. The project, certified under the Global Artisan C-Sink Standard, has the capacity to sequester 50,000 tons of CO2 annually, with each ton sequestered generating one carbon credit. The project will increase carbon sequestration by working the produced biochar into different matrixes and in this way create a long-term carbon storage with a persistence of over 1000 years as according to the Global Artisan C-Sink Standard. Without the project, no C-sink would be created since rice straw, cotton stalks, mustard stalks, corn cobs, and corn stalks do not constitute a long-term carbon reservoir and biochar production is no common practice in the area. In the initial 5 years of the project we expect long term, durable carbon sequestration of approximately 250,000 tons of CO2eq in total or 50,000 tons CO2eq / year on average.

## Location

India

## Risk of Reversal

Biochar faces low risk of reversal when applied in soil due to fire, flooding, or extreme drought. However, due to its highly stable carbon structure, high-quality biochar is considered to have a very low risk of reversal when used for carbon sequestration, with the potential to store carbon for centuries.

## Accountability Measures

A registry-managed buffer pool exists to safeguard against project reversals. If a carbon storage project is reversed, credits from the buffer pool compensate for the shortfall, preserving environmental integrity.