



**โอกาสธุรกิจไทย
กับมาตรฐาน
คาร์บอนเครดิต
ในระดับสากล**

4 ตุลาคม 2565

Boonrod Yaowapruak
boonrod@thecreagy.com

**มาตรฐานด้านคาร์บอน
เครดิตในระดับสากล**



Voluntary Carbon Market (VCM) is starting to set an agreed standard to solve an issue of lack of basic standardized rules and mixed views on:

1) Quality of Carbon credit and 2) Quality of Action Claim



Quality of carbon credits

- Article 6 Paris Agreement
- CORSIA eligible units by ICAO
- Core Carbon Principles by iVCM

Quality of Action claims

- Climate Action Leading Organization (CaLo) by TGO
- Climate Neutral Now by UNFCCC
- Code of claim by VCMi

**How can we
define high quality
carbon credits?**

**In all, Carbon credits
shall Support Global
Goals and Align with
the Paris Agreement**





Programme Design Elements Assessment Criteria

- Clear Methodologies and Protocols, and their Development Process
- Scope Considerations
- Offset Credit Issuance and Retirement Procedures
- Identification and Tracking
- Legal Nature and Transfer of Units
- Validation and Verification procedures
- Program Governance
- Transparency and Public Participation Provisions
- Safeguards System
- Sustainable Development Criteria
- Avoidance of Double Counting, Issuance and Claiming

Carbon Offset Credit Integrity Assessment Criteria

- Are additional
- Are based on a realistic and credible baseline
- Are quantified, monitored, reported, and verified
- Have a clear and transparent chain of custody
- Represent permanent emissions reductions
- Assess and mitigate against potential increase in emissions elsewhere
- Are only counted once towards a mitigation obligation
- Do no net harm





WHAT ARE THE CORE CARBON PRINCIPLES?

The CCPs are designed to establish interlinked, fundamental principles for high-quality carbon credits that create real, additional and verifiable climate impact with high environmental and social integrity.

01. ADDITIONALITY

02. MITIGATION ACTIVITY INFORMATION

03. NO DOUBLE COUNTING

04. PERMANENCE

05. PROGRAM GOVERNANCE

06. REGISTRY

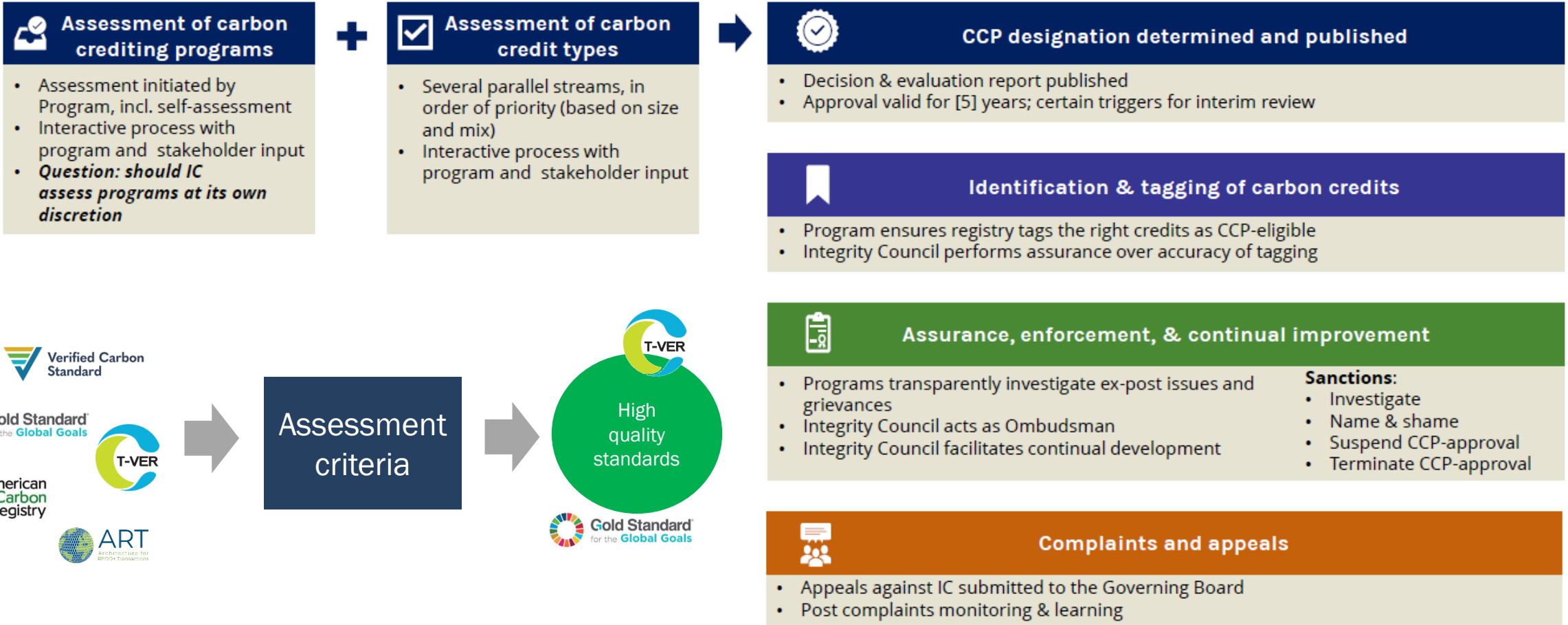
07. ROBUST INDEPENDENT THIRD-PARTY VALIDATION AND VERIFICATION

