







BUILD_ME Training: Introduction of the BUILD_ME Project and the BEP Tool







26 October 2021



and Nuclear Safety



Agenda



Welcome – 5 mins



Introduction and Situation of climate-friendly buildings in Egypt – 20 mins



Introduction to BUILD_ME Project – 15 mins



Introducing the BEP tool - 15 mins



Break - 10 mins



GGF – 15 mins



EBRD/GEEF Project in Egypt -20 mins



Discussion and Wrap-up – 20 mins







Technical instructions Working together effectively

- Presentation will be published on our project website afterwards.
- The session will be recorded.
- We look forward to your active participation.
- Please stay muted but feel free to write your questions in the chat box or raise your hand.
- Please be punctual after the break.
- For technical problems/questions, reach out to:

Rana Abouzeid at rana.abouzeid@idg.com.eg OR

Doha Moharram at doha.moharram@idg.com.eg





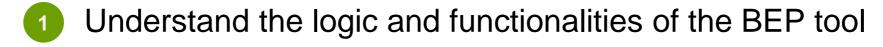


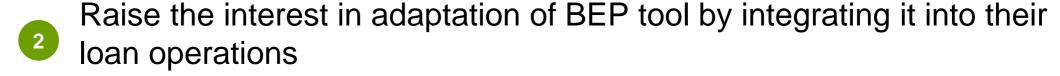


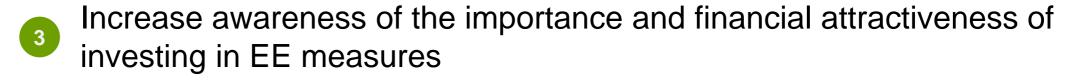


Objectives of the training session

For financial institutions







Increase interest in collaborating with existing on-lending facilities to EE projects







Introduction and Situation of climate-friendly buildings in Egypt







Setting the scene – the relevance of climate-friendly buildings

The building sector offers cost attractive measures to cut down GHG emissions



Economic

- Cost-efficient abatement
- Energy price development
- Energy security



Environmental

- Rising temperatures
- Extreme weather events
- Droughts



Social

- Job creation
- Removal of subsidies
- Public health & productivity



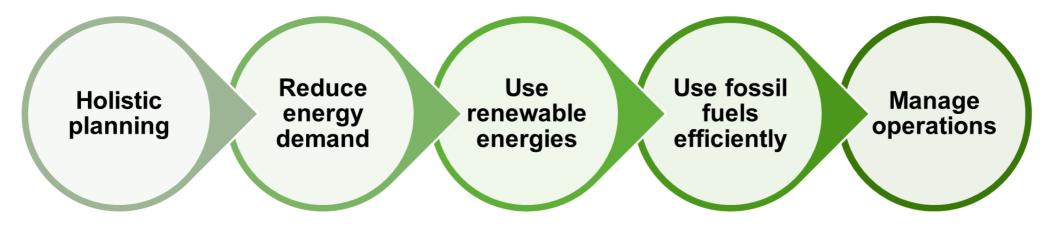


What are climate-friendly buildings?

Definition

"A 'green' building is a building that, in its design, construction or operation, reduces or eliminates negative impacts, and can create positive impacts, on our climate and natural environment. Green buildings preserve precious natural resources and improve our quality of life." (S: World Green Building Council)

General principles to conceive a low energy building embedding Trias energetica, "The most sustainable energy is saved energy"







Why are climate-friendly buildings relevant for financial institutions?

Green buildings becoming more and more a billion dollar market

"Green buildings represent a major global investment opportunity, with buildings making up the largest segment of the **US\$ 231** billion energy efficiency market."



"During the next decade, green buildings represent a significant low-carbon investment opportunity in emerging markets **\$24.7 trillion** by 2030."...



"Global green building materials market size is expected to reach \$377,029 million by 2022 from \$171,475 million in 2015 with a CAGR of 11.9% from 2016 to 2022....







What is the status quo of climate-friendly buildings in Egypt?

