

# Opportunities for Carbon Offsets from Urban Forestry Projects



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## The Reserve: Background and History



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- Nonprofit organization founded as the California Climate Action Registry by state legislation in 2001
  - Encourage actions to reduce emissions
    - By developing protocols to track GHG emissions and reductions and having those emissions verified and publicly reported
- Renamed and expanded in 2008
  - Mission remains to encourage actions to reduce emissions



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## Organizational Objectives

- Ensure that emission reduction credits (offsets) have true environmental integrity
- Show that carbon offsets can be a useful tool in addressing climate change
- Provide a offset registry that is rigorous while streamlined and user-friendly
- Link voluntary carbon markets with emerging compliance markets (CA C&T, WCI, RGGI...)
- Provide expertise on offset standards and policy

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## Reserve Stats

CRTs registered	<b>24.4 million</b>
CARB-approved CRTs	<b>8.4 million</b>
CRTs retired	<b>3.7 million</b>
Projects submitted	<b>474</b>
<i>Registered</i>	<b>136</b>
U.S. States with Projects	<b>45</b>

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## Offsets for Compliance

- Compliance obligation can be fulfilled with a mix of allowances and offsets
- Up to 8% of compliance obligation can be fulfilled with offsets
  - Example: If a facility has emissions of 100,000 mtCO<sub>2</sub>e, then it can use up to 8,000 offsets for that period
- Offsets can only come projects under the four CARB-approved protocols
- Project must be submitted to and registered with a CARB-approved registry

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## California Offset Demand

Compliance Period	Year	Allowance Budget (mt CO <sub>2</sub> e)	Total Offset Demand
First (narrow scope)	2013	162,800,000	25,800,000
	2014	159,700,000	
Second (broad scope)	2015	394,500,000	91,784,000
	2016	382,400,000	
	2017	370,400,000	
Third	2018	358,300,000	83,104,000
	2019	346,300,000	
	2020	334,200,000	

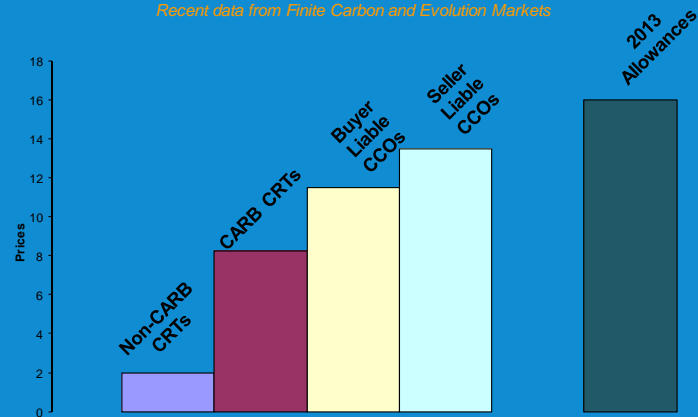
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## Market Pricing

Recent data from Finite Carbon and Evolution Markets



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## The Urban Forestry Protocol

- Urban Forestry Protocol
  - Adopted by CAR in August 2008
  - Adopted by CARB in October 2011
- But, it's the only one of the CARB-approved protocols with no projects
- Why?

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## Challenges with Urban Forestry Projects



- Cost: Can be \$70-\$100/tonne
- Long-term commitment: 100 years
- Project size:
  - Typical first year verification cost is \$8,000-15,000 for other project types.
  - 4,000 tonnes/year is a typical small scale offset project.
  - If 1000 trees generate ~60 CRTs/year, it requires ~66,000 trees minimum for a viable project.
- With a new project type, being the first one is always harder
  - Need someone willing to step up

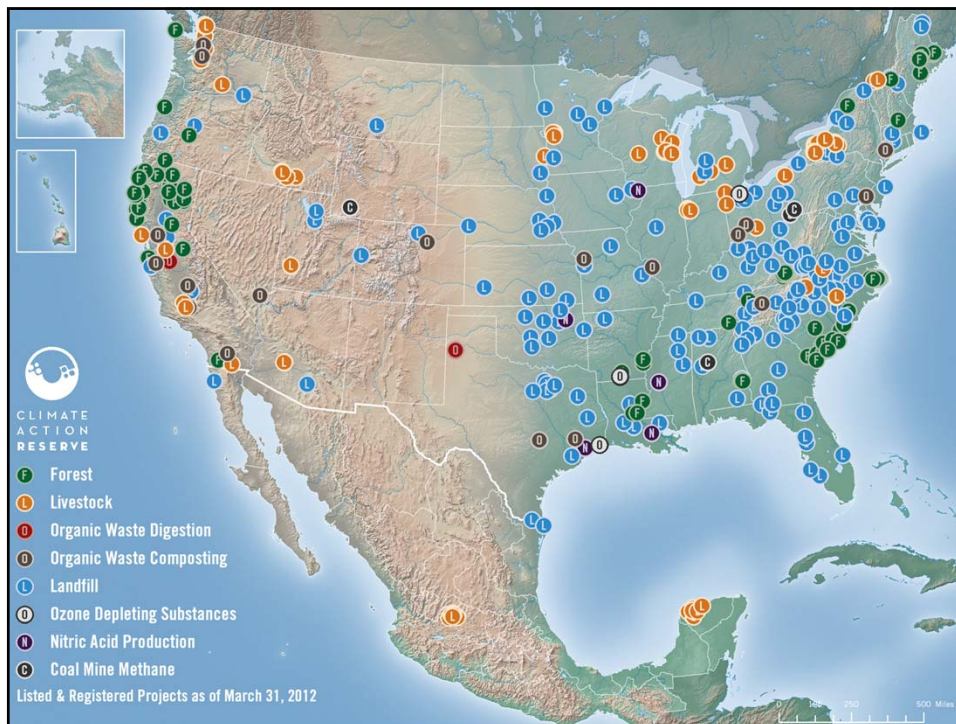
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## Key elements to a successful project



- LARGE scale
- Burning desire to be a leader and help advance the use of offsets to fund urban forestry—because the first few projects will be challenging
- Long-term vision for the urban forest, because of the long-term commitment involved
- Adequate funding, because the first projects are unlikely to pay their own way

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## Contact Information



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