08. ROBUST QUANTIFICATION OF EMISSION REDUCTIONS AND REMOVALS

09. SUSTAINABLE DEVELOPMENT IMPACTS AND SAFEGUARDS

10. TRANSITION TOWARDS NET-ZERO EMISSIONS

ASSESSMENT PROCEDURE



CCP designation determined and published

- Decision & evaluation report published
- Approval valid for [5] years; certain triggers for interim review

Identification & tagging of carbon credits
Assurance, enforcement, & continual improvement

- Programs transparently investigate ex-post issues and grievances
- Integrity Council acts as Ombudsman
- Integrity Council facilitates continual development

Sanctions:

- Investigate
- Name & shame
- Suspend CCP-approval
- Terminate CCP-approval

Complaints and appeals

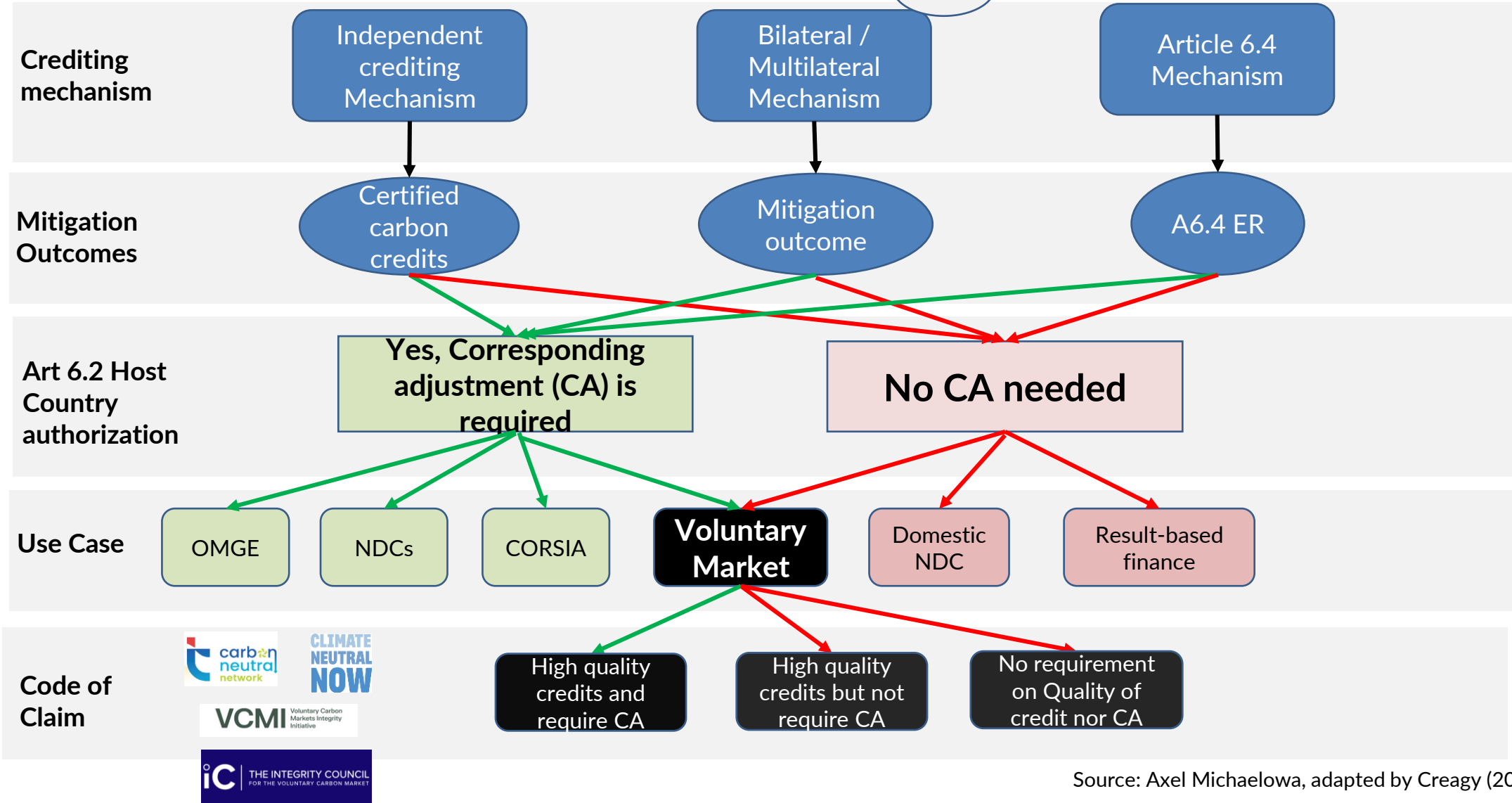
Assessment criteria

High
quality
standards

Why does quality of carbon credit matter?



JCM



Source: Axel Michaelowa, adapted by Creagy (2022)