Opportunities

- Huge construction activity and increasing energy demand
- 2. Strategies and Regulative framework available
- 3. Increase of energy price
- 4. Market offers all relevant technologies
- 5. High solar radiation
- Decrease of investment costs for PV







Challenges

- Lack of defined Baseline
- 2. Low number of built climate-friendly buildings
- Financial Institutions don't prioritize climate friendly buildings

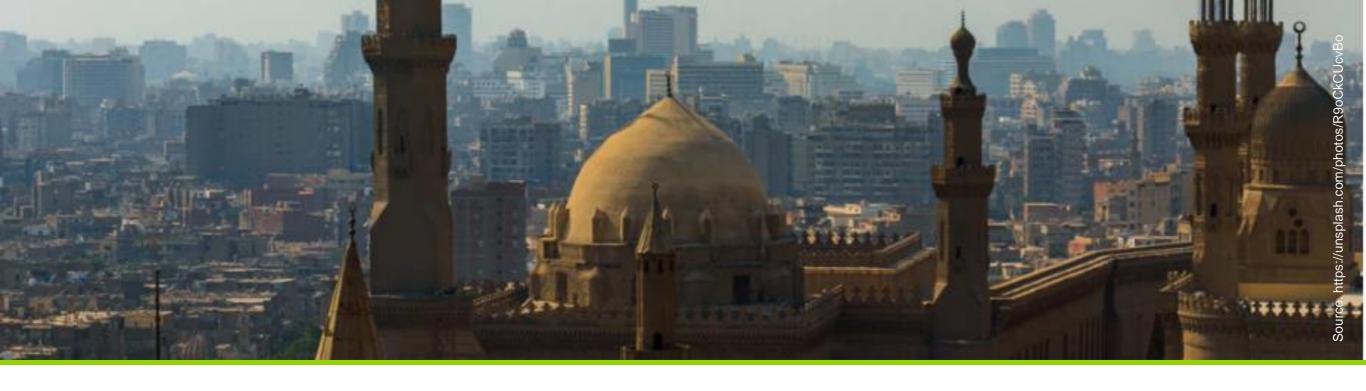












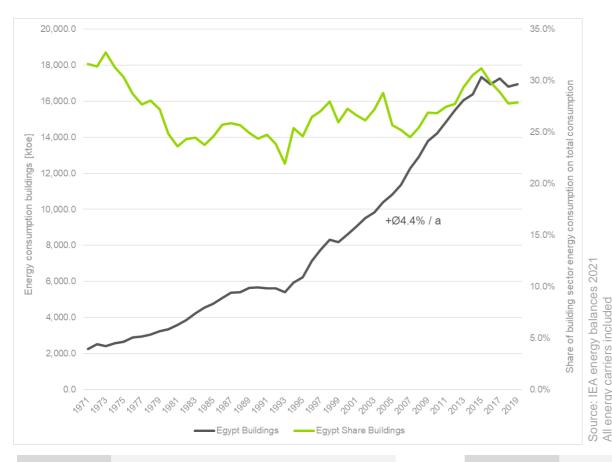
Opportunities for climate friendly buildings in Egypt

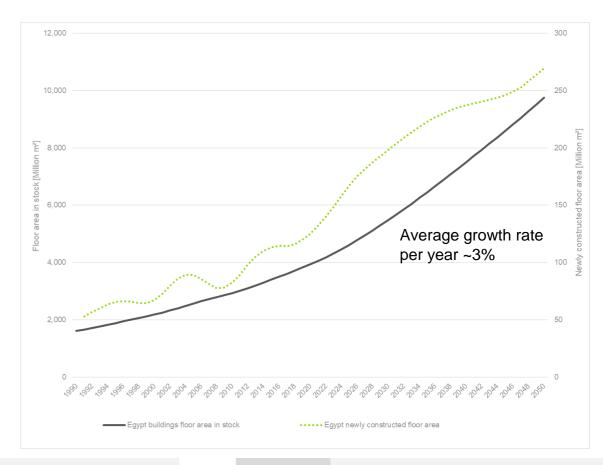




Huge construction activity and increasing energy demand

The energy consumption of the buildings sector in Egypt is and will stay highly relevant





