Overview of the Climate Action Reserve

Webinar will begin shortly
For audio, please dial (215) 383-1016
Access code: 907-022-520

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Background on the Climate Action Reserve

• Chartered by state legislation in 2001
  – Mission is to encourage early voluntary actions to reduce emissions and to have such emissions reductions recognized
    • Initially focused on emission reporting and reductions by member organizations
    • Now on emission reduction projects generating offsets
  • Balances business, government, and environmental interests
Board of Directors

- British Columbia Climate Action Secretariat, Ministry of Environment
- California Environmental Protection Agency
- Duke University
- Environmental Defense Fund
- Exelon Corporation and Federal Energy Regulatory Commission (Retired)
- Metropolitan Water District of Southern California
- National Institute of Ecology (INE), Mexico
- Natural Resources Defense Council
- New Resource Bank
- NRG Energy
- Sacramento Municipal Utility District
- Shell Oil Company
Objectives of the Reserve

• Encourage actions to reduce greenhouse gas emissions
• Show that carbon offsets can be a useful tool in addressing climate change
• Model an offset program that has environmental integrity but is not burdensome to use
• Create value for the North American carbon market
  – For project developers: High value projects
  – For buyers: Confidence in offsets they are buying
• Provide technical resources on offset standards and policy
What We Do

1. Develop High Quality Standards
   – Convene stakeholders and lead development of standardized protocols for carbon offset projects

2. Manage Independent Third Party Verification
   – Training and oversight of independent verification bodies

3. Operate a Transparent Registry System
   – Maintain registry of approved projects
   – Issue and track serialized credits generated by projects
What makes the Reserve different?

Recognition

Recognized and Supported by:

• California Air Resources Board
• State of Pennsylvania
• Voluntary Carbon Standard (VCS)
• Leading environmental organizations:
  – Environment America
  – Natural Resources Defense Council (NRDC)
  – Environmental Defense Fund
  – Union of Concerned Scientists
  – Sierra Club
  – Wilderness Society
What makes the Reserve different?

Transparency

• Unparalleled transparency makes the Reserve unique

• Public reports include:
  – All protocols and associated documents
  – List of all account-holders
  – List of all projects and all project documents
  – List of all issued CRTs for every project
  – All retired CRTs
What makes the Reserve different?

Performance Standard

- Why a performance standard is different
  - The hard work is upfront
  - Assess industry practice as a whole, rather than individual project activities

- Less subjective determination to qualify
- More certainty in amount of credits
- Lower risk for developers and investors
- Faster project processing
What makes the Reserve different?

Scalability

• We have handled exponential growth in participation with only a handful of additional staff.
  – We still process submitted documents in two weeks
  – Performance standard: Once the standards are in place, not much staff time to review a project
  – Verification: 15 verification bodies and more going through ANSI program
  – Software: Very robust system, operated by APX

• We can continue to expand to meet compliance market needs
What makes the Reserve different?

Separation of Roles

• Is not affiliated with the State of California
• Reserve does not fund or develop projects
• Does not take ownership of offsets
• Is not an exchange
• Is a 501(c)3 not-for-profit organization
• Independent third-party verification
  – Consistent with international standards
  – Accreditation done by ANSI
  – Assiduous oversight of verifiers
What makes the Reserve different?

Connecting Markets

• CRTs are gaining favor in voluntary market today

• 4 protocols adopted for compliance use in CA, more expected this year

• Many buyers expect that projects will be usable for compliance Western Climate Initiative or in a national system

• Provides project developers with multiple options for selling their projects
Offset projects in the Reserve

- Listed
- Registered
- Cumulative CRTs Issued

Chart showing the growth of listed, registered, and cumulative CRTs issued from May 2008 to January 2011.
Reserve stats

CRTs registered 10.6 million

CRTs retired 1.6 million (15%)

Account holders 364

Projects submitted 386

New 114

Listed 195

Registered 77

U.S. States with Projects 44

Recent prices

~$10 per CRT for ARB-approved protocols

$2-5 per CRT for other protocols
Our Protocols

• Developed with broad public input

• Goal is to create a uniform standard that is widely recognized and builds on best practice
  – We incorporate the best elements of other protocols
  – We do not adopt protocols from other programs (i.e. CDM, Gold Standard, VCS, etc.)