Thank you



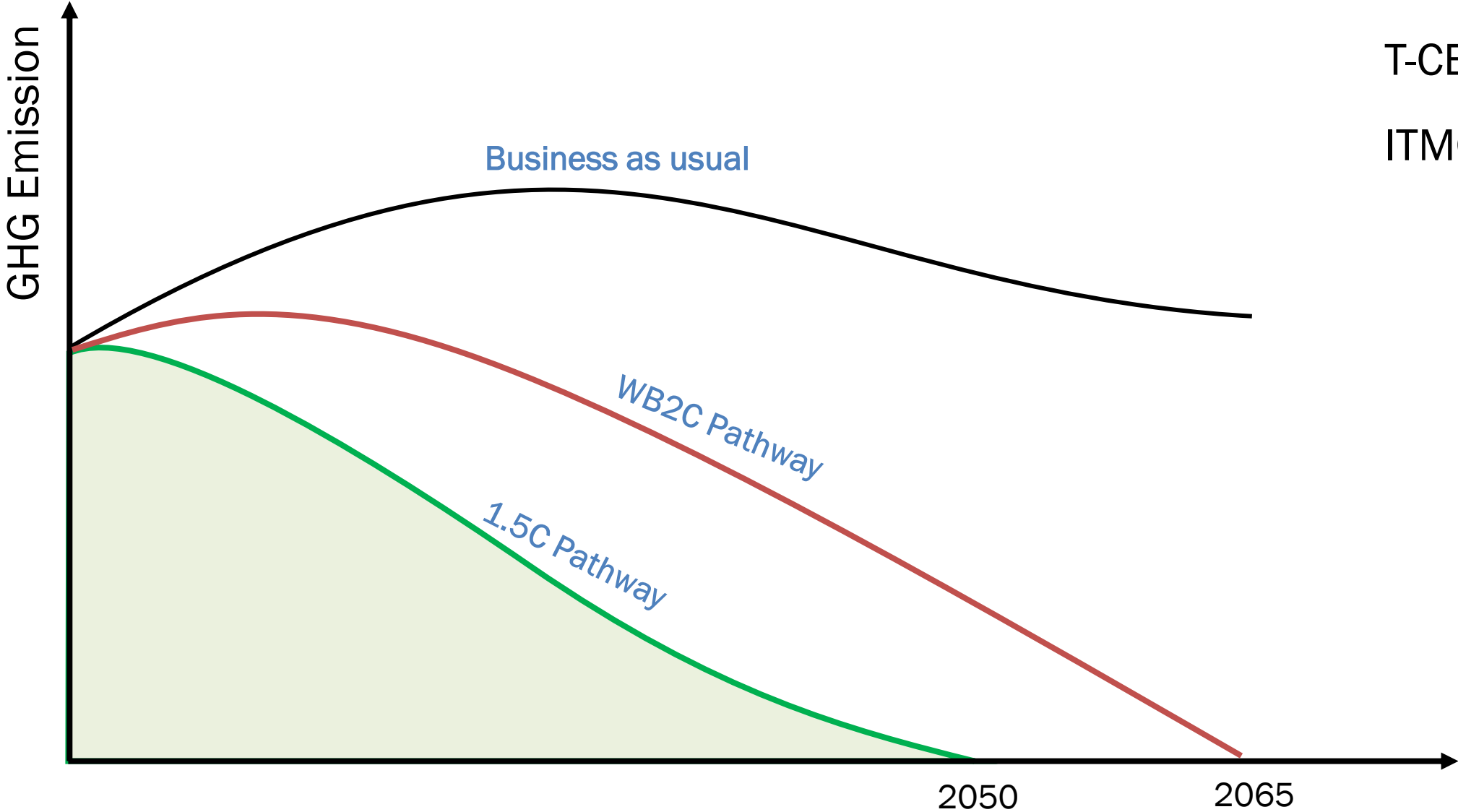
www.thecreagy.com

Role of carbon credits in the net zero pathways

A6.4 ER

T-CER

ITMO



Baseline setting toward the net-zero

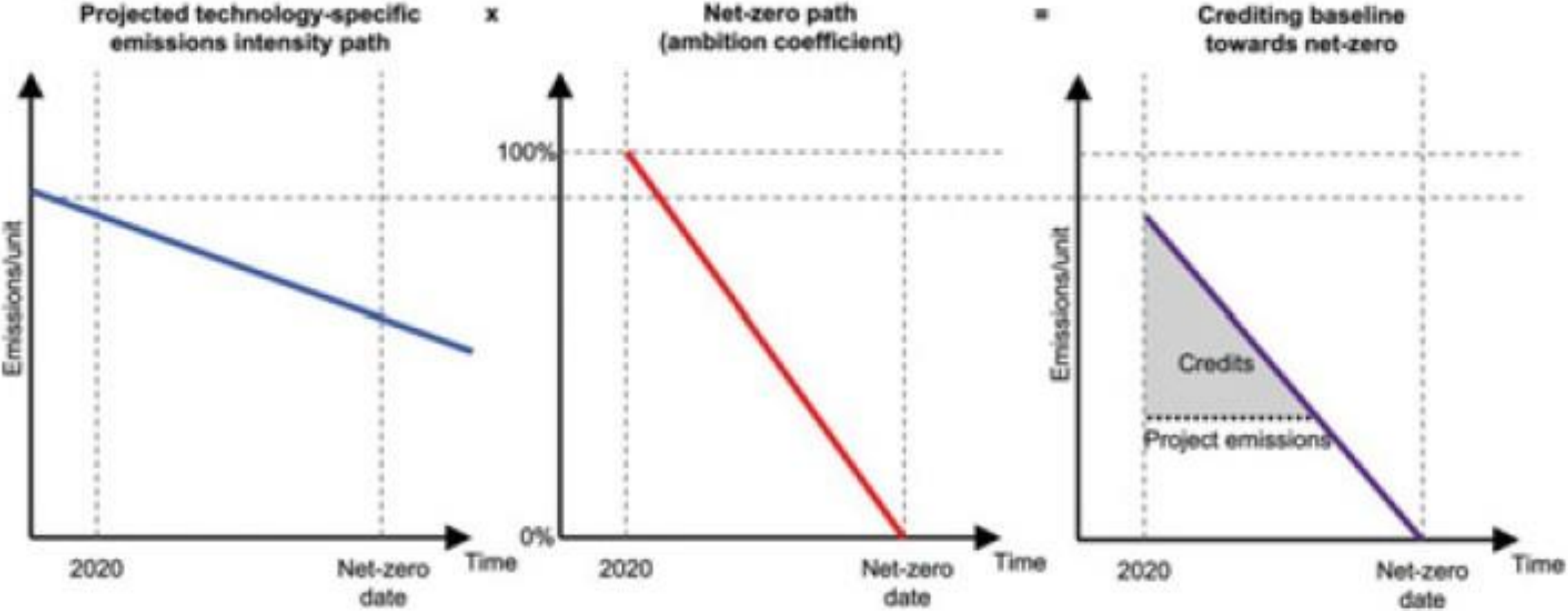


Figure 12 Application of an ambition coefficient toward a net-zero world

The demand for voluntary carbon credits is rapidly expanding in the past few years.



Forestry and land use credits are the most popular assets in 2021.

	2020			2021		
	VOLUME (MtCO2e)	PRICE (USD)	VALUE (USD)	VOLUME (MtCO2e)	PRICE (USD)	VALUE (USD)
FORESTRY AND LAND USE	57.8M	\$5.40	\$315.4M	227.7M	\$5.80	\$1,327.5M
RENEWABLE ENERGY	93.8M	\$1.08	\$101.5M	211.4M	\$2.26	\$479.1M
CHEMICAL PROCESSES / INDUSTRIAL MANUFACTURING	1.8M	\$2.15	\$3.9M	17.3M	\$3.12	\$53.9M
WASTE DISPOSAL	8.5M	\$2.69	\$22.8M	11.4M	\$3.62	\$41.2M
ENERGY EFFICIENCY / FUEL SWITCHING	30.9M	\$0.98	\$30.4M	10.9M	\$1.99	\$21.9M
HOUSEHOLD / COMMUNITY DEVICES	8.3M	\$4.34	\$36.2M	8.0M	\$5.36	\$43.3M
TRANSPORTATION	1.1M	\$0.64	\$0.7M	5.4M	\$1.16	\$6.3M
AGRICULTURE	0.5M	\$10.38	\$4.7M	1.0M	\$8.81	\$8.7M