30% share for the building sector (energy consumption)

4% yearly increase of energy consumption

future yearly growth of new buildings

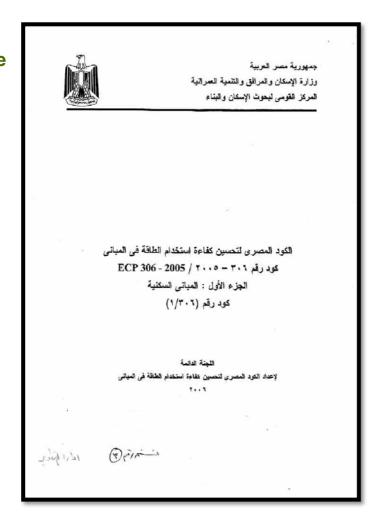


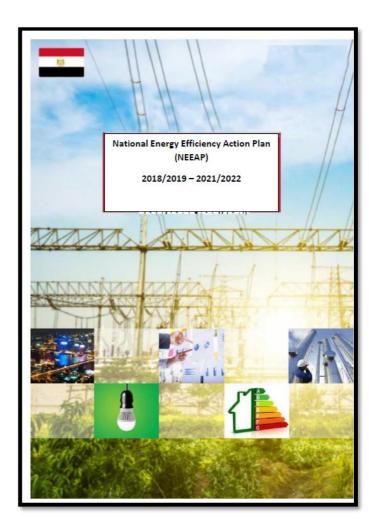


Established regulative framework

Strategies and Regulative framework available

Energy Efficiency Residential Buildings Code (EERBC)





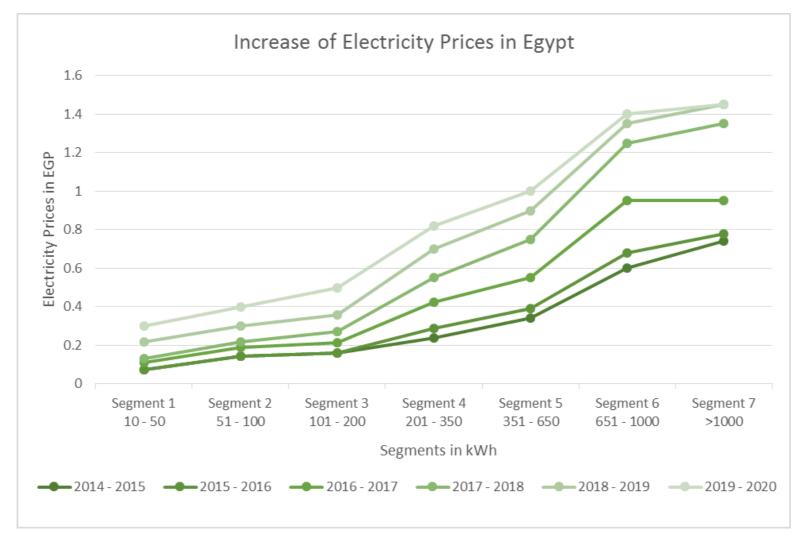
National Energy Efficiency Action Plan (NEEAP)





