

Driving Solutions: How the Advisory Support Facility Supports Energy Access

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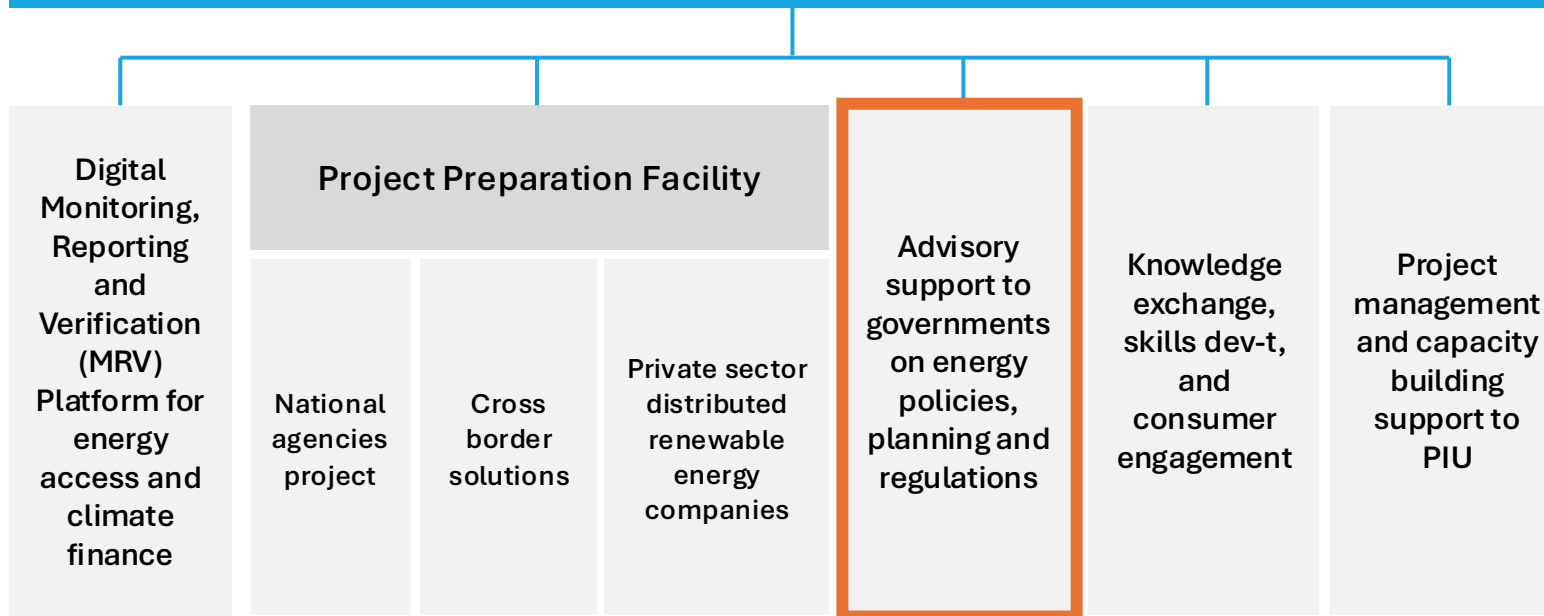
ASCENT WEEK 2025



COMESA's Advisory Support Facility (ASF)

ASF is a **transformative solution** designed to empower participating countries with tailored, demand-driven expertise to accelerate sustainable and clean energy access.

