

Why is Morocco launching a smart-grid project?

Besides underpinning Morocco's renewables objectives, the smart-grid project supports USTDA's global partnership for climate-smart infrastructure, which seeks to support clean transport and energy infrastructure projects in emerging markets, such as Morocco. Read Also: [Votalia To Build Two 177-Megawatts Solar Plants in Morocco](#)

How can Atos support the Moroccan energy grid transition?

With more than 40 years of experience in the energy sector and an unwavering commitment to the decarbonization of our clients' activities, Atos is ready to fully leverage the expertise of its NetZero Transformation Competence center to support the Moroccan energy grid transition for the benefit of the country's citizens.

What is Morocco's energy strategy?

Within this framework, Morocco launched in 2009 a national energy strategy whose major orientations focus on the security of energy supply and the generalization of its access, the preservation of the environment, through the use of renewable energy, energy efficiency, the strengthening of interconnection and regional cooperation.

Can Morocco build a liquified natural gas pipeline?

In 2018, USTDA provided Morocco with a grant to finance the country's feasibility study for the development of liquified natural gas (LNG) infrastructure. US Lixia Capsia Gestionis conducted the study to assess the prospects of building an LNG import terminal and degassing facility that could be linked to the Maghreb-Europe Gas Pipeline (MEG).

Are smart grids a key component of USTDA's Climate-Smart Infrastructure portfolio?

"Smart grids are an important component of USTDA's climate-smart infrastructure portfolio," said Enoch Ebong, USTDA's Director, stressing their role in advancing "power sector efficiency and facilitat [ing] the integration of renewable sources of power, including rooftop solar, into the grid."

Will Morocco enter the LNG market after MEG closed in 2021?

With the closure of MEG in 2021, Morocco announced its plans to enter the LNG market. Today, the North African country is using the closed transnational pipeline to transport regasified imported LNG to Spanish stations. The United States is reportedly the sole exporter of LNG to Morocco.

The development of the Smart Grid in Morocco does not reach maturity as in Europe or the North of America. The paper is organized as follows. Section 2 presents the smart grid in Morocco; Sect. 3 discusses the obstacles to the development and implementation of smart grids in Morocco. Section 4 presents recommendations and solutions to remove ...

The presentation shows the AIT Smart Grid Converter (SGC) Controller featuring SunSpec protocol support utilizing Hardware-in-the-Loop (Typhoon HIL.). Major highlights of the AIT Smart Grid ...

Le village de Tahala abrite l'un de ces projets novateurs : 'Smart Grid Tahala' est un réseau de distribution autonome utilisant de l'énergie solaire et un système de communication bidirectionnelle permettant aux habitants de ...

Solving economic dispatch and unit commitment problem in smart grid system using eagle strategy based crow search algorithm R Habachi, A Touil, A Boulal, A Charkaoui, A Echchatbi Indonesian Journal of Electrical Engineering and Computer Science 14 (3 ...), 2019

The cost of electricity, denoted as  $c_{ost}(E_{grid\ total})$ , is determined according to predefined ranges of energy consumption (refer to Fig. 2) [6]:  $c_{ost}(E_{grid\ total}) = 0.801$  if  $0 \leq E_{grid\ total} \leq 100$   $0.953$  if  $100 < E_{grid\ total} \leq 210$   $1.059$  if  $210 < E_{grid\ total} \leq 310$   $1.235$  if  $310 < E_{grid\ total} \leq 510$   $1.454$  if  $510 < E_{grid\ total} < \dots$

Analysis of Public Electric Vehicles Charging Impact on the Grid: Morocco Case Study Boulakhbar Mouaad<sup>1,2(B)</sup>, Abouddrar Imad<sup>3</sup>, Kousksou Tarik<sup>1</sup>, and Zazi Malika<sup>2</sup> <sup>1</sup> Université de Pau et des Pays de l'Adour, E2S UPPA, SIAME, Pau, France mouaad.boulakhbar@univ-pau <sup>2</sup> Université Mohammed V, <sup>3</sup> École Nationale Supérieure d'Arts et Métiers Rabat, Rabat, Morocco

Smart grids have several advantages in terms of reducing the environmental impact of generating power from fossil fuels due to their capacity to integrate large amounts of distributed energy resources. On the other hand, smart grid technologies ...

In this paper, the authors presented a suitability study of V2G technology in the Moroccan national electric grid, presenting global state of art in the V2G concept, and going ...

grid ("smart grid"). Atos and Siemens are working on deploying a smart energy metering platform that will allow ONEE to efficiently process the data collected by more than 100,000 smart meters that will be installed across the country, thus optimizing energy consumption and management of the national grid while meeting Morocco's growing ...

This paper presents the design and simulation of a bi-directional battery charging and discharging converter capable of interacting with the grid. The proposed converter enables Electric Vehicles (EVs) not only to charge their batteries from the grid but also to discharge excess energy back into the grid through the Vehicle-to-Grid (V2G) operating mode. The work discusses charger ...

Abstract: Like any other industry sector in Morocco, the electric power industry is facing challenges involved with the increasing demand for interconnected system operations and control under the restructured electrical

industry due to deregulation of the electrical market and the trend of the Smart Grid (The Ministry of Energy, Mines, Water and Environment for ...

Some strategies to overcome the challenges facing smart grid deployment in Morocco will also be presented. Then, the long-term energy demand, generation capacity, and renewable energy evolution in ...

Green hydrogen. In Power-to-X projects such as hydrogen electrolysis, VACON NXP Grid Converter gives you the high-efficiency power conversion with low harmonics that you need. Scalable power conversion supports you to grow ...

This paper proposes an effective control synthesis strategy to stabilize grid forming converters in the presence of disturbances. The conventional control system for a grid forming converter is based on paralleled and cascaded proportional-integral (PI) controllers, which are widely used in the industry due to their simplicity and reliability.

?Doctor of Electrical Engineering, Hassan II University of Casablanca, Morocco? - ??? ???? 79 ??? - ?renewable energy? - ?Nonlinear Control? - ?Power Quality and Smart Grid observation of converters.?

The Smart Grid (SG) is a promising solution solving the energy crisis issues and the mismatch between energy offer and demand. This can be achieved through the integration of reliable, cost-effective and secure data communication networks to manage the complex power systems efficiently. This paper presents an advanced study of the SG platform and its implementation in ...

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