

Global PV Storage Insights

Total investment cost of office building energy storage project in Egypt



Overview

The total cost of the project is estimated at \$650 million. Around 80% will be funded through project debt, while the remaining amount will come from equity investments. Scatec owns 100% of the project but plans to bring in additional equity partners.

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This research highlights the role of smart building technologies in increasing energy savings of office buildings in Egypt, taking into consideration their incremental cost. Based upon data available on Excellence in Design for Greater Efficiencies (EDGE) website, association rule has been applied.

British International Investment (BII), the UK's development finance institution and impact investor, has signed over \$300 million in agreements to support two pioneering renewable energy projects in Egypt – a new 1.1 GW Gulf of Suez Wind Farm and a 1.1 GW integrated solar and battery storage.

Abstract: The energy performance in two administrative office buildings in Egypt is evaluated. One building is a traditional classic building while in the other building the designer consider energy efficiency and solar energy generated power contribution to the power required. The office buildings.

Oslo/Cairo, 15 June 2025: Scatec ASA has reached financial close for the “Obelisk” hybrid solar and battery storage project in Egypt. The non-recourse project financing comprises USD 479.1 million provided by the European Bank for Reconstruction and Development (EBRD), African Development Bank.

The project aims at providing the scientific, technological and policy basis required for the development and implementation of large-scale energy storage in Egypt, enabling increased penetration of renewable energy sources in the Egyptian energy system. In order to achieve the project targets, the.

The energy project will encompass a 1GW solar and 100MW/200MWh battery storage hybrid project, the first of its kind in Egypt. Construction on a solar and battery storage hybrid project in Egypt is set for the first half of 2025. The project will encompass a 1GW solar and 100MW (200MWh) battery. What is a large-scale energy storage project?

The project aims at providing the scientific, technological and policy basis required for the development and implementation of large-scale energy storage in Egypt, enabling increased penetration of renewable energy sources in the Egyptian energy system.

Can smart building technologies improve energy performance of existing office buildings?

In addition, the wireless capability of many smart building technologies makes them retrofit friendly and decreases installation costs compared with wired technologies . The research investigates the impact of applying smart building technologies on energy performance of existing office buildings in Egypt.

Can office building retrofit reduce energy consumption?

Maatouk Khoukhi et al. selected an office building in UAE as a case study of the retrofitting of an existing office building to achieve lower energy consumption. They concluded that the upgrading in HVAC system and the use of variable air volume (VAV) can save energy by 8.49% .

Could smart technologies be the optimum solution for retrofitting existing buildings?

That is why it can be concluded that smart technologies could be the optimum solution for retrofitting existing buildings to safeguard our environment especially onsite renewable energy that could be integrated in existing office buildings with minimum intervention.

Can smart-orientated retrofitting improve energy savings of office buildings?

Based on this analysis, the research proposes five smart-orientated retrofitting scenarios to increase energy savings of the selected office building. The potential use of some smart building technologies in retrofitting existing buildings could be restricted as a result of different constrains.

Can office buildings be energy-efficient?

Shiyu Wan et al. suggested a framework for sustainable energy-efficient retrofits of office buildings in Beijing, China. They deduced that improvements in lighting and air-conditioning systems can reduce the total energy consumption of a large office building by around 8–13% .

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Sustainable large-scale energy storage in Egypt

The project aims at providing the scientific, technological and policy basis required for the development and implementation of large-scale energy storage in Egypt, enabling increased ...

BII, AfDB and EBRD support pioneering solar and battery storage project

Egypt's first integrated solar and battery storage plant developed by Scatec will deliver dispatchable clean energy, enhance grid stability and manage peak demand BII's ...



Scatec signs PPA for large-scale solar-plus-storage ...

Norway's Scatec Asa has signed a 25-year power purchase agreement (PPA) with Egypt Aluminium for a 1.1 GW solar plant with 100 MW/200 MWh of battery energy storage. The agreement has been billed

Scatec begins construction of 1.1 GW Obelisk solar ...

Scatec has commenced construction of its 1.1 GW Obelisk solar and 100 MW/200 MWh battery storage project in Egypt. The energy will be sold

under a USD-denominated 25-year Power Purchase Agreement (PPA) with ...



Energy storage(KWh)
102.4kWh
 Nominal voltage(Vdc)
512V
 Outdoor All-in-one ESS cabinet



Scatec Locks In \$479M Financing for Egypt's 1.1 GW Solar + 100 ...

Scatec ASA has reached financial close for the "Obelisk" hybrid solar and battery storage project in Egypt. The 1.1 GW solar plus 100 MW/200 MWh battery energy ...

Scatec starts building 1.1GW solar project and battery ...

Norwegian renewable energy company Scatec has started constructing the 1.1 GW Obelisk solar project in Egypt and a 100 MW/200 MWh battery energy storage system, the company said in a statement on May 5. The project will ...



Benban solar park, Egypt, world's biggest solar ...

Benban is touted to become the biggest solar photovoltaic park in the world, upon completion. State-owned New and Renewable Energy Authority (NREA) is overseeing the 1.8GW project, which includes a number of ...

Egypt Expands Renewable Energy with Solar and Storage Projects

Egypt has several renewable energy projects in operation. The Benban Solar Park in Aswan has a total installed capacity of 1.8 GW and is one of the largest solar parks in ...



Energy Conservation in Existing Office Building: Case study ...

Therefore, the aim of this study is to evaluate the energy performance in two administrative office buildings in Cairo, Egypt using ENERGY STAR thus providing recommendations to enhance ...

Towards a sustainable energy future for Egypt: A systematic ...

This study demonstrated that small hydropower projects could be established in many places across Egypt to provide a good energy alternative with a total energy generation ...



Scatec starts building 1.1GW solar project and battery storage ...