COMESA Regional Energy Access Acceleration Platform



Key Benefits



Customized Solutions



Accelerated Implementation and Progress



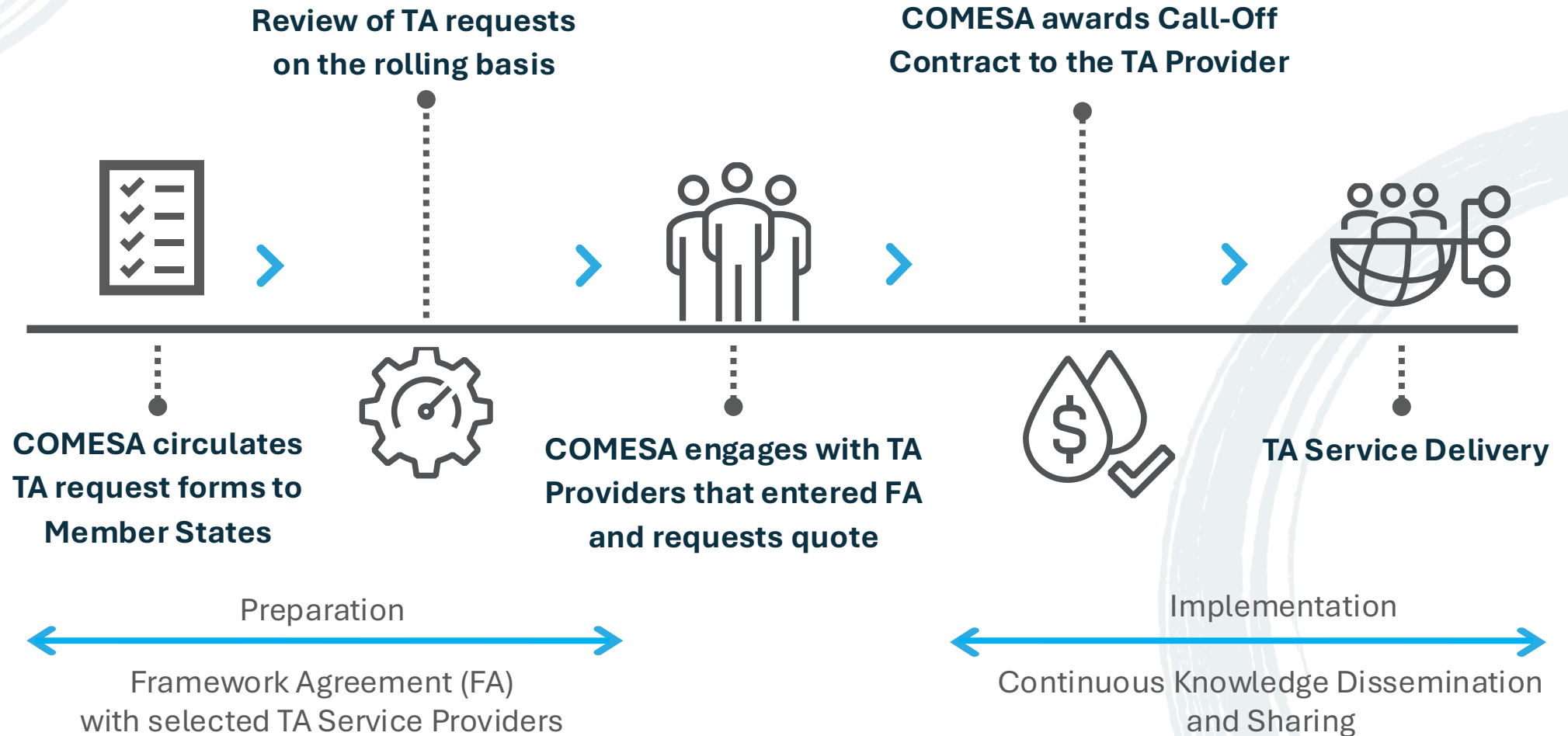
Capacity Building



Access to Expertise

ASF Delivery Model

 Demand-Driven Solutions



ASF Priority Areas of Support

Geospatial
Planning

MTF Survey
Support

Productive
Uses of Energy

Electrification
of Public
Institutions *

Clean Cooking

Carbon Asset
Generation &
Monetization

1

Preparation, updating, and operationalization of national energy policies, strategies, and plans

2

Promoting the adoption of best practices by developing model policies and regulations, and supporting their operationalization

3

Supporting the harmonization of technical and quality standards

4

Supporting the preparation of investment prospectuses and roadmaps and associated convening and roadshows to mobilize financing

