

# The Carbon Credit Quality Initiative

## Transparent Scores for Carbon Credit Quality

Expanded Scores Launch

31 January 2023



**CCQI**  
Carbon Credit  
Quality Initiative

# Today's Speakers



**John Holler**

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



The background is an aerial photograph of a wind farm situated in a lush green forest. Several wind turbines are visible, their blades extending across the landscape. Overlaid on the right side of the image are several white-outlined hexagons. Some of these hexagons have colored triangular sections: one has a yellow triangle at the top, another has a teal triangle on the right, and a third has a teal triangle on the left. The overall color palette is dominated by greens, with accents of yellow and teal.

# 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?



## Why?

- ▶ Carbon markets are facing a resurgence
- ▶ Mixed quality of carbon credits currently transacted
- ▶ Buyers face reputational risks if emissions reductions are not credible

## What?

- ▶ Enhance the integrity of carbon credits
- ▶ Encourage carbon crediting programs, project developers and other market participants to pursue the highest standards


## How?

- ▶ Independent, user-friendly scorings to assess the quality of carbon credits


## For whom?

- ▶ Countries, companies, investors, and individuals


# What makes this initiative unique?




Not funded by  
revenues related to  
carbon credits




Experts not employed  
by project developers  
or carbon crediting  
programs



Scoring of credits on  
an interval scale, not  
on a binary basis



Transparent, publicly-  
available methodology  
and assessment  
documents



All scores free-of-  
charge

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

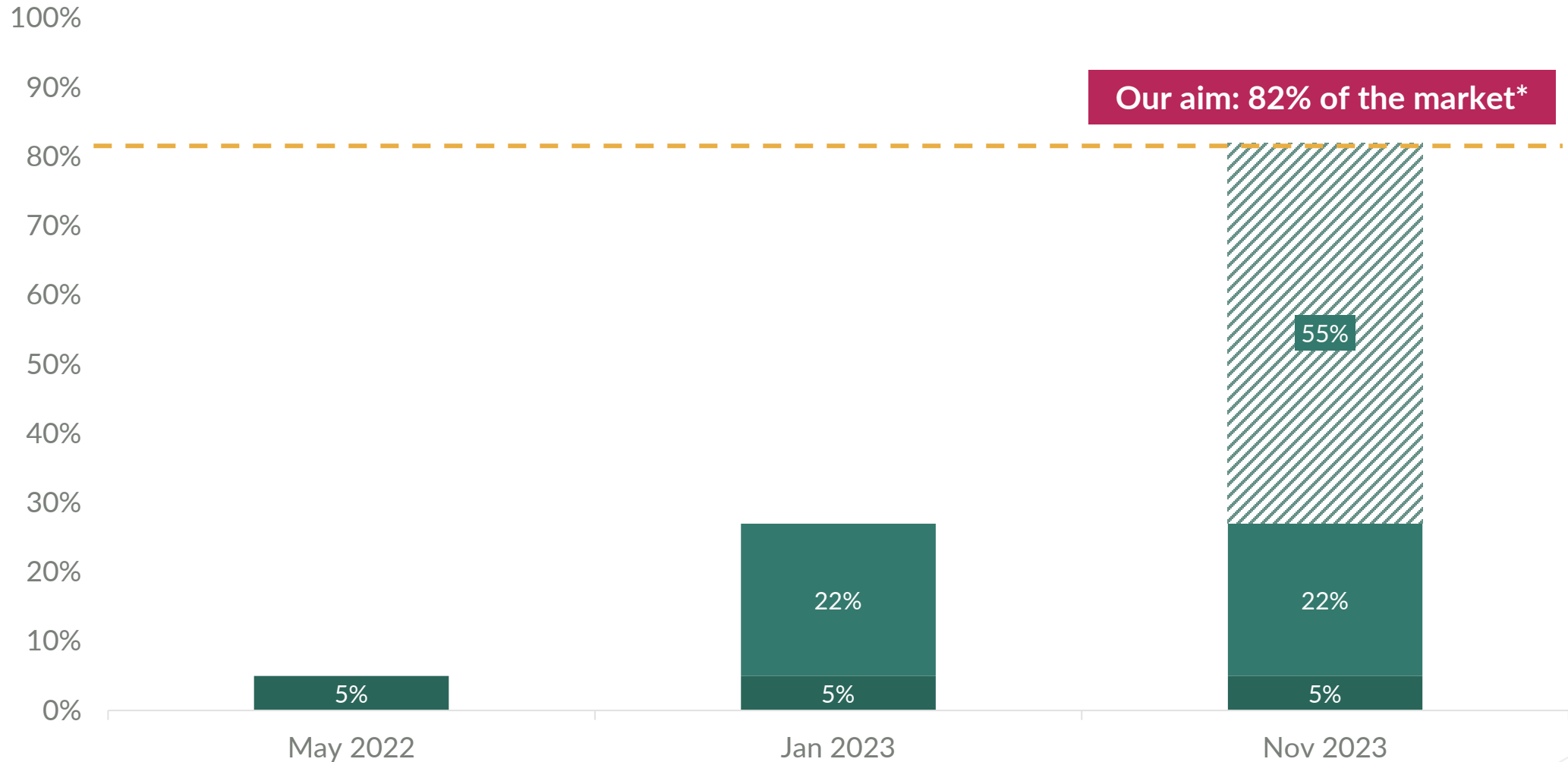




# Current Scope of Assessments

Carbon Crediting Programs		Project Types		
     		 <b>Establishment of Natural Forests</b>	 <b>Landfill Gas Utilization</b>	 <b>Efficient Cookstoves</b>
<b>Complementary Standards</b>	<b>23 Quantification Methodologies</b>	 <b>Gas pipeline leak repair</b>	 <b>Solar Photovoltaic</b>	 <b>Wind Power (onshore)</b>
 <b>Climate, Community &amp; Biodiversity Standards</b>	<b>10 Host Country NDCs</b>	 <b>Household Biodigesters</b>	 <b>Industrial Biodigesters</b>	 <b>Recovery of Oil Field Gas</b>
 <b>SD VISTa</b>	<b>Pre + Post Paris Vintages</b>			

# 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

**Carbon Crediting Programs**

Identify opportunities to improve a program's rules

**Project Developers**

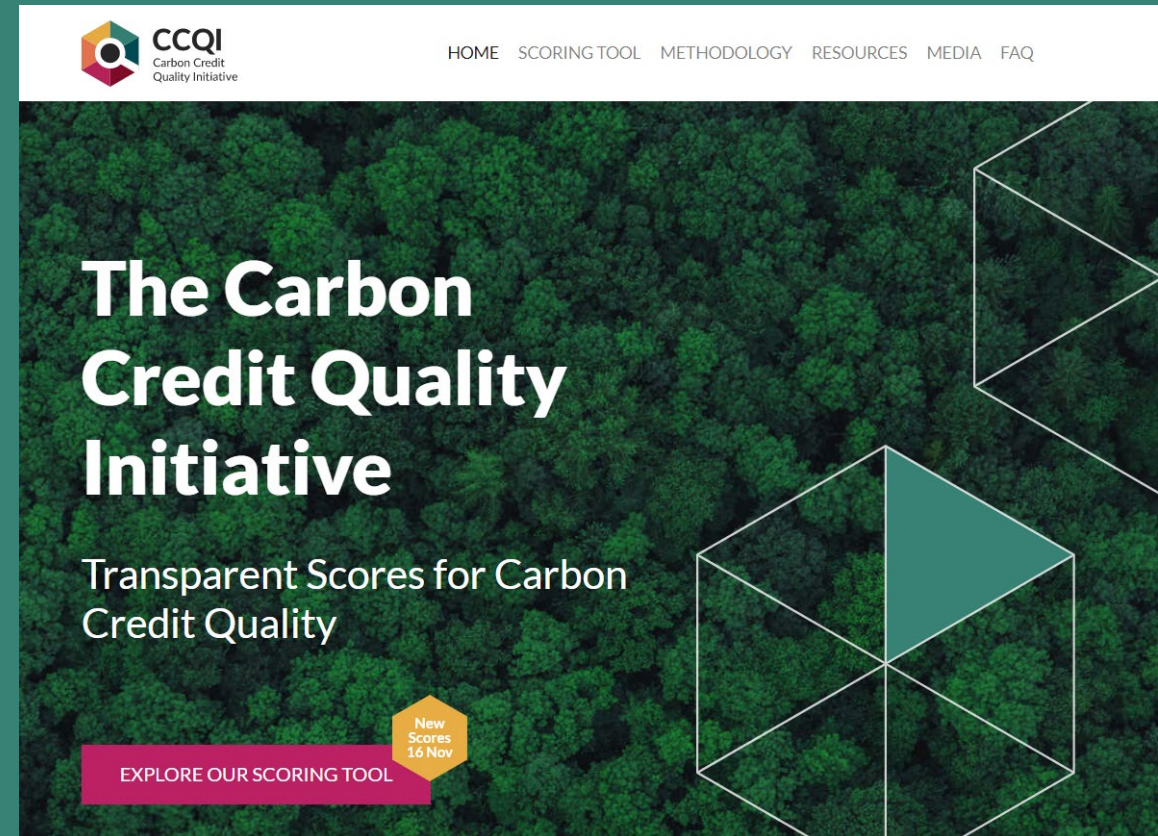
Inform how to design a project to avoid specific risks, and how to choose programs and methodologies with higher quality assurance

