

## Solar Energy South Africa

# Ivory Coast grid enhancing technologies



## Overview

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Does Ivory Coast engage with private energy companies?

Ivory Coast's engagement with private energy companies is not unique to the region. In fact, public-private partnerships are common across West Africa as they are equally popular with governments and private companies.

Who is responsible for energy production in Ivory Coast?

Today, private operators in Ivory Coast are responsible for 70% of energy production and 100% of its distribution. The grid is expected to cover 99% of the population by 2035, with PPP models playing a major role in expanding electrification and grid connection. Gas-to-Power Generation.

Does Ivory Coast use natural gas?

The AZITO power station, built in 1999 and supplying one-third of the country's energy, uses natural gas produced off the coast of Ivory Coast. In 23 years, the project's capacity has grown nearly fivefold. After investing in new steam turbines in 2013, Ivory Coast became the first African country to use the combined-cycle system.

Will Ivory Coast develop a solar project with Emirati companies?

To date, Ivory Coast has inked agreements to develop two solar projects with the Emirati businesses Masdar and Amea Power, with capacities of 70 MW and 87 MW, respectively.

Is Ivory Coast a greener country?

After investing in new steam turbines in 2013, Ivory Coast became the first African country to use the combined-cycle system. This greener technique creates more power at a lower cost by recycling exhaust emissions. As new discoveries are made offshore, opportunities for expanding gas-to-power are promising. Transitioning to Green Energy.

How can Ivorian government make West Africa a regional electricity hub?

With the third-largest electricity system in West Africa, the Ivorian government is working towards making the country a regional electricity hub, and through the utilization of public-private partnerships (PPP) as well as the maximization of gas and renewable energy, the country is well on its way to achieving this goal.

## Ivory Coast grid enhancing technologies

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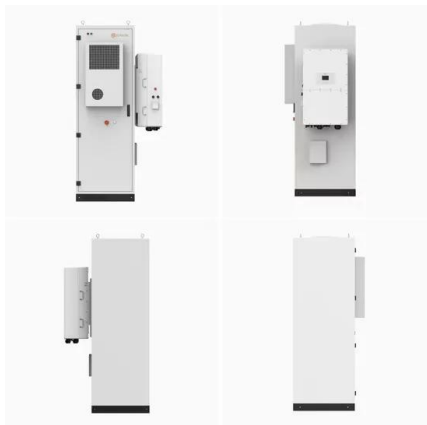


### [Battery Energy Storage Systems \(BESS\)](#)

Energy storage can provide support services to the electricity grid, or to an individual consumer behind-the-meter. Energy storage may be deployed as stand-alone systems or with power generation as part of a hybrid energy system or microgrid scheme. Energy storage is flexible, dispatchable and readily deployable at electricity grid level.

### Unlocking Power: A Playbook on Grid Enhancing Technologies ...

The U.S. Department of Energy found that we need 57% more transmission capacity by 2035 - it would be too expensive and take too long to build that many new power lines, so the grid needs new technologies to unlock more from the grid we already have. Grid Enhancing Technologies (GETs) are hardware, software, or both that dynamically increase



### The 50 States of Grid Modernization Q3 2024: States Consider ...

The report discusses three trends in grid modernization actions taken in Q3 2024: (1) states considering siting and end-of-life processes for battery storage, (2) regulators evaluating cost allocation for grid upgrades needed to interconnect distributed energy resources, and (3) states incorporating grid-

enhancing technologies into planning

## Baker Hughes hired for 'largest hydrocarbon discovery' offshore Ivory Coast

"This collaboration between Baker Hughes and Eni is Africa's first development project with clear Scope 1 and 2 carbon reduction goals and will deliver innovative technology that will enhance the energy security in Ivory Coast," said Maria Claudia Borrás, Executive Vice President, Oilfield Services & Equipment at Baker Hughes.

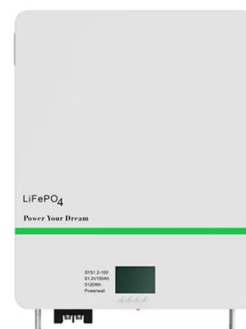


## Breadcrumb

The Office of Electricity has released Grid-Enhancing Technologies: A Case Study on Ratepayer Impact, a report focused on the impacts of integrating Grid Enhancing Technologies (GETs) onto existing transmission lines. GETs can defer or reduce the need for significant investment in new infrastructure projects and increase the use of renewables by ...

## Grid-Enhancing Technologies Improve Existing Power ...

Examples of Grid Enhancing Technologies: Dynamic Line Rating is hardware and/or software that updates the capacity of existing transmission lines in real time. Often, the technology establishes new limits to determine the true, real ...



[SENATE VOTE SUBJECT SUMMARY: this bill](#)



**SUBJECT:** Electricity: transmission capacity: reconductoring and grid-enhancing technologies  
**SUMMARY:** Requires transmission utilities to jointly prepare a grid-enhancing technologies (GETs) strategic plan that is designed to cost-effectively increase transmission capacity to

## What are GETs? - WATT

What are Grid Enhancing Technologies? Three technologies can transform the way the grid operates, enabling a reliable energy transition at least cost. GETs are hardware and/or software that dynamically increase the capacity, efficiency, reliability or safety of existing power lines, faster and at lower cost than traditional grid buildout. How do they work?



