

HAITI

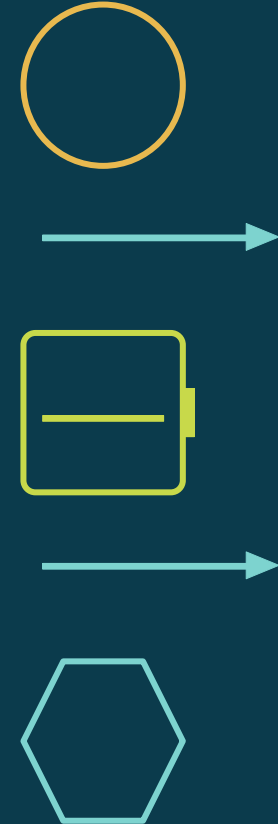
Haiti's Energy Transition

Policies, Progress and Opportunities
for Energy Storage

FROM ENERGY ACCESS TO ENERGY RESILIENCE

KIER – UN CTCN – UNITAR CIFAL Jeju Workshop

Gardy Darius — Haiti
1–2 September 2026 •



Haiti's Energy Context: From System Constraints to Local Solutions

KEY CHALLENGES

- Limited access to reliable electricity
- High dependence on imported fossil fuels
- High electricity generation costs
- Fragmented and vulnerable electricity infrastructure
- High dependence on biomass and charcoal for cooking
- High exposure to hurricanes, floods and other climate-related disasters

RENEWABLE ENERGY OPPORTUNITIES

- Abundant solar resources
- Hydropower potential
- Wind energy potential
- Biomass and waste-to-energy opportunities

SYSTEM CONSTRAINTS



HOUSEHOLD & BUSINESS
SELF-ELECTRIFICATION



LOCAL RESILIENCE

For Haiti, energy transition is not only an energy issue.
It is a development, energy security and climate resilience priority.

Building the Policy & Institutional Framework

ENERGY REGULATION LAYER

ANARSE

Established 3 February 2016

Le Moniteur No. 23

Structures regulation of electricity production, transport, distribution and commercialization.

Promouvoir – Développer -Réguler

CLIMATE-POLICY LAYER

National Climate Change Policy

NDC 2022

Frames mitigation, adaptation and national climate ambition.



Ministry of Environment (MDE)

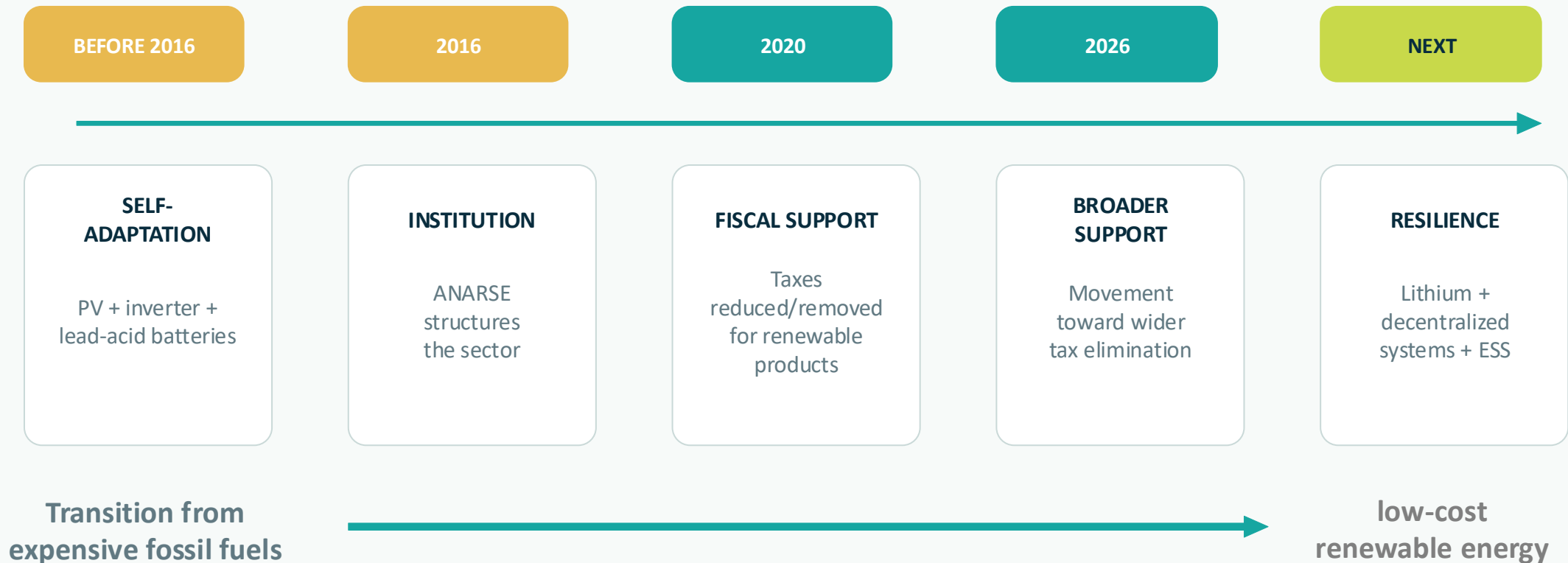
Drives national climate action, governance, and the execution of Haiti's Updated NDC (2022) to align mitigation, adaptation, and energy resilience.