# Tools & Resources

- ▶ **Interactive scoring tool**
- ▶ **Downloadable Excel scoring tool**
- ▶ **Full methodology**
- ▶ **Assessment sheets**

Visit us at

[www.carboncreditquality.org](http://www.carboncreditquality.org)



The screenshot shows the homepage of the Carbon Credit Quality Initiative website. The background is a dense green forest. The CCQI logo is in the top left, and a navigation menu is in the top right. The main heading is 'The Carbon Credit Quality Initiative' in large white text. Below it is the subtitle 'Transparent Scores for Carbon Credit Quality'. A pink button at the bottom left says 'EXPLORE OUR SCORING TOOL'. A yellow hexagon at the bottom right says 'New Scores 16 Nov'. The page is decorated with white geometric shapes on the right side.

**CCQI**  
Carbon Credit  
Quality Initiative

HOME SCORING TOOL METHODOLOGY RESOURCES MEDIA FAQ

# The Carbon Credit Quality Initiative

Transparent Scores for Carbon  
Credit Quality

EXPLORE OUR SCORING TOOL

New  
Scores  
16 Nov

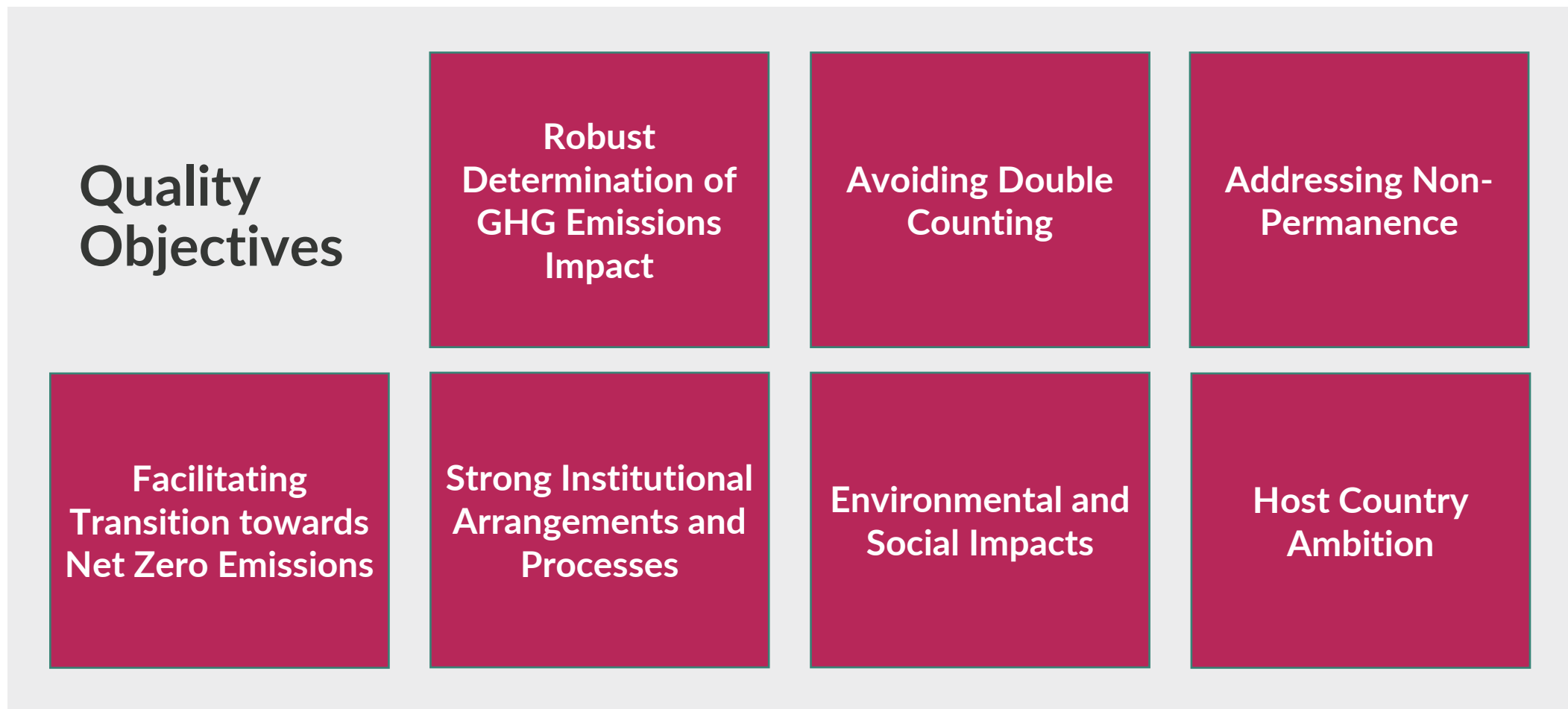
The background is an aerial photograph of a lush green forest. Several white wind turbines are visible, their towers and blades extending across the landscape. Overlaid on the right side of the image are several white-outlined hexagons. Some of these hexagons have one or more triangular sections filled with solid colors: a dark teal, a lighter teal, and a bright yellow. The overall aesthetic is clean and modern, with a focus on nature and renewable energy.