Increase of energy (electricity) price in Egypt

Development of energy price 2014 - 2020

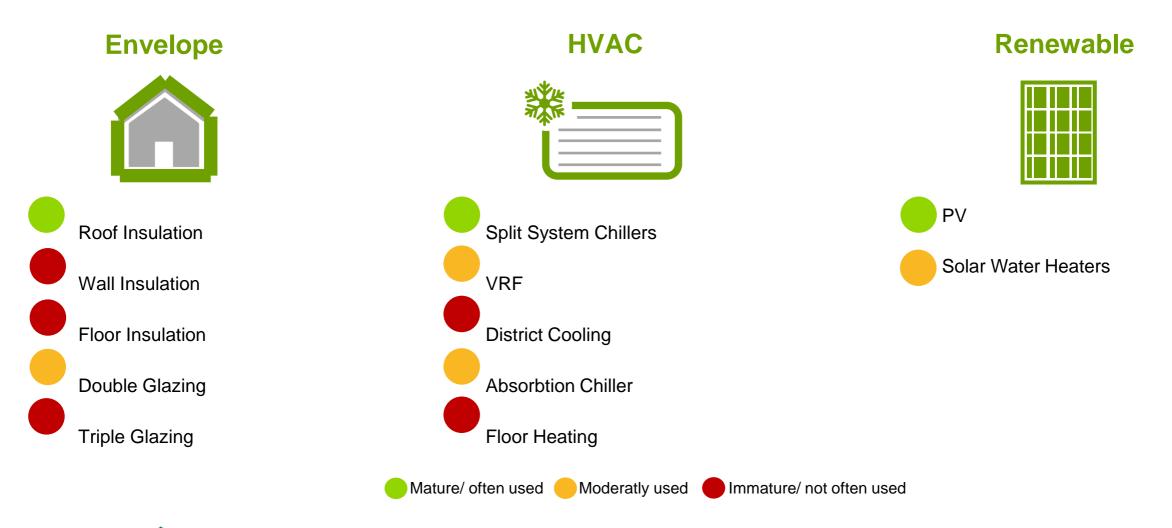






Market availability of EE/RE technologies

Maturity and awareness of EE / RE technologies, despite availability

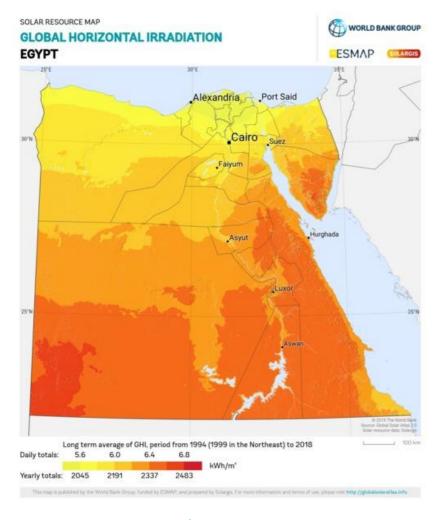




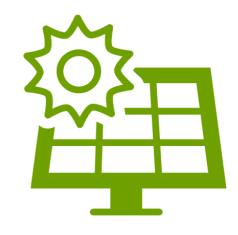


High solar radiation

Leads to a great potential to exploit solar energy opportunities







Solar thermal systems

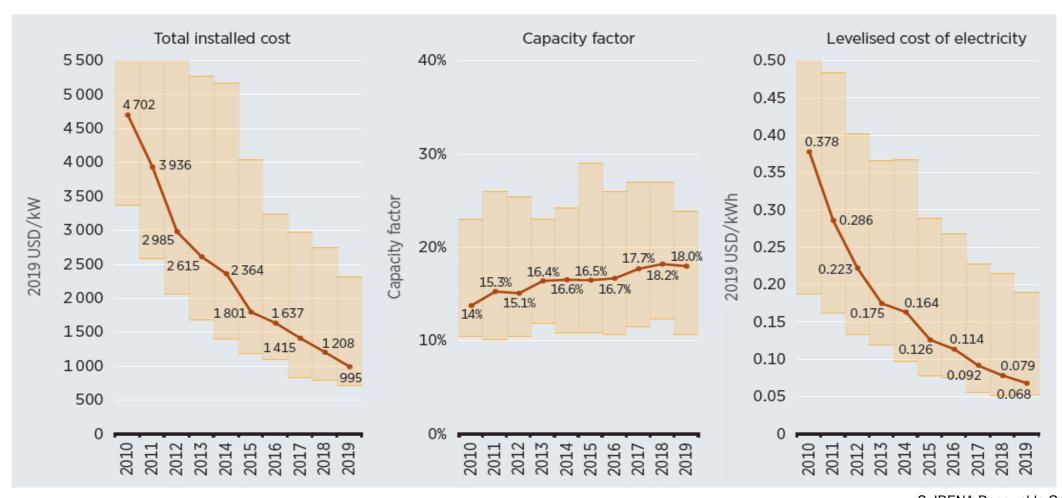
Photovoltaics





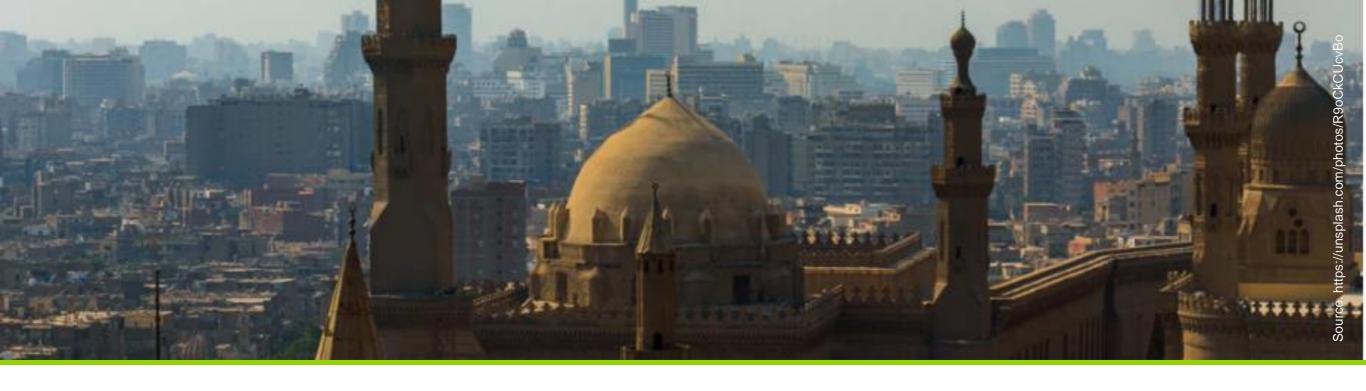
Development of Photovoltaics (PV), S: IRENA

Global weighted average total installed costs, capacity factors and LCOE, 2010 - 2019









Challenges for climate friendly buildings in Egypt





Lack of baseline and enforced EE building codes

Creates a bottleneck for FI's to finance climate-friendly buildings

Lack of enforcement of EEBCs