Norwegian renewable energy company Scatec has started constructing the 1.1 GW Obelisk solar project in Egypt and a 100 MW/200 MWh battery energy storage system, the company said in ...

2022 Grid Energy Storage Technology Cost and ...

Recycling and decommissioning are included as additional costs for Li-ion, redox flow, and lead-acid technologies. The 2020 Cost and Performance Assessment analyzed energy storage systems from 2 to 10 hours. The 2022 Cost and ...



Early Warning System

This project is significant for Egypt, as it introduces one of the first utility scale BESS in the country and its implementation will pave the way for a broader rollout of storage ...

Egypt

A high-profile example is the Government of Egypt's building of a massive "New Administrative Capital" 30 miles east of Cairo. The first phase of the project, which includes all ...



EBRD, AFDB and BII support pioneering solar and ...

Egypt's first integrated solar and battery storage plant will deliver dispatchable clean energy, enhance grid stability and manage peak demand Part of the loan will benefit from a European Fund for Sustainable Development first ...

Egypt: AfDB Approves \$184.1 Million for Africa's Largest Solar Energy

The project's total cost is estimated at more than \$590 million. The Bank Group's financing package includes \$125.5 million of ordinary resources, as well as concessional ...



Egypt Energy Sector

FOREIGN DIRECT INVESTMENT The dynamic growth of the Egyptian economy (around 7% before the COVID-19 crisis), its strategic geographical position, low labour costs, skilled ...

Exploring the potential of nearly zero energy retrofitting for generic

This research aims to explore the potential of achieving nZEB levels through retrofitting office buildings' typical prototypes in Cairo, Egypt, with basic designs, layouts, and ...



AfDB, EBRD and BII support pioneering solar and battery storage project

(AfDB)-Egypt's first integrated solar and battery storage plant will deliver dispatchable clean energy, enhance grid stability, and manage peak demand. It is expected to ...



BII signs over \$300 million in agreements to accelerate green ...

The agreements reflect BII's investment plan to accelerate Egypt's energy transition and build climate-resilient infrastructure that stimulates growth in North African ...



Egypt to develop 10 GW of renewable energy projects ...

Speaking at the event, Al-Mashat highlighted the energy component of the NWFE Program, which aims to decommission 5 gigawatts of thermal power plants while attracting \$10 billion in investments to develop ...

Scatec Secures Financing for Groundbreaking Hybrid ...

A Strategic Vision: The Obelisk project is poised to become Egypt's first integrated solar photovoltaic and battery storage project of this magnitude, ushering in a new era for energy generation in the country.

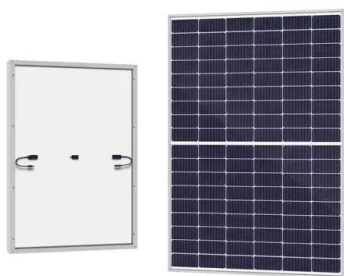


MENA Solar and Renewable Energy Report

In collaboration with: The Middle East and North Africa saw 2019 again confirm the growth and importance of commissioning large projects and launching additional phases of their renewable ...

Energy storage systems impact on Egypt's future energy mix with ...

High renewable energy penetration targets cannot be achieved without more reliance on energy storage technologies. This study provides a long-term techno-economic ...



Thermal Energy Storage in Commercial Buildings

Space heating and cooling account for up to 40% of the energy used in commercial buildings.¹ Aligning this energy consumption with renewable energy generation through practical and ...

Egypt

In March 2025, the Investment Opportunities Platform of the General Authority for Investment and Free Zones in Egypt launched a project to build the world's largest green hydrogen plant in partnership with the Ministry of Military ...



- IP65/IP55 OUTDOOR CABINET
- OUTDOOR CABINET WITH AIR CONDITIONER
- OUTDOOR ENERGY STORAGE CABINET
- 19 INCH

Energy Storage Cost and Performance Database

The U.S. Department of Energy's (DOE) Energy Storage Grand Challenge is a comprehensive program that seeks to accelerate the development, commercialization, and utilization of next-generation energy storage ...

Egypt signs letter of intent to join Battery Energy Storage Systems

CAIRO - 3 December 2023: Egypt signed a letter of intent to join the Battery Energy Storage Systems Alliance (BESS), which is one of the main initiatives of the Global Energy Alliance for ...



Energy storage costs

Energy storage technologies, store energy either as electricity or heat/cold, so it can be used at a later time. With the growth in electric vehicle sales, battery storage costs have fallen rapidly ...

Egyptian solar set to expand beyond the massive 1.8 ...

In this edition of the Weekend Read, we turn to Egypt. The gigawatt-scale Benban project showcases the North African country's solar potential, and premium prices for gas exports make the case

TAX FREE

Product Model
 HJ-ESS-215A(100KW/215KWh)
 HJ-ESS-115A(50KW 115KWh)

Dimensions
 1600*1280*2200mm
 1600*1200*2000mm

Rated Battery Capacity
 215KWH/115KWH

Battery Cooling Method
 Air Cooled/Liquid Cooled



China New Energy Abroad: CEEC Largest Solar Storage Plant in Egypt

On December 14, 2024, the largest integrated photovoltaic and storage power station in Egypt, which was built by China Energy Construction, officially started construction in this area. The ...

Egypt: African Development Bank to provide \$184.1 million for ...

Source: African Development Bank Group (AfDB) , Jun 12, 2025 Egypt: African Development Bank to provide \$184.1 million for Africa's largest solar energy and battery ...



Major Renewable Energy Projects in Egypt

ASSIUT GOVERNORATE Biogas Plant Owner: Bioenergy Association for Sustainable Development (BASD, Egypt) Capacity: N/A Location: Assiut Status: BASD and National Bank ...

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