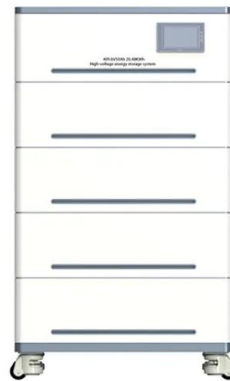
## The Role for Grid-Enhancing Technologies

Grid-Enhancing technologies (GETs) increase the capacity and flexibility of the electric transmission system. The combined value of dynamic line ratings (DLRs), advanced power flow control, and topology optimization makes the round hole of the transmission system square enough to handle twice as much renewable energy development as it can without GETs.

## H.R.7624

(a) Definition of developer.--In this section, the term "developer", with respect to grid-enhancing technology, means the entity that pays to install the grid-enhancing technology. (b) Establishment of shared savings incentive.--Not later than July

1, 2025, the Commission shall promulgate a final rule to implement section 219(b)(3) of the Federal Power Act (16 U.S.C. ...



## DOE Releases New Report on Accelerating Deployment of Grid ...

Thanks to this transformative funding, DOE is investing in the deployment of many advanced technologies identified in the Lifford report through the Grid Deployment Office's Grid Resilience and Innovation Partnerships (GRIP) Program, a \$10.5 billion grant program that is enhancing grid flexibility and improving the resilience of the power

## States consider cost allocation for grid upgrades and use of grid

The report discusses three trends in grid modernization actions taken in Q3 2024: (1) states considering siting and end-of-life processes for battery storage, (2) regulators evaluating cost allocation for grid upgrades needed to interconnect distributed energy resources, and (3) states incorporating grid-enhancing technologies into planning processes.



## Minnesota gives a boost to grid enhancing technologies



The Minnesota legislature has passed a bill adding grid enhancing technologies (GETs) to the state's transmission planning process. In terms of the bill, utilities owning more than 1,200km of transmission lines are required to report on highly congested areas and to evaluate the use of GETs on these, along with presenting a proposed

## "Grid-enhancing technologies" can squeeze a lot more power

...

During the process, FERC staffers wanted to avoid writing out the full names of the technologies in their documents. So, they coined a brand-new name--grid-enhancing technologies, or GETs--that was first publicly aired in a request for comments following a technical workshop in November 2019. "We were happy with it," Gramlich says.



## Frequently Asked Questions about Grid Enhancing Technologies

Frequently Asked Questions about Grid Enhancing Technologies What are Grid Enhancing Technologies? GETs are hardware and software that increase the capacity, efficiency and/or reliability of the transmission grid. Dynamic Line Ratings determine the true, real-time capacity of power lines, which is almost always higher than the static line ratings used widely today.

## 21 states, DOE launch initiative to spur grid-

## enhancing technologies

Utility companies like AES, Dominion Energy, National Grid and NextEra Energy are using grid-enhancing technologies and advanced conductors to add capacity and flexibility to the existing



## Enhancing compliance with deforestation-free regulations and ...

Enhancing compliance with deforestation-free regulations and enabling local participation with Ground: Insights from user experiences in Ivory Coast 05/05/2024 The European Union's Deforestation Regulation (EUDR) represents a step to reduce deforestation by mandating that companies and producers demonstrate that their products have not

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## Emerging Smart Cities Tech: Enhancing Urban Living in Ivory Coast

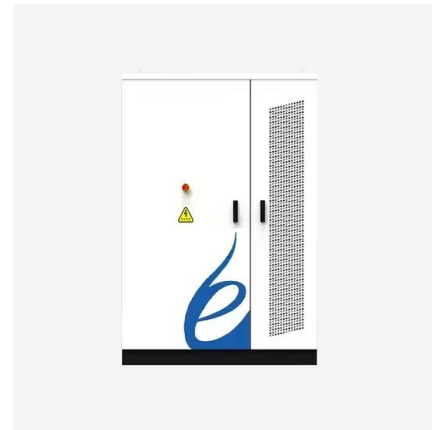
The integration of emerging smart cities



## **(PDF) Grid-enhancing technologies: Progress, challenges, and ...**

Grid-enhancing technologies (GETs) encompass a broad range of hardware and software tools that enable reconfiguration of the transmission grid and adjustment of its parameters. The proliferation of

technology in Ivory Coast marks a transformative shift towards sustainable urban development and improved citizen well-being. As Ivory Coast continues to leverage these innovations, it effectively addresses urban challenges while fostering economic prosperity and enhancing the overall urban living



## **Future Trends in Smart Grid Technology: Thing to Keep an Eye**

Grid modernization is the process of enhancing existing infrastructure through the integration of digital technologies to improve operational efficiency, reliability, and resilience. This involves deploying sensors, IoT devices, and advanced communication networks that facilitate real-time monitoring and automated management of the grid.

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