Lack of data about BaU constructions

No benchmarking of buildings' energy performance

Lack of

energy consumption baseline

Bottleneck

To finance energy efficient buildings





Certified Green Buildings in Egypt

Available green building certificates (international and national) are not picked up sufficiently

Tarsheed: Less than 5 Certified Buildings



Tarsheed

- Royal Herbs Farm Complex
- Al Wahat al-Bahareya, Egypt
- Certification Earned: Tarsheed

GPRS: Less than 10 Certified Buildings



GPRS

- CIB Building
- Smart Village, Egypt
- Certification Earned: GPRS

LEED: Less than 30 Certified Buildings



LEED

- Business Link Headquarters
- New Cairo, Egypt
- Certification Earned: LEED





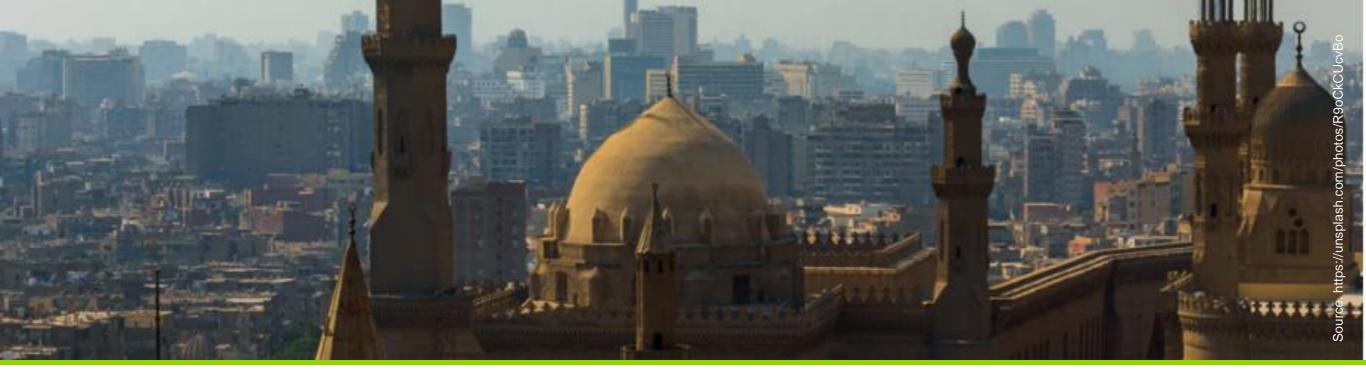
Financial Institutions don't favour climate-friendly buildings Energy efficiency in the building sector is perceived as not attractive

