

SOMALIA'S RENEWABLE ENERGY TRANSITION

Policy, Programs, Projects & the Strategic Role of
Energy Storage Systems

Accelerating the Transition from Diesel-Based
Generation to Clean, Reliable and Affordable Energy

Presented by

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SOMALIA'S ENERGY CONTEXT

From Energy Challenges to a Renewable Energy Opportunity

- Limited electricity access, particularly in rural and underserved communities
- High dependence on diesel-based generation
- High electricity costs affecting households, businesses and public services
- Fragmented electricity systems and mini-grids
- Strong potential for solar, wind and other renewable energy resources

Strategic Opportunity

Renewable Energy + Energy Storage + Grid Modernization

Transforming Somalia's energy challenge into an opportunity for sustainable development.



ENERGY POLICY & REGULATORY FRAMEWORK

LEGAL & REGULATORY FOUNDATION | LONG-TERM ENERGY DEVELOPMENT

National Electricity Act 2023

- Electricity-sector reform
- Renewable energy
- Private sector • Regulation

Tariff & Licensing Regulations

- Regulation
- Sustainable services
- Investment

Generation & Transmission Development Plan — 2025

- Long-term pathway to 2045
- Renewable energy integration
- National grid development & expansion

Policy and institutional reform are the foundation of
Somalia's energy transition.

“Reform → Regulation → Investment → Renewable Energy →
Modern Grid → Energy Storage”



SOMALIA'S ENERGY TRANSITION

From Diesel-Based Generation to Renewable Energy + ESS



Strategic Role of ESS

- Store renewable energy
- Improve reliability
- Support peak demand
- Reduce diesel dependence
- Enable higher renewable-energy penetration

Energy storage is the bridge between Somalia's renewable energy potential and reliable electricity.



Somali Electricity

Sector Recovery Project

Rebuilding & Modernizing Somalia's Electricity

Sector

Key priorities:

- Expanding electricity access
- Improving electricity infrastructure
- Supporting lower-cost and cleaner electricity
- Integrating Solar PV + Battery Energy Storage
- Supporting solar power for public institutions
- Strengthening sector capacity and institutions

Strategic Contribution

Diesel-Based Generation

- Hybridization
- Solar PV + BESS
- Cleaner, More Reliable Electricity

SESRP provides an important foundation for renewable-energy integration and electricity-sector recovery.



ASCENT SOMALIA

Accelerating Sustainable & Clean Energy Access Transformation

Scaling Renewable Energy & Private-Sector Participation

Key Focus:

- ☀️ Solar PV
- 🔋 Battery Energy Storage Systems (BESS)
- ⚡ Mini-Grid Modernization
- 🤝 Private-Sector Participation
- 🌍 Expanded Clean Energy Access

Expected Impact

- Reduced dependence on fossil fuels
- Higher renewable energy penetration
- Improved reliability
- Lower electricity costs
- Increased clean-energy access

Major Opportunity

~50 MW Solar PV + BESS
for Mogadishu and selected major load
centers in the Federal Member States

ASCENT moves Somalia toward larger-scale, integrated renewable-energy systems.



HAREACT

Renewable Energy for Communities

Expanding Clean Energy Access Beyond Major Cities

Selected Locations

Eyl | Dhusamareb | Jowhar | Barawe | Bardhere

Planned Renewable Energy Component

☀️ 2.45 MWp Solar PV

🔋 4.75 MWh Battery Energy Storage System (BESS)

Development Impact

Energy Access

- Better Public Services
- Productive Communities
- Economic Opportunity

Renewable energy and storage can connect underserved communities to Somalia's energy transition.



ESS IN ACTION

Powering Essential Services with Clean Energy

150 Public Health Facilities

☀️ Solar PV + Battery Energy Storage Systems (BESS)

ESS Enables:

- 🏥 Reliable Health Services
- 💡 24/7 Electricity Availability
- ❄️ Medical Refrigeration & Cold Chains
- 🏥 Medical Equipment
- 📡 Reliable Communications
- 💰 Reduced Dependence on Diesel Generation

Beyond Health

Education | Water | Government Services | Telecom | Agriculture | SMEs

Clean energy becomes development infrastructure when it powers essential services and livelihoods.

Somalia | Country Status



PRIORITIES & WAY FORWARD

Scaling Renewable Energy & Energy Storage Across Somalia



POLICY

Develop an enabling ESS policy, regulatory, and standards framework



INCLUSION

Prioritize rural communities, health, education, water and productive sectors



INVESTMENT

Mobilize public, private and climate finance



CAPACITY

Build national technical and institutional capacity



DEPLOYMENT

Scale Solar PV + BESS, hybrid systems, and renewable mini-grids



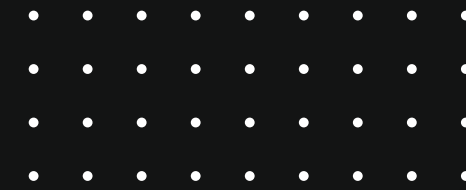
Our Approach

Policy → Investment → Deployment →
Inclusion → Capacity → Impact



SOMALIA'S ENERGY VISION

From Renewable Potential to Energy Security



POLICY

Strong institutions & enabling regulation



PROGRAMS

SESRP | ASCENT | HAREACT



TECHNOLOGY

Solar PV | BESS | Modern Mini-Grids



IMPACT

Clean • Reliable • Affordable • Inclusive Energy

OUR VISION

A Somalia powered by clean energy, strengthened by energy storage, and driven by inclusive development.



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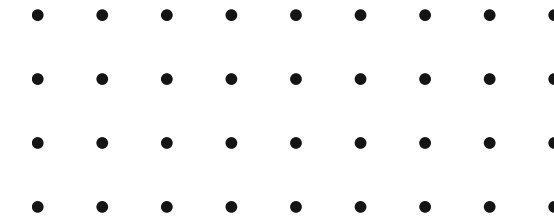
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Thank You for Your Attention

Energy storage is not only about storing power-it is about enabling the reliable, cleaner, and more sustainable energy future we envision for Somalia

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