

Powering Ghana's Transition with Clean Energy

Context

Ghana is committed to transitioning toward a sustainable and low-carbon energy future as outlined in its Nationally Determined Contribution (NDC) and Energy Transition Framework (2022-2070). The country is faced with pressing challenges in energy security and dependence on fossil fuels. According to 2025 data from the Energy Commission of Ghana, 60% of energy generation in the country comes from fossil fuels, which impacts Ghana's overall greenhouse gas (GHG) emission profile. Consequently, the energy sector represents a crucial lever in achieving the country's sustainable development and climate goals. However, clean energy investment is faced with constraints due to certain perceived risks and unfavourable financing conditions rendering access to finance a major barrier to the energy transition and, thus, to tapping the GHG mitigation potential in the energy sector.

Ghana's climate commitments under the Paris Agreement are aligned with its long-term sustainable and socioeconomic development priorities. In this vein, an updated NDC identified unconditional measures expected to lead to GHG emission reductions of 24.6 MtCO₂e by 2030. GHG mitigation efforts will be enhanced through the implementation of conditional measures implemented with international support and that would generate 39.4 MtCO₂e in emission reductions. Among the conditional measures, the Ghanaian government has identified typologies of renewable energy measures as eligible mitigation outcome activities in accordance with the Article 6.2 of the Paris Agreement, which enables a framework for cooperative climate mitigation activities.



In this context, Ghana and Switzerland signed, in November 2020, a bilateral climate agreement under which GHG emission reduction projects are implemented in Ghana and the resulting mitigation outcomes are transferred to Switzerland to help meet its climate targets. Under this framework, the Foundation for Climate Protection and Carbon Offset (KliK Foundation) developed the National Clean Energy Programme (NCEP) aimed at financially supporting investments in solar photovoltaic (PV) installations in the household sector as well as the commercial and industrial (C&I) sectors.

About the Programme

The NCEP is aimed at supporting innovative, sustainable, and socially inclusive clean energy initiatives that deliver measurable emission reductions while improving livelihoods. It provides financial incentives to scale up solar PV investments in the household and C&I sectors across Ghana. Once authorised, this will be the first solar PV rooftop programme in Ghana under Article 6.2 and the second globally, unlocking investments of about USD120 million for a portfolio of 137 MW of solar PV rooftop projects, which corresponds to approximately 4,000 installations of up to 1 MW capacity.

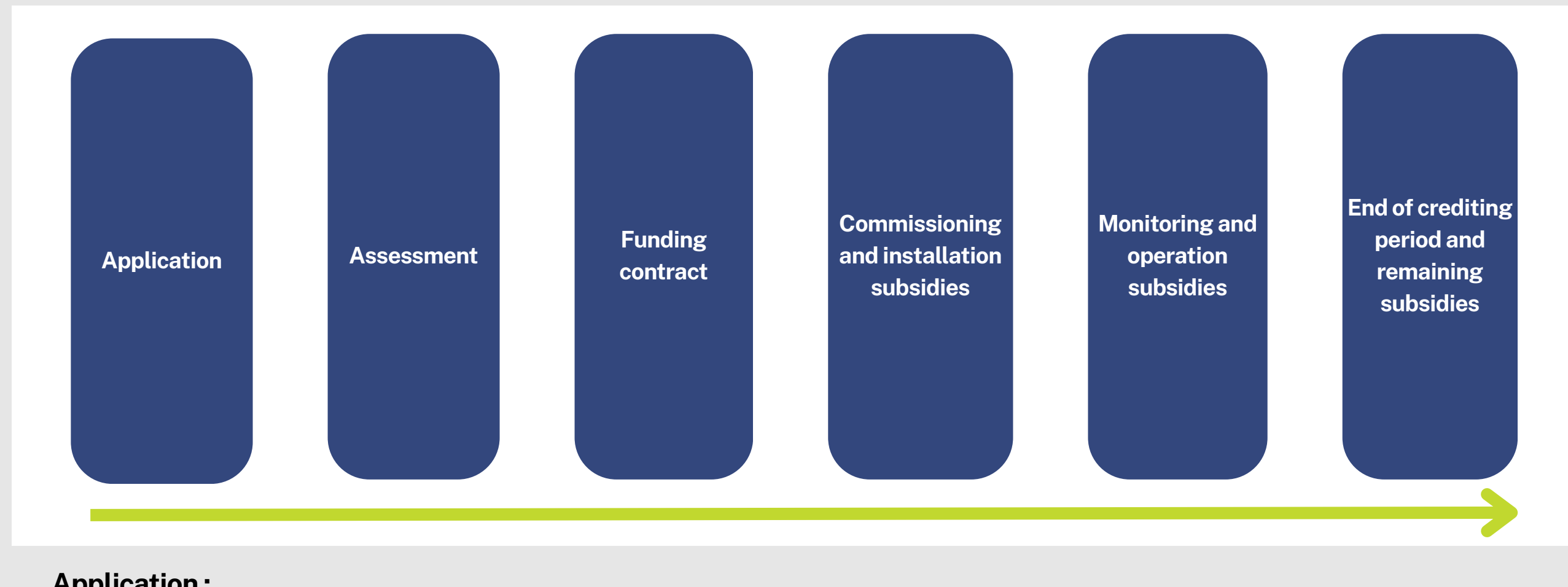
The NCEP is intended to:

- Promote the adoption of renewable energy in households, small and medium enterprises (SMEs), and industries through installation and operation subsidies as well as technical assistance.
- Deliver verified emission reductions aligned with Ghana's NDC and Article 6 carbon market mechanisms.
- Catalyse private sector investment and innovation in clean energy technologies.
- Promote sustainable development and transformational change.