Sector implementation

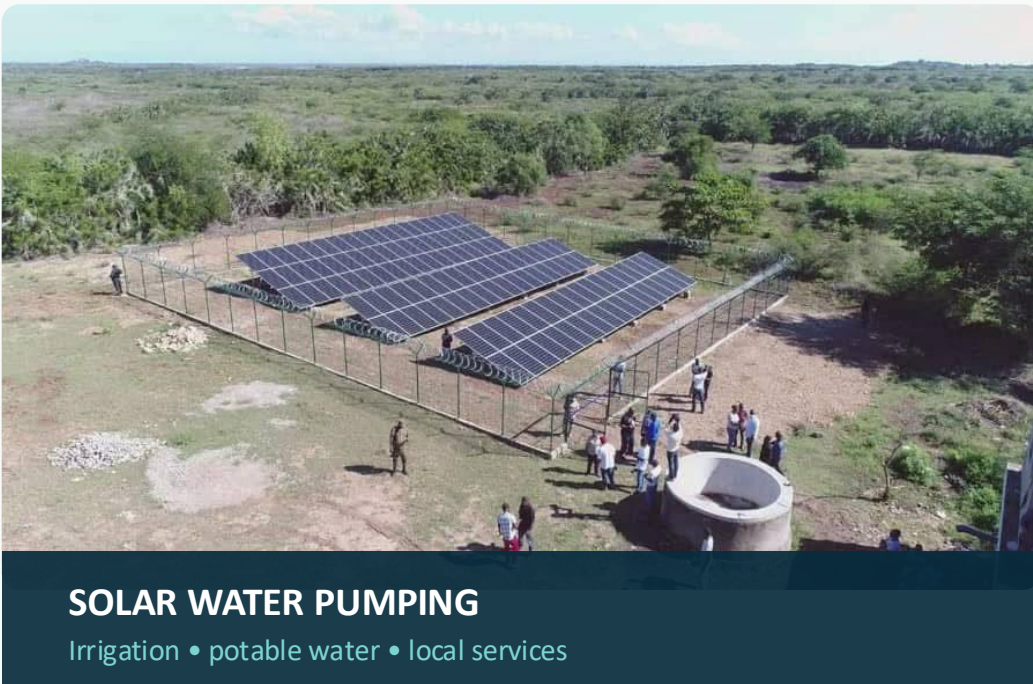


Climate direction

From Bottom-Up Adoption to a National Energy Transition



Renewable Energy in Action: From Households to Communities



PHARES

Programme Haïtien d'Accès des communautés Rurales à l'Énergie Solaire

Municipalities

Local organizations

Private sector

Communities



SOLAR → LOCAL ENERGY SYSTEMS → MICROGRIDS

Complementary transition area: clean cooking

From Policy to Infrastructure: Caracol & Jacmel



CARACOL

13.4 MW

Solar PV • under construction

>20,000 of 21,300 panels installed

Renewable generation at scale



JACMEL • MONT-FLEURI

4 MWp

SOLAR PV

3.35 MW minimum
injected PV power

Renewable generation +
storage

+

6 MWh

2.25 MW battery
injection power BESS

• under construction

NEXT OPPORTUNITY

**Community
Solar + BESS**



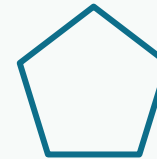
Replication
Resilience
Local energy systems

Why Energy Storage Becomes the Next Logical Step

DAY



NIGHT



Shift energy across time • smooth variability • support weak grids • protect critical services

SOLAR

Intermittent

GRIDWeak /
fragmented**SERVICES**

Need continuity

RESILIENCE

Withstand shocks

HAITI-SPECIFIC DESIGN QUESTIONS

- Heat • humidity • dust
- Thermal management + BMS
- Safety • diagnostics • maintenance
- Lifecycle + replacement strategy
- Upfront capital + financing

From Knowledge Exchange to Pilot Cooperation