• Designed as step-by-step instructions on project development
The Big 5 Tests

• **REAL**
  – It can be accurately measured.

• **ADDITIONAL**
  – Occurs outside of any regulatory requirement
    • Including outside capped sector
  – Would not have occurred but for the incentive provided by a GHG market.

• **VERIFIABLE**
  – It can be independently verified.

• **ENFORCEABLE**
  – Its ownership is undisputed.

• **PERMANENT**
Protocol Development Process

1. Literature review
2. Scoping/kick-off meeting
3. Multi-stakeholder workgroup formation
4. Draft protocol to workgroup
5. Revised draft released for public comment
6. Public workshop
7. Adoption by Reserve board in public session
   • It is unique for a non-profit Board to meet in public
Existing Protocols

- Forestry
  - Improved forest management
  - Avoided conversion
  - Reforestation
- Urban forestry
- Livestock methane capture (US & Mexico)
- Ozone Depleting Substances (US & Article 5 sources)
- Landfill gas capture (US & Mexico)
- Organic waste digestion
- Coal mine methane
- Nitric Acid Production
- Organic Waste Composting

ARB-approved
Protocols Under Consideration

**Agriculture and Biological Sequestration**
- Soil Conservation *
- Nutrient Management *
- Rice Cultivation *
- Tidal Wetlands Restoration
- Biochar

**Industrial Processes**
- Boiler Efficiency
- Natural Gas T&D Systems

**Transportation**
- Truck Stop Electrification

**International Expansion**
- Mexican Forestry *
- Canadian Protocols

* In-progress
Renewable Energy and Energy Efficiency Protocols

• No renewable energy protocol is planned
  – You may be able to generate RECs through other programs from methane destruction projects if you are generating electricity

• No electrical energy efficiency/green building protocols are planned
  – This is only for electricity. We are planning a natural gas efficiency protocol

• Why? Electricity is certain to be a capped sector under any GHG regulation
Steps to Register a Project

1. Open an account on the Reserve
2. Submit project for listing
   - Project submittal form and documents
3. Conduct project activities
4. Select verifier
   - Verifier submits conflict of interest form
5. Submit project documents, verification report and verification opinion
6. Project registered and CRTs issued
The Reserve process

1. Open an account
2. Submit project
3. Reduce emissions
4. Verify the reductions

Each reporting period

Registered CRTs issued

Hold, sell, or retire CRTs

The process for creating compliance offsets is not yet determined, but will be similar to our current process.
Verification

- Verification bodies (VBs) must get accredited to ISO standards by American National Standards Institute (ANSI)
- Lead Verifiers must take protocol-specific and general Reserve training
- Developer hires accredited and trained VB
  - VB makes determination as to the accuracy of reported CRTs
  - Project documents, verification report and verification opinion submitted to the Reserve
- VB submits NOVA/COI form and receives approval from Reserve to proceed
Transferring Credits

• Developer contracts to sell CRTs to a buyer
  – Financial transaction is outside of the system
  – Buyer must have an account on the system
• Developer instructs the system to transfer the CRTs into the buyer’s account
• Buyer can hold them, retire them or transfer them
• Financial transaction can be done through:
  – Broker
  – Exchange: CCFE or Green Exchange
  – Directly
  – Public auction
Fee Structure

• Account Maintenance: $500/year
• Project Listing: $500/project
• CRT Issuance: $0.20/tonne
• CRT Transfer: $0.03/tonne
• Retirement: Free
Website Demo

www.climateactionreserve.org
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