# Our Approach to Scoring Carbon Credit Quality

Lambert Schneider, Oeko-Institut



# Seven Quality Objectives



# Our Scoring Approach

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

Very High	5
High	4
Moderate	3
Low	2
Very Low	1



# Example of How Scores Are Built

Quality Objective	Criteria	Sub-Criteria		
<p style="text-align: center;"><b>3</b></p> <p style="text-align: center;"><b>Robust Determination of the GHG Emissions Impact</b></p>	<p style="text-align: center;"><b>4</b> Additionality</p> <p style="text-align: center;">N/A Vulnerability</p> <p style="text-align: center;"><b>3</b> Robust Quantification</p>	<p style="text-align: center;"><b>5</b> Legal requirements</p> <p style="text-align: center;">N/A Barriers</p> <p style="text-align: center;"><b>3</b> Robust methodology</p>	<p style="text-align: center;"><b>4</b> Financial attractiveness</p> <p style="text-align: center;">N/A Vulnerability</p> <p style="text-align: center;"><b>3</b> Program principles</p>	<p style="text-align: center;"><b>2</b> Prior consideration</p>



The background is an aerial photograph of a lush green forest. Several wind turbines are visible, their towers and blades extending across the landscape. Overlaid on the right side of the image are several white-outlined hexagons. Some of these hexagons have one or more triangular sections filled with solid colors: a dark teal, a lighter teal, and a bright orange. The overall aesthetic is clean and modern, with a focus on nature and renewable energy.

