

Country Profile

SOMALIA



19 million
population
(2024)



4.1%
GDP growth
rate (2024)



155.5 MW
total installed
capacity (2023)



46 MW
installed
solar capacity
(2024)



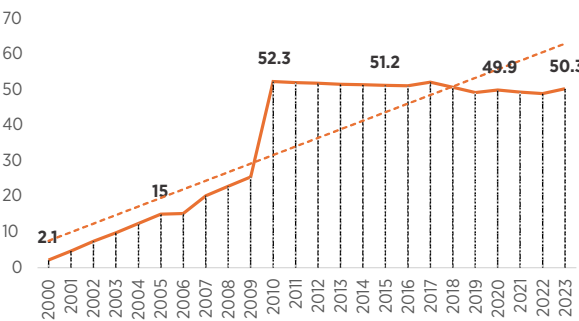
Reduce GHG
emissions by
34%
by 2035



Targets
392 MW
RE capacity
by 2030

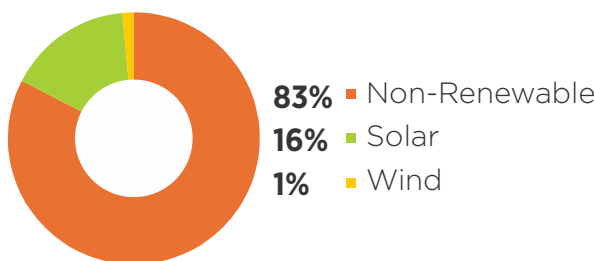


Access to Electricity (% of Population)



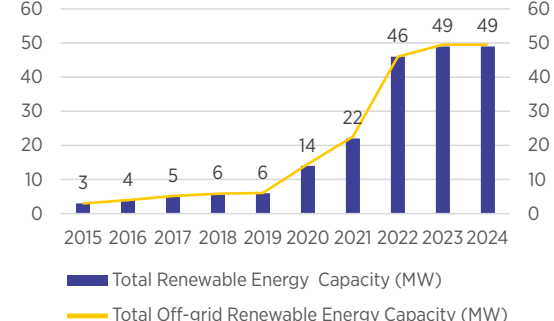
Source: World Bank

Electricity Generation Mix (%), 2022



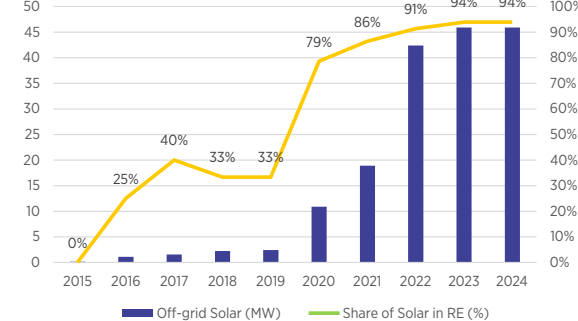
Source: IEA

Installed RE Capacity



Source: IRENA

Installed Solar Capacity



Source: IRENA

KEY CHALLENGES

Category	Challenges
Governance	Regulatory gaps, weak implementation, corruption, fragmented oversight
Financial	High tariffs, low investment, reduced donor support
Infrastructure	No national grid, outdated systems, technical skills shortage
Access & Sustainability	Urban-rural divide, reliance on fossil fuel, poor energy equity

POTENTIAL OPPORTUNITIES

Opportunity Area	Description
Resource Utilization	Use solar, wind, hydro resources in grid and off-grid systems
Mini-Grids & Hybrid Systems	Scale PPP-led microgrids with digital PAYG models
Institutional Readiness	Use AfDB/SITF and IRENA frameworks to catalyze regulation and policy
Financing Platforms	Leverage Mission-300 and Africa Energy Market Place funds
Private Sector Momentum	Incentivize SMEs and ESPs via investment promotion and capacity building
Value-Chain Integration	Develop energy-linked services in agriculture, health, cold storage
Climate-Linked Goals	Advance clean cooking, deforestation control, and disaster resilience

ENERGY STORAGE AND GRID INTEGRATION INITIATIVES

Initiative Type	Examples & Impact
Hybrid Solar + Battery Projects	Multiple 8–55 MW solar + 20–160 MWh BESS tenders rolled out in 2024-25 with focus on grid stability and diesel displacementScale PPP-led microgrids with digital PAYG models
Mini-Grid Integration & Off-Grid Support	- Programs like UNDP-GEF AMP and IOM launched solar/mini-grid hubs that can integrate storage for local enterprise and cold-chain services - Tenders for off-grid solar + BESS systems powering schools floated in 2025
Regional & Continental Support Frameworks	- Mission 300: (World Bank/AfDB, 2024–2025) includes grid expansion, decentralized mini-grids, and technical assistance via Zafiri JV and Energy Compacts - AfDB mission (2024–2025) supports infrastructure assessment and Sector Investment Trust Fund for Somalia’s electrification efforts

KEY POLICIES/REGULATIONS/GUIDELINES

Policy/Regulation	Brief Description
Somalia National Electricity Act	Established National Electricity Authority (NEA) for licensing, tariff regulation, and rural electrification.
NEA Licensing Framework	Introduced formal licensing for Electricity Service Providers (ESPs) to ensure reliability and affordability.
ASCENT Project (World Bank)	Environmental and social safeguards for clean energy access; supports electricity recovery plans.
Optimized Cost Electricity Generation & Transmission Development Plan (OCEDP)	20-year roadmap for cost-effective generation, transmission, and regional interconnection.
National Development Plan (NDP)	
National Transformation Plan	Energy reforms, electrification targets, and draft off-grid regulations.
Sector Investment Trust Fund (SITF)	Focuses on energy investment, governance, and resilience for sustainable development.
IRENA Transition Assessment	Mobilizes finance for electrification and infrastructure development.
MoU with Azerbaijan	Provides regulatory guidance and institutional strengthening for renewable deployment.
	Partnership for renewable energy development and technical collaboration.



Climate & Sustainability Commitments

Nationally Determined Contributions (NDC 3.0)

- Targets a **30% emissions reduction by 2030**, covering energy, agriculture, forestry, transport, waste, and cooling
- Emphasizes **renewable energy expansion**, agriculture adaptation, water resilience, and national health
- Focuses on **"just transition"**, resilience for vulnerable communities, and **global climate finance**

National Climate Change Policy (2020, updated Feb 2023)

- Issued by the Federal Ministry of Environment and Climate Change
- Sets guiding principles and goals in **adaptation & disaster risk reduction** and **mitigation** across sectors



Investment & Financing Landscape

Estimated costs: \$6.96 billion (mitigation) and \$48.5 billion (adaptation) by 2030 to meet NDC Targets

Key Investors

- Multilateral Development Banks:** World Bank, African Development Bank
- Climate & Sustainability Funds:** Green Climate Fund, Global Environment Facility
- Bilateral & International Partners:** European Union, USAID / Power Africa, Azerbaijan Partnership
- Private Sector & Energy Service Providers:** Local ESPs - BECO, NECSOM, SOMPOWER, International Off-Grid Solar Companies
- Development Agencies & NGOs:** UNDP, IOM, GoGLA
- Emerging Investors:** Impact Investors & Climate Funds, SomInvest (Somalia Investment Promotion Office)

Sources:

- Population: Population, total | Data
- GDP: GDP growth (annual %) | Data
- Installed Capacity: Somalia | Africa Energy Portal
- Solar Capacity: Renewable Energy Statistics 2025
- Carbon Target: Somalia | Climate Promise
- RE Target: Somalia Plans to Cut Diesel Use and Triple Renewable Energy Capacity by 2030 - Somali Magazine