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CCTS Offset Mechanism: Independent Validation & Verification of Carbon Reduction Projects





Overview:

The Carbon Credit Trading Scheme (CCTS) Offset Mechanism, administered by Bureau of Energy Efficiency (BEE), enables eligible entities to develop GHG reduction, avoidance or removal projects and earn Carbon Credit Certificates (CCCs) through independent validation and verification. TUV India supports project developers through risk-based assessment of project design, methodology, monitoring and GHG outcomes.

Key elements include:

- Project design aligned with the applicable approved CCTS methodology
- Independent validation prior to project registration
- Monitoring of project activity and GHG emission outcomes
- Independent verification of achieved emission reductions or removals
- Evidence-based assessment supporting the prescribed Carbon Credit Certificate (CCC) issuance process

TUV INDIA — CCTS Offset Mechanism Sector Coverage

Industries: Eligible industrial projects demonstrating GHG emission reductions, avoidance or removals under applicable CCTS methodologies, including energy efficiency, fuel switching and other eligible interventions.

Transport: Eligible transport-sector projects assessed against applicable CCTS methodologies, project boundaries, baselines, monitoring requirements and supporting evidence, subject to prevailing CCTS requirements.

CCTS Offset Mechanism – Key Features

- **Structured Project Development:** Design, methodology selection, registration, monitoring, verification and CCC issuance.
- **Robust Baseline & Additionality:** Defined boundaries, baselines, additionality and GHG quantification.
- **Independent Assurance:** Third-party validation and verification of project design, data and GHG outcomes.
- **Data Integrity & Traceability:** Risk-based review of GHG data, calculations, completeness and evidence.
- **Environmental & Social Considerations:** Applicable environmental, social safeguards and relevant SDG considerations.

From Project Concept to Verified Carbon Credits

- **Concept & Registration:** Define project activity and complete CCTS account registration.
- **PDD Development:** Prepare Project Design Document (PDD) covering methodology, boundaries, baseline,

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additionality, monitoring and GHG quantification.

- **Validation:** Independently assess eligibility, methodology, baseline, additionality, monitoring and safeguards.
- **Project Registration:** Submit validated project for registration under the CCTS process.
- **Monitoring:** Project developer monitors project activity and relevant parameters as per the approved methodology and monitoring plan.
- **Verification:** Independently verify implementation, data, calculations, emission factors, evidence and GHG reductions/removals.
- **CCC Issuance:** Successful verification supports CCC issuance, subject to applicable CCTS requirements and authority approval.

Why TUV India?

TUV India delivers independent, evidence-based assurance backed by expertise in GHG, energy, carbon markets, ESG and sustainability. With a risk-based approach, strong data integrity, TÜV NORD GROUP expertise and pan-India presence, TUV India is a trusted partner for CCTS projects.

About Us:

TUV India Pvt. Ltd. (TÜV NORD GROUP) is a customer-focused, innovative, and independent, technical, quality & safety services organization, dedicated to providing future-proof solutions through technological excellence for the success of its customers with the highest level of integrity. With a presence at over 40 strategic locations in India; a branch office in Sri Lanka and Bangladesh; state-of-the-art laboratories at Pune, Bengaluru, Noida and Jamnagar; 100 important countries worldwide and through digital means, we are always connected to you, our esteemed customer, anywhere, anytime.

We are proud to provide increasing levels of services to the best known, largest global and national companies as well as medium and small industries in diverse sectors like Oil & Gas, Petro -chemical, Nuclear, Renewables, Infrastructure, Food, Power, Manufacturing, Chemicals, Pharma, Paper, Automobiles, Railways, Aerospace, Defence, IT, Health, Hospitality, Retail, etc.

Over 1700 competent and experienced TUV India experts spread across India and over 14000 TUV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing — Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TUV India Training Academy.

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