The KliK Foundation is partnering with Econoler to manage and implement NCEP's component aimed at the C&I sectors. The NCEP offers financial support for individual PV installations and portfolios of installations for captive use through installation subsidies upon the successful commissioning of solar PV projects as well as result-based payments, or operation subsidies, based on the amount of electricity generated.

The duration of projects supported by the programme depends on their implementation date but will automatically end upon completion of the crediting period on 31 December 2030. It should be noted that the NCEP provides financial support only for eligible PV systems installed before 31 December 2028.

NCEP Participation Process



Application:

Programme participants apply to the NCEP for individual PV installations (of up to 1 MW) or a portfolio of installations (cumulatively of up to 2 MW) by filling out the programme application form and sending it along with the required supporting documents to the programme email address (ncep-ghana@econoler.com). The programme participant may be a project developer, energy service company (ESCO), solar PV company, electricity consumer, or installation owner.

Assessment

Criteria	Description
Project implementation start date	The project implementation start date must occur only after the project has been officially approved by Econoler. The programme participant shall confirm the specific submitted project has not been installed and no investment decisions (e.g. installation contract) have been made prior to inclusion in the NCEP.
Grid connection	The installation location (company, building) must be connected to the grid .
No debundling	No other NCEP installation exists at the given location and not more than one installation is included at the same location simultaneously as part of a portfolio application.
NCEP MRV requirements	The participant agrees to the MRV requirements of the programme. This implies executing the metering calibration and maintenance programme of the installation, maintaining records of both calibration and maintenance in specific logs, ensuring that monitoring devices are installed, providing Econoler with the amount of electricity generated by the solar PV installation, and granting site access to Econoler and the KliK Foundation.
Additional financing	The programme participant assures that the project will not receive additional financing from other financial schemes outside the NCEP (except where explicit permission has been granted by Econoler).
Project is in Ghana	The location of the project is in Ghana and evidence (e.g. electricity bill) is provided to prove the accuracy of the provided address.
Installed capacity less than 1MW	Installed capacity per site is less than 1 MW for each installation and 2 MW for a set of installations under a portfolio.
Technical standards	The programme participant confirms that the installation will be made by an installer licensed by the Energy Commission and provides evidence on installation compliance with national technical standards.
Rights to emission reductions	By signing the application form, the installation owner consents to the transfer of the rights to the emission reductions generated by the PV installation to Econoler in return for financial support.
Technical equipment	By signing the application form, the installation owner consents to the transfer of the rights to the emission reductions generated by the PV installation to Econoler in return for financial support. Projects only use technologies that include solar PV (modules, inverters, cables, and mounting) and, optionally, a battery energy storage system (BESS).
Over-dimensioning avoidance	Projects avoid over-dimensioning (end users provide the latest electricity bill).

Each individual installation must adhere to every inclusion criterion whether a project was submitted as a single application or as part of a portfolio of installations.

Funding Contract

When an application is deemed eligible, Econoler and the installation owner negotiate a funding contract outlining the commercial terms and conditions as well as MRV requirements. Inclusion is confirmed by the signature of the funding contract, which marks the point at which the project becomes formally part of the programme. The term of the funding contract continues until the date on which both parties have satisfied all their respective obligations during the crediting period.

Commissioning and Installation Subsidies

After the signature of the funding contract, the implementation and commissioning of the PV installation take place according to the technical specifications and within the timeframe specified in the submitted application. A copy of the PV installation contract between the installation owner and the PV installer must be provided to Econoler. After the successful implementation and commissioning of the PV installation in alignment with funding contract obligations, the project owner receives from Econoler an installation subsidy calculated based on the expected contractual emission reduction unit.

Monitoring and Operation Subsidies

During the crediting period, the installation owner ensures continuous measurement of electricity generation using the data recorded using inverters or an external metering device. The data shall be recorded at least monthly, aggregated yearly, and transmitted to Econoler along with records on the installation metering calibration and maintenance programme demonstrating compliance with national regulations and/or manufacturer technical specifications. Based on the information provided by participants on PV electricity generation, Econoler calculates the annual mitigation outcomes, which are then verified by a third party, followed by a validation process carried out by the competent authorities of the respective governments of Ghana and Switzerland. Once the verification/validation process is deemed positive, the mitigations outcomes transfer is confirmed and Econoler pays the operation subsidy to the project owner.

End of Crediting Period and Remaining Subsidies

At the end of the contractual term when Econoler and the project owner have satisfied all their respective obligations during the crediting period, the owner shall receive the remaining subsidy. It consists of the final payment Econoler makes to the project owner after all mitigation outcomes deliveries are completed. The remaining subsidy represents the balance owed to fully settle the agreed financial terms of the contract.

Ready to Join the NCEP?

Accelerate your transition to clean energy and contribute to Ghana's climate goals.

Follow these simple steps to apply:

1. Download the application form (individual or portfolio)
2. Review the inclusion criteria
3. Send your completed form to: ncep-ghana@econoler.com

Apply now and power your project with performance-based funding.

[Download Application forms](#)

About Econoler

Econoler is a renowned Canadian firm specialised in energy efficiency and sustainable energy project implementation worldwide. As the NCEP coordinating and managing entity (CME), Econoler decodes experience and expertise to ensure high-impact, verifiable results.

The initiative

Programme implemented in collaboration with KliK Foundation.

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