

The Role of Forest Carbon Credits in Alaska's Forest Management and Carbon Reduction Strategies

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American Carbon Registry



- Founded in 1996 as first private voluntary GHG registry
 - Subsidiary of Winrock International
- Operates in compliance and voluntary carbon markets
 - 2012 Approved California Offset Project Registry
 - 2020 Approved by ICAO to supply offsets for airline industry
 - 2023 Approved Washington State Offset Project Registry
- >250 years of collective market experience
 - Forestry team consisting of six (3 PhD and 3 MS) technical and policy experts
 - 70+ Compliance forestry and >130 Voluntary forestry projects registered

The carbon market



- Rapid decarbonization and offsetting of residual emissions
- Voluntary 2,000+ companies have engaged & \$2 billion industry
 - Paris Agreement commitments
 - Corporate action and environmental consciousness
- Compliance
 - Cap & Trade "Cap" sources, "trade" allowances and offsets
 - e.g., State of California; State of Washington
 - Industry regulation
 - e.g., ICAO (International civil aviation organization)





RIVING AMBITIOUS CORPORATE CLIMATE ACTIO







Nature-Based Solutions

Improved Forest Management

- Extended rotation lengths
- Commitment to increase C stocks

<u>Afforestation /</u> <u>Reforestation</u>

- Planting of marginal or degraded lands
- Credits for forest accrual



Avoided Conversion

- Avoided conversion of forest to nonforest (e.g., Ag., mining, residential, etc.)
- Conservation easement & appraisal HBU

Carbon credits incentivize climate action, and attach a monetary value to forest conservation, ecosystem benefits, and amenity values. Provide important contributions to climate change

ACR land sector portfolio



Methodologies (16)

- 3 IFM methodologies
- Afforestation/Reforestation
- Avoided conversion
 of grass/shrubland
- 2 wetland methodologies
 In development
- Avoided conversion of forestland

Projects

IFM: 180+ Reforestation: 6 ACoGs: 1 CA wetlands: 2 SE wetlands (pocosins): 1

Land ownership classes

- Industrial (TIMO, private)
- Land trusts/conservation orgs
- \circ Clubs
- Universities
- Municipal and state land
- o NIPFs
- o Tribes



Forest Credits Issued

Project Development Process



Phase	Considerations
Project Feasibility	 Eligibility & costs Commitment period Potential buyers
Monitoring / Reporting	Establish / maintaining inventoryQuantifying & reporting
Validation / Verification	 Validation = Confirmation of eligibility Verification = Confirmation of C claims (site and desk-based)
Credit Issuance	 Serialized carbon offsets Tracked and retired in ACR's secure registry platform

Additionality



- What would happen in the absence of the project?
- 3-pronged additionality test:
 - Regulatory surplus
 - Common practice
 - Faces implementation barriers (typically financial, but could be technological or institutional)

IFM project example



Baseline: the counterfactual or business as usual scenario that could have occurred within the project area in the absence of the carbon project. Validity of baseline must be demonstrated to ACR and a verifier.



Time

Permanence



	ACR requirements
Permanence	 40-year commitment to retain and increase C stocks Must monitor, report, and verify periodically
Risk mitigation	 Buffer contribution of ERTs Wildfire, flood, insect/disease, wind events, acts of god
Unintentional reversals	 Buffer contributions & retirement (if needed)
Intentional reversals	 Project Proponent to replace issued ERTs

Quantification



	ACR requirements
Quantified carbon benefit (QCB)	 CO2 stock difference between 'project' and 'baseline'
Gross ERT's	 QCB - minus uncertainty, minus leakage
Buffer contribution	 Gross ERT's * buffer contribution (%) Typically ~ 18%
Net ERT's	 Gross – buffer = Credits issued to project

3rd party verification



- Key step for reputable carbon offsets
- Site-visit verifications at least every 5 years
 - May verify more frequently with desk-based verifications
- Quantification checks & materiality
- Successful verification and ACR review leads to serialized offset issuance
 - Registry tracks through retirement

The role of registries



To safeguard the environmental and financial integrity of the carbon market



California Cap & Trade





Forest project type distribution



Forestry issuance by registry



https://ww2.arb.ca.gov/our-work/programs/compliance-offset-program/arb-offset-credit-issuance



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ACR AFOLU project distribution

Other relevant stats



12 State/County/Municipal projects

- 16 Alaskan projects
- 27 Tribal/ANC projects

Alaska issuance volumes (34% of total; ACR & ARB)



Thank you!!

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