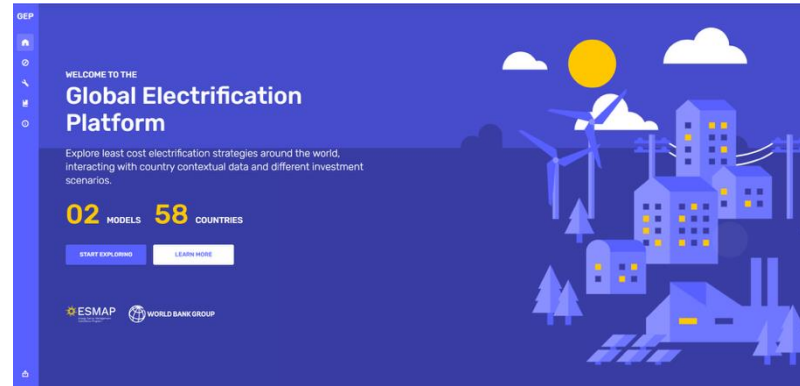
Planning

Geospatial Planning for Universal Energy Access

ESMAP supports the World Bank's **Mission 300 initiative** by developing and applying **geospatial electrification planning tools** to help countries design and implement least-cost national electrification strategies.

Key Platforms:

- [Global Electrification Platform \(GEP\)](#): Models least-cost electrification pathways & investment needs
- [Distributed Renewable Energy \(DRE\) Atlas](#): Provides settlement-level data to guide DRE deployment and productive use planning



Global Electrification Platform (GEP)

Open-access, interactive platform providing electrification investment scenarios across 58 high-deficit countries.

- 96 scenarios via adjustable “levers” (population, demand, costs, investments) that results in investment needs, technology mix, capacity requirements.
- Pathways for universal electricity access (grid, mini-grid, SHS).
- Intermediate strategy for 2025 & full electrification by 2030.

New Launch 2025



Distributed Renewable Energy (DRE) Platform

Publicly accessible, settlement-level data platform for 58 countries

- Identifies communities suitable for DRE using infrastructure, electricity, and socio-economic indicators
- Supports investment planning with DRE site data, total connections, and feasibility insights

ESMAP & CCG Partnership for Sustainable Energy

ESMAP and **CCG (Climate Compatible Growth)** partner to advance sustainable, climate-resilient energy access using geospatial data, planning tools, and capacity-building initiatives.



Focus Area

ESMAP Role

CCG Role

Joint Tools / Platforms

Electrification Planning

Technical assistance for geospatial planning, pipeline development, implementation and Organizes training with governments, academia & stakeholders

Develops open-source tools & delivers energy planning trainingworkshops & global public goods

- [Global Electrification Platform \(GEP\) / OnSSET](#)
 - [Modelling Platform Nigeria \(EMP-N\)](#)
 - [Modelling Platform Africa \(EMP-A\)](#)
 - OpenLearn courses

Climate-Resilient Energy Systems

Integrates climate risk into energy planning

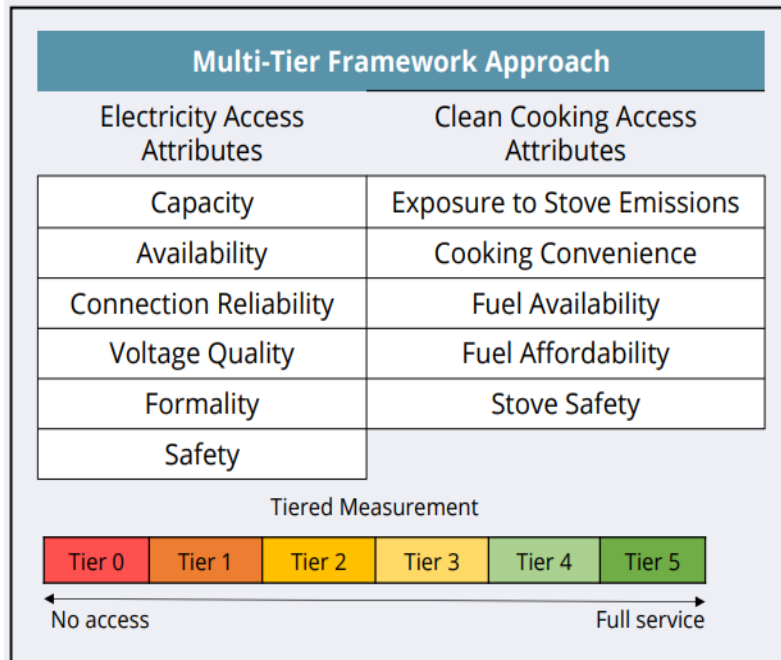
Supports climate-compatible development strategies

Geospatial & climate risk analytics
 Open data sharing platforms

Multi-tier Tracking Framework (MTF) Survey Support

MTF Surveys

- Establish baseline and assess energy access beyond physical connections and across service levels - Tier 0 (no access) to Tier 5 (full access)
- Set national targets and track progress toward **SDG7 and M300**



Procurement

- **Recruitment of Survey Firm:** Funding and managing the recruitment of the survey firm. In collaboration with the ESMAP MTF team, COMESA has developed standardized Terms of Reference, survey questionnaires targeting households, enterprises, and public institutions, as well as the sampling methodology.