# Key Findings

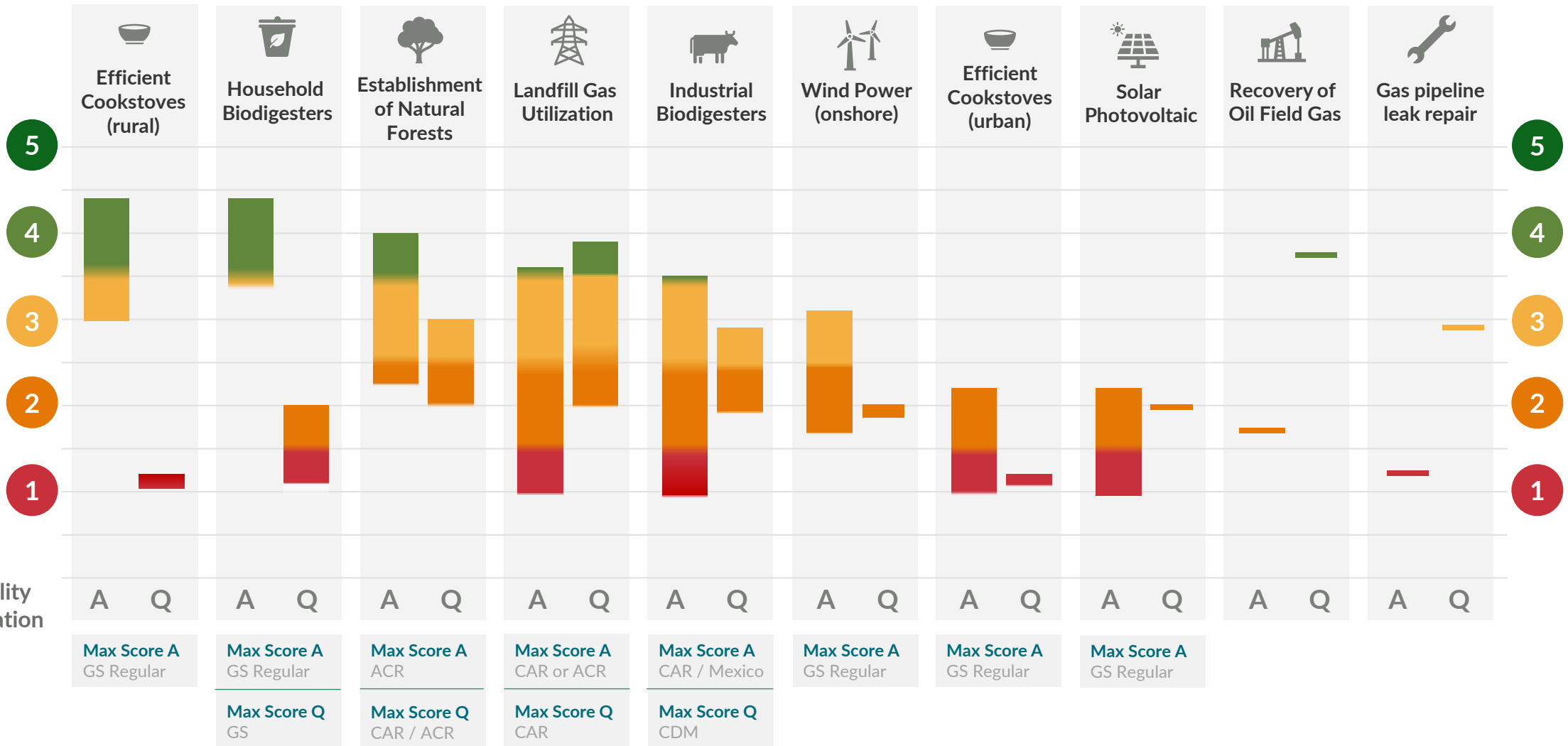
Lambert Schneider, Oeko-Institut

# 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

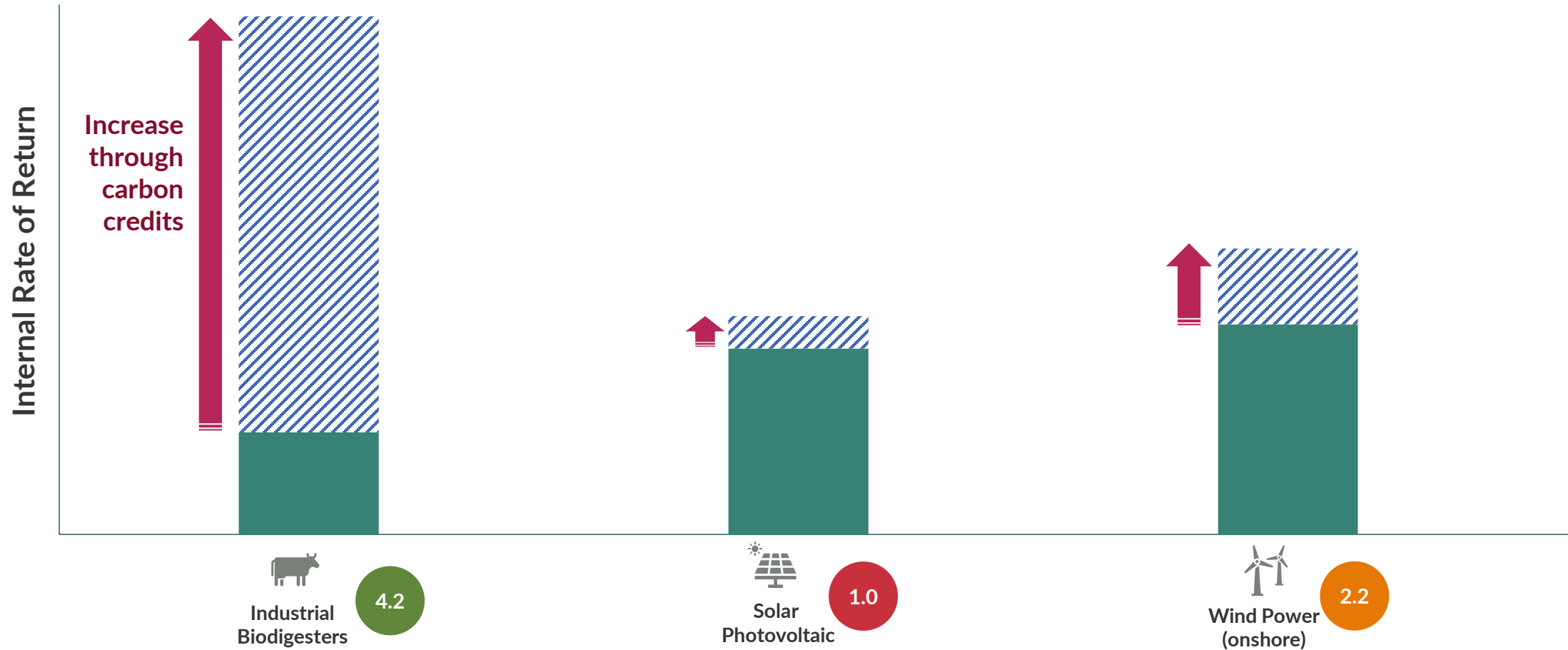
# Additionality and Quantification



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

4

AM0009 v7 CDM  
Recovery of Oil Field Gas

**Risk of overestimation**

- Neglecting fugitive emissions
- Lack of provisions limiting gas-lift-gas 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

1 2

ABM v1 GS  
Household Biogas

**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

3

Landfill Project v2 ACR  
Landfill Gas Utilization

