The Carbon Credit Quality Initiative Transparent Scores for Carbon

Expanded Scores Launch

Credit Quality

31 January 2023









Today's Speakers



Senior Program Officer, Climate Cooperation and Sustainable Fuels World Wildlife Fund, US



Pedro Martins Barata

Associate Vice President, Carbon Markets and Private Sector Decarbonization Environmental Defense Fund



Dr. Lambert Schneider

Research Coordinator for International Climate Policy Oeko-Institut Agenda



1 About CCQI

2 Our Approach

3 Key Findings

4 Next Steps

5 Q&A



About the Carbon Credit Quality Initiative

Pedro Martins Barata, Environmental Defense Fund

Our Mission: Enhance the Quality of Carbon Credits

Carbon Credit Quality Initiative (CCQI) provides transparent information on the quality of carbon credits. This enables users to identify carbon credits that deliver higher climate mitigation impacts and offer greater social and environmental benefits—and enhance the quality of carbon credits in the market.



What is the Carbon Credit Quality Initiative?



What makes this initiative unique?





CCQI Project Team









What does CCQI assess?

CCQI publishes scores for *carbon credit types*, as defined by their underlying features:

- Type of project (e.g., landfill gas utilization)
- Carbon crediting program (e.g., Verified Carbon Standard)
- Quantification methodology (e.g., CDM ACM0001)
- Host country...and more

► CCQI does not release or endorse scores for individual projects, but...

• Our assessment method is public and can be applied to individual projects

Current Scope of Assessments



| Carbon Crediting Programs | | Project Types | | |
|---|--|-------------------------------------|----------------------------|------------------------------|
| Cold S Registry WINDOCKITERATIONAL Verified Carbon Standard A Verra Standard | Standard CLIMATE ACTION RESERVE | Establishment of Natural Forests | | Efficient Cookstoves |
| Complementary Standards | 23 Quantification Methodologies | Gas pipeline leak repair | Solar Photovoltaic | ۲ Wind Power (onshore) |
| Climate, Community & Biodiversity Standards | 10 Host Country NDCs | | | |
| SD VISta | Pre + Post Paris Vintages | Household Biodigesters | Industrial Biodigesters | Recovery of Oil Field Gas |



Our Assessments





How can CCQI's scores be used?

Our scores represent the expected quality for a type of carbon credit. Additional due diligence on individual projects is encouraged.

Buyers Due diligence to understand potential risks associated with different types of carbon credits



program's rules

Inform how to design a project to avoid specific risks, and how to choose programs and methodologies with higher quality assurance

project Developers

Tools & Resources

Interactive scoring tool

- Downloadable Excel scoring tool
- Full methodology
- Assessment sheets

Visit us at

www.carboncreditquality.org



HOME SCORINGTOOL METHODOLOGY RESOURCES MEDIA FAQ

The Carbon Credit Quality Initiative

Transparent Scores for Carbon Credit Quality

EXPLORE OUR SCORING TOOL

Our Approach to Scoring Carbon Credit Quality

Lambert Schneider, Oeko-Institut



Seven Quality Objectives

| Quality Objectives | Robust Determination of GHG Emissions Impact | Avoiding Double Counting | Addressing Non- Permanence |
|--|---|-------------------------------------|-------------------------------|
| Facilitating Transition towards Net Zero Emissions | Strong Institutional Arrangements and Processes | Environmental and Social Impacts | Host Country Ambition |

Our Scoring Approach

Confidence or likelihood that the assessment subject meets the criterion or quality objective:









Key Findings

Lambert Schneider, Oeko-Institut

Key Findings Questions we set out to answer

1. What is the quality of credits currently available in the market?

2. What are the differences between project types?

3. How differently or similarly do programs score?

4. What can buyers do with this information?

Quality objective 1: Robust determination of GHG emission impact Additionality and Quantification



Note: This slides has been updated compared to the version presented online on 31 January 2023. This revised slide shows only MAX scores in cases where the results significantly differ among methodologies and carbon crediting programs.

Criterion 1.1: Additionality Do Carbon Credits Make a Difference Financially?