Survey Preparation and Data Collection

- Set Study Objectives [In addition to establishing the baseline, the MTF survey results can be used for the affordability assessment].
- Support the sample selection [Sampling requires the engagement of the National Statistical Office to get representative sample]
- Questionnaire design and adaptation based on country context
- Support with enumerator Training
- Overseeing data collection

MTF Analysis and Advisory

- MTF Tier Data Analysis for Access Monitoring [The analytic script for data evaluation was created by experts from COMESA and ESMAP MTF].
- Report Publication and Distribution

Capacity Building

- Building capacity of different stakeholders to collect and track access to electricity and clean cooking with the training material that ESMAP MTF team has developed

Productive Uses of Energy (PUE)



Policy and Regulatory Frameworks for PUE

- Support national PUE strategies, policy, and regulations.
- Development of national and regional frameworks and guidelines for PUE programs.
- Advisory on tax and tariff reform



Cross-Ministerial Coordination and Governance

- Establishment of national PUE steering committees across energy, agriculture, water, trade, and finance ministries.
- Guidance on embedding PUE into national electrification and climate-smart agriculture plans.



Market and Investment Studies

- Regional/national market assessments and mapping of PUE opportunities.
- Development of long-term demand forecasts to support utility / minigrid economics based on national scenarios.
- Studies on barriers and enabling conditions (e.g., access to finance, equipment quality, supply chains, gender equity).



Financing and Business Models

- Support design subsidies and credit guarantee mechanisms for PUE entrepreneurs and end users that are market-building, not market-distorting .
- Support local banks to lend to PUE companies beyond.
- Engage investors / others nationally on PUE.



Standards, Quality Assurance, and Data Systems

- Development of national and eventually regional quality standards, and quality assurance frameworks for PUE.
- Support for open regional data platforms on PUE markets, investment flows, and lessons learned.



Social Inclusion and Gender Mainstreaming

- Design of inclusive PUE programs targeting women, youth, and marginalized groups.
- TA for gender-sensitive financing and entrepreneurship.
- Regional exchange on successful women/youth PUE entrepreneurship models.

Clean Cooking

Quality Assurance

- Establish testing, certification, and performance standards for reliable products
- Capacity building
- Harmonization with carbon credit requirements

Market assessment

Market assessment methodology and framework

Willingness to pay estimations by targeting groups

Minimum cost estimation by region/target group and viability gap

Regulation and taxes incentives

Awareness campaign and behavior change instruments

- Multi-channel efforts including media outreach, community events, and influencer partnerships

Result Based Finance

- Finance instrument design
- Subsidies level estimation by target group

Integrate MRV systems

Support on Carbon Asset Generation & Monetization



Data collection, surveys, technical assessments

- Data collection and surveys (e.g. for baseline determination)
- Assessments of different technology/monitoring options (e.g. digital monitoring for improved cookstoves/ SHS)



Carbon Project documentation (for project registration with independent carbon standard and country approval)

- Support for development of required carbon project documentation (e.g., Information Notes; Concept Notes; Design Documents) and support throughout process



Carbon project Validation and Verification services

- Independent accredited 3rd parties to conduct validation of country ASCENT Carbon programs and subsequent verification of achieved emission reductions, in line with Carbon Standard requirements



Carbon market analysis and advisory

- Carbon market analysis (demand; price; criteria, market preferences, risks etc.)
- Carbon market regulatory assessment/advisory
- Carbon market and monetization advisory



Carbon market- related capacity building & technical assistance

- Capacity building for different stakeholders
- Capacity building and TA to inform carbon market policy decisions

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Thank you!

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