**Risk of overestimation**

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

**Potential for underestimation**

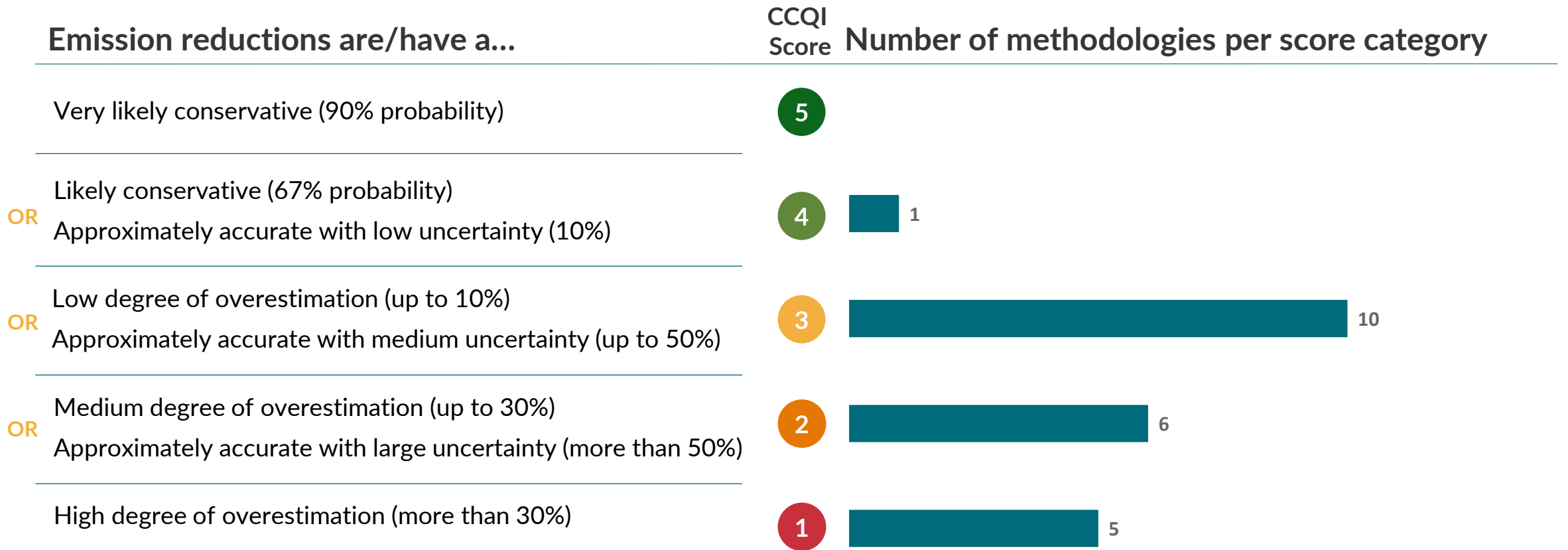
- Neglecting emissions for displacement of fossil fuel use

**Element with unknown impact**

- Estimation of emissions from any pre-project devices

**Overall conclusion**  
Emission reductions likely accurate but associated with significant uncertainty

# Counting Carbon: Methodologies Must Improve












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

Note: The methodologies TPDDTEC and AMB encompass two different approaches which result in two different scores. The graph includes the respective lower ones.