The contribution of carbon credits to financial attractiveness strongly varies among project types.

Counting Carbon: Methodologies Deep-dive

•

AM0009 v7

CDM Recovery of Oil Field Gas

Risk of overestimation

- Neglecting fugitive emissions
- Lack of provisions limiting gas-liftgas production

Potential for underestimation

- Assumption that recovered gas replaces methane
- Neglecting emissions from venting and methane slip from baseline
- Upstream emissions not considered in baseline
- Requirement to account recovered gas as project emissions

Overall conclusion

High likelihood of conservativeness

Risk of overestimation

- Fraction of non-renewable biomass
- Omission of several sources
- Methane leakage inappropriately considered

Potential for underestimation

• Upstream emissions not considered in baseline

Overall conclusion

Emission reductions very likely to be (significantly) overestimated

Project v2 Landfil

Landfill

ACR Landfill Gas Utilization

Risk of overestimation

- Oxidation factor lower than observed in literature
- Risk of perverse incentives

Potential for underestimation

• Neglecting emissions for displacement of fossil fuel use

Element with unknown impact

• Estimation of emissions from any pre-project devices

Overall conclusion

Emission reductions likely accurate but associated with significant uncertainty

Criterion 1.3.2: Robustness of quantification methodologies Counting Carbon: Methodologies Must Improve

Many methodologies either overestimate emissions reductions, or there is large uncertainty.

Criterion 1.3.2: Robustness of quantification methodologies Counting Carbon: Methodologies Must Improve

Overview of scores for methodologies assessed to date 賽 * 1 Efficient Origin Establishment Industrial Solar Landfill Gas **Recovery of** Household Wind Power Gas pipeline Cookstoves **Biodigesters** of Natural **Photovoltaic Biodigesters** Utilization leak repair **Oil Field Gas** (onshore) (rural) Forests A/R ACR Landfill Project Methodology **U.S. Livestock** Forest CAR U.S. Landfill Protocol Mexico Livestock AMS-I.C ACM0010 ACM0002 ACM0002 ACM0001 CDM AMS-II.G **AR ACM0003** AM0009 AM0023 AMS-I.E AMS-III.D AMS-III.G AMS-I.D AMS-I.D TPDDTEC A/R GS **GS-ACM0010 TPDDTEC** Methodology AMB

CCQI Scores

23

Indicator 3.2.1.1: Time horizon for monitoring reversals Required Minimum Periods for Addressing Reversals

* Depending on crediting period, methodology and/or credit vintage

Criterion 6.1: Program's environmental and social safeguards Environmental and Social Safeguards

Complementary standards boost scores for programs' environmental and social safeguards

Key Findings What Do These Results Mean?

► There is a real problem

- Credit types have different strengths and weaknesses but none do everything well
- Good performance in one area cannot make up for bad performance in another
- Likelihood of overestimating climate impact unacceptably high
- Quality differs considerably among project types and programs

It's possible to do better

- Crediting programs can fix most weaknesses identified in these assessments
- Picking the best approaches from each program would significantly improve quality
- Crediting programs can learn from each other

Key Findings What Can Buyers Do With This Information?

- Identify credit types with comparatively lower integrity risks
- Understand and manage specific risks of credit types
 - Use scores in your project-level due diligence to identify high risk area
 - Individual projects may outperform our scores in some areas
- ▶ Which credits types to buy may depend on your priorities and how you use them
 - Are you looking to support projects that align with your values?
 - Are you looking to claim emissions reductions or financial contributions?
 - How do you communicate about the use of the credits?

Next Steps

John Holler, World Wildlife Fund, US

What's next for CCQI?

Maximize market coverage

► Assess 4 new project types:

- Hydropower
- Project-based REDD+
- Improved forest management
- Commercial afforestation

What's next for CCQI?

Simplified project type profiles for actionable due diligence

Regular insights on our blog

Data visualizations

We want to hear from you:

What do you want to see from CCQI? How do we make this more accessible? What questions do you have?

Questions?

Thank you!

Website: <u>www.carboncreditquality.org</u>

Contact:

carboncreditqualityinitiative@gmail.com

