Aggregation in the Climate Action Reserve

Derik Broekhoff Vice President, Policy EPRI Offsets Workshop #12 March 15, 2012



CLIMATE ACTION RESERVE

Aggregation Objectives



Active & Passive Elements



• Active

 Agent ("aggregator") acts on behalf of projects to pool risk, reduce transaction costs

Passive

- Program designs rules to progressively lessen burdens on individual projects the more projects are enrolled
 - Within aggregates; or
 - Across whole program

Forest Protocol Aggregation



- Project Aggregate = multiple projects owned/managed by one or more forest owners
- All project types can participate in aggregates
- No upper limit on number of participating projects
- Each forest owner may cumulatively enroll up to 5,000 acres in aggregate(s)
- No single project may comprise more than 50% of total combined acreage in an aggregate
- Projects may choose to enter and leave aggregates at will

Quantification Benefits



5

 With more projects, fewer sample plots are needed per project to achieve the same level of (overall) confidence in carbon stock estimates

Number of Participating	Target Sampling Error*
Projects in the Aggregate	(TSE)
2	7%
3	8%
4	9%
5	10%
6	11%
7	12%
8	13%
9	14%
10	15%
11	16%
12	17%
13	18%
14	19%
15+	20%

* TSE applied to each project's carbon inventory

CRT Issuance & Ownership



- Projects must register individually and each forest owner must:
 - Separately sign PIA contract & attestation of title
 - Maintain an administrative account
- CRTs are issued to forest owners, but may only be transferred to third parties by the aggregator
- Aggregators may assist landowners in preparing documentation, but ultimate responsibility for meeting protocol requirements lies with landowners

CRT Issuance & Transfer

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Verification of Aggregates



- Aggregators must select verifiers and coordinate verification schedules
- All projects must have site visits at least once every 12 years
- Between site visits, forest owners must submit annual monitoring reports for each project
- Verifiers must annually audit a sample of monitoring reports
- Successful verification results in crediting of <u>all</u> projects in aggregate

Forest Aggregation Summary



Benefits

- Some shared administrative costs (document management)
- Reduced inventory costs (fewer sample plots) and/or smaller deductions for uncertainty with greater enrollment
- Reduced verification costs proportional to size of aggregates
- Limitations
 - All other protocol requirements must be met by each project, including permanence requirements

Rice Protocol Aggregation



- Project Aggregate = multiple fields owned/managed by one or more Project Participants
- Farmers can be their own aggregator
- Aggregates are unlimited in size
- Eligibility rules, start dates, & crediting periods associated with individual field, not the aggregate
- Fields have limited opportunity to switch aggregates



Quantification Benefits



- "Structural uncertainty" deduction is reduced in proportion to the number of fields enrolled *in the entire program*
- Risk of leakage deduction may be reduced in proportion to the number of fields *in an* aggregate

CRT Issuance & Ownership



- CRTs issued by the Reserve to the Aggregator
- Aggregator must attest to the Reserve that they have exclusive claim to the GHG reductions resulting from all fields in the project aggregate
 - Protocol does not dictate the terms for how title is established
 - Allows the aggregator, project participant and land owner (if separate from the project participant) flexibility

Verification of Aggregates



- Field Monitoring Reports required from all fields each verification/reporting period – submitted to aggregator.
- Verification activities occur on a random sample of fields
 - Some fields selected to receive site visits
 - Some fields selected for desk audits of field monitoring reports
 - The rest do not undergo verification activities for that reporting period
- Different sampling designs for different size categories:
 - Small aggregates (10 or fewer fields) somewhat more intensively sampled
 - For large aggregates, sample size is non-linear (larger aggregate, fewer samples proportionally)

Large multi-participant aggregates, sampling stratified by participants

14

Rice Aggregation Summary



Benefits

- Shared administrative costs (including account maintenance)
- Smaller deductions for uncertainty with greater enrollment, determined on a *programmatic basis*
- Reduced risk of leakage deductions
- Reduced verification costs proportional to size of aggregates

Limitations

- Additionality/baselines still determined on field-by-field basis
- Monitoring reports still required for every field
- Ownership of GHG reductions must be established by the aggregator contractually with each participant



The "Valley of Death"

Limited Aggregation (Project Based)

Integrated Aggregation (Sectoral)

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Limited Credit Volumes

Very Large Credit Volumes

16

Aggregation Challenges



- Is Enforceability the Achilles Heal?
 - Still need legal/contractual mechanisms to ensure ownership of GHG reductions
 - Same goes for compensation for reversals

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