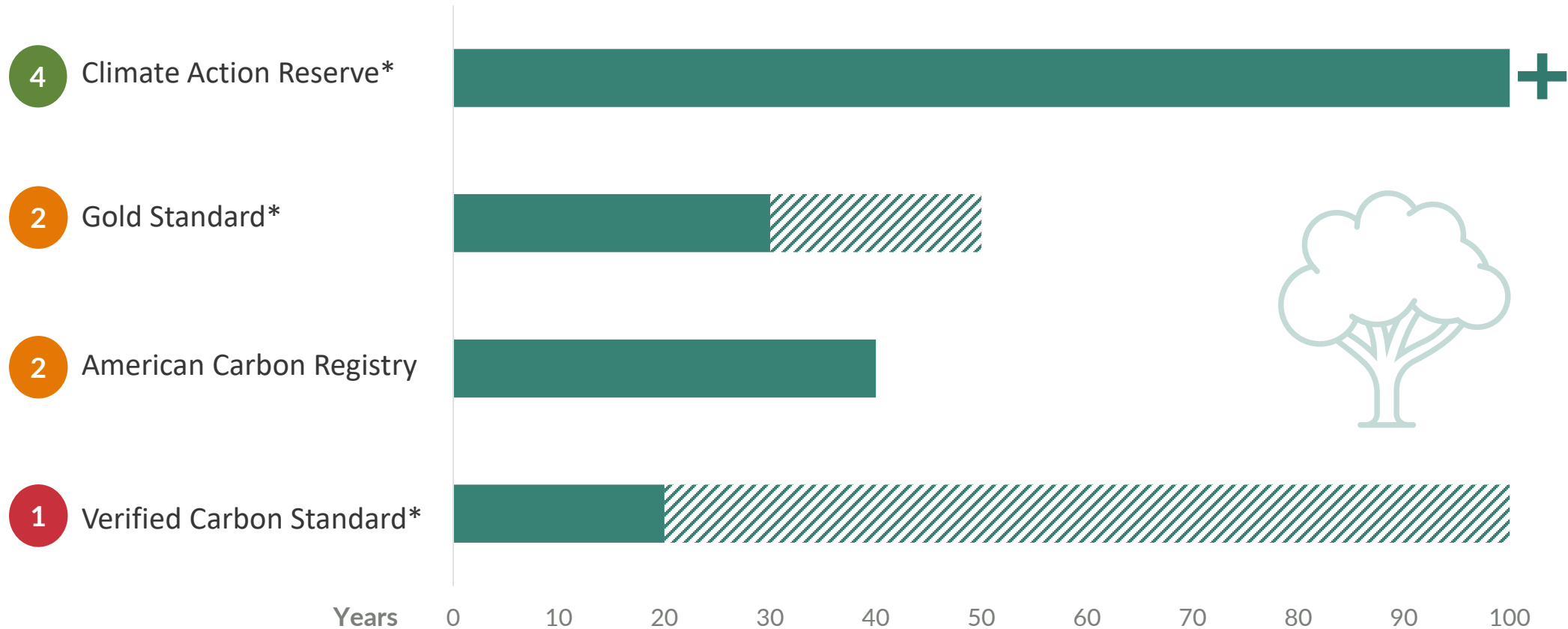
## Criterion 1.3.2: Robustness of quantification methodologies

# Counting Carbon: Methodologies Must Improve

Overview of scores for methodologies assessed to date

Origin	 Efficient Cookstoves (rural)	 Establishment of Natural Forests	 Household Biodigesters	 Industrial Biodigesters	 Landfill Gas Utilization	 Gas pipeline leak repair	 Recovery of Oil Field Gas	 Solar Photovoltaic	 Wind Power (onshore)
ACR		A/R Methodology			Landfill Project				
CAR		Forest Protocol		U.S. Livestock Mexico Livestock	U.S. Landfill				
CDM	AMS-II.G	AR_ACM0003	AMS-I.C AMS-I.E	ACM0010 AMS-III.D	ACM0001 AMS-III.G	AM0023	AM0009	ACM0002 AMS-I.D	ACM0002 AMS-I.D
GS	TPDDTEC	A/R Methodology	TPDDTEC AMB	GS-ACM0010					

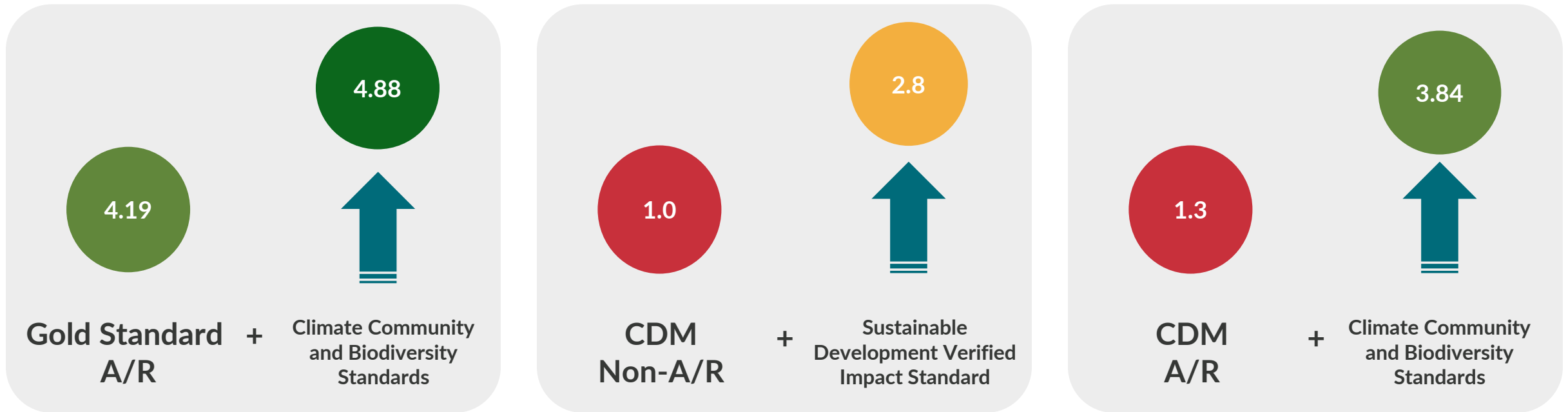
# Required Minimum Periods for Addressing Reversals



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



# Environmental and Social Safeguards



Complementary standards boost scores for programs' environmental and social safeguards

# 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

# 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?

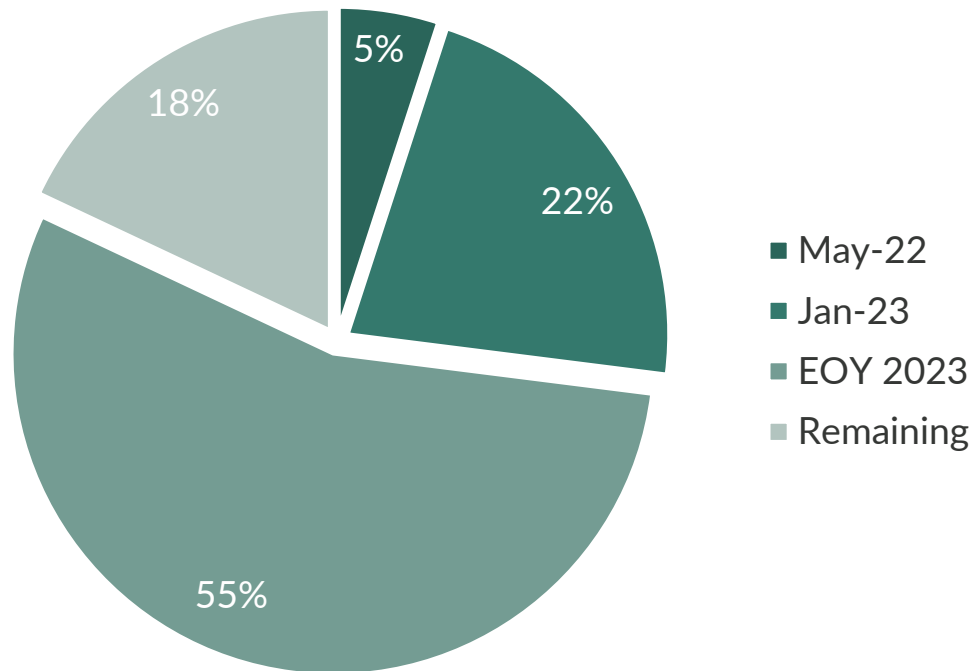
An aerial photograph of a wind farm situated in a lush, green forested landscape. The wind turbines are visible, with their blades extending across the scene. The image is overlaid with several white-outlined hexagons. Some of these hexagons have colored triangular sections: one has a yellow triangle at the top, another has a dark teal triangle on the right, and a third has a light teal triangle on the right. The overall tone is dark green, suggesting a focus on nature and renewable energy.

# 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:

[www.carboncreditquality.org](http://www.carboncreditquality.org)

Contact:

[carboncreditqualityinitiative@gmail.com](mailto:carboncreditqualityinitiative@gmail.com)



**CCQI**  
Carbon Credit  
Quality Initiative