- Projects are often too small scale
- Lack of demonstration projects
- Lack of business model that could be used as reference
- Process of assessing energy efficiency measures in buildings is complex
- No scalability









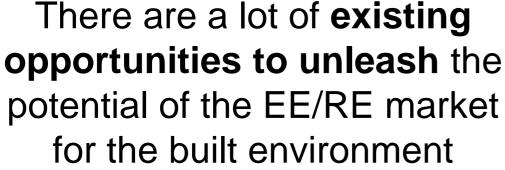
Conclusion for climate-friendly buildings in Egypt





Conclusion

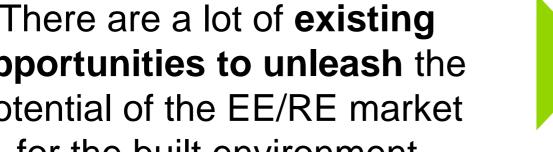


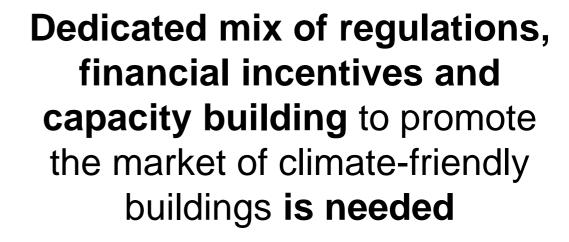
















Current Trends

Urban Development

Energy Sector

Current Trends & Mega Projects

New Cities

Construction of 20 Fourth Generation Cities in Egypt



Mobility

Modern network of roads & public transportation



Housing

Introducing huge stock to the housing market



Mega RE Projects

Developing mega RE projects such as solar parks and wind farms



RE & EE Legislations

Development of "Feed-In Tariff" then "Net-Metering" as a step towards more open Energy market



Foreseen Opportunities

Introduction of new infrastructure, local management & governance schemes

Optimized mobility, transportation and connectivity Creates
an opportunity
for Macroeconomic
Model for
Energy Efficiency

Expanding cleaner energy production could encourage implementation of RE at smaller scales Development of extensive codes & local rating scheme (GPRS) into more user and sectororiented tools





Introduction of the BUILD_ME Project

Dr. Norhan El Dallal, IDG







Overview about the project

Fund

Scope



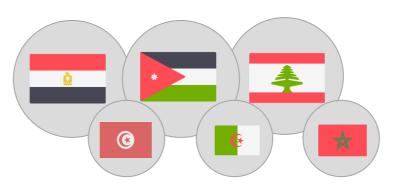


IKI International Climate Initiative, German Federal Ministry of Environment

Supported by:



based on a decision of the German Bundestag





1st Phase: 2016 - 2018

2nd Phase: 2019 - 2021





























BUILD_ME scope

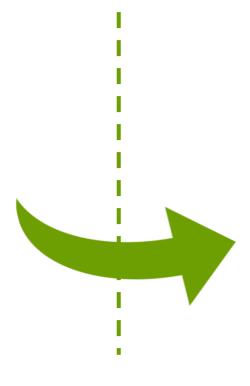
Approach



Original project

2016 - 2018

- Extensive analysis and research
- Identification of barriers
- Recommendations





Project extension

2019 - 2021

- Implementation of recommendations
- Dissemination of results
- Upscaling





1. Easier access to financing for energy efficient buildings

How to design and finance an energy efficient project?









- ✓ [25]% energy saving in comparison with **baseline**
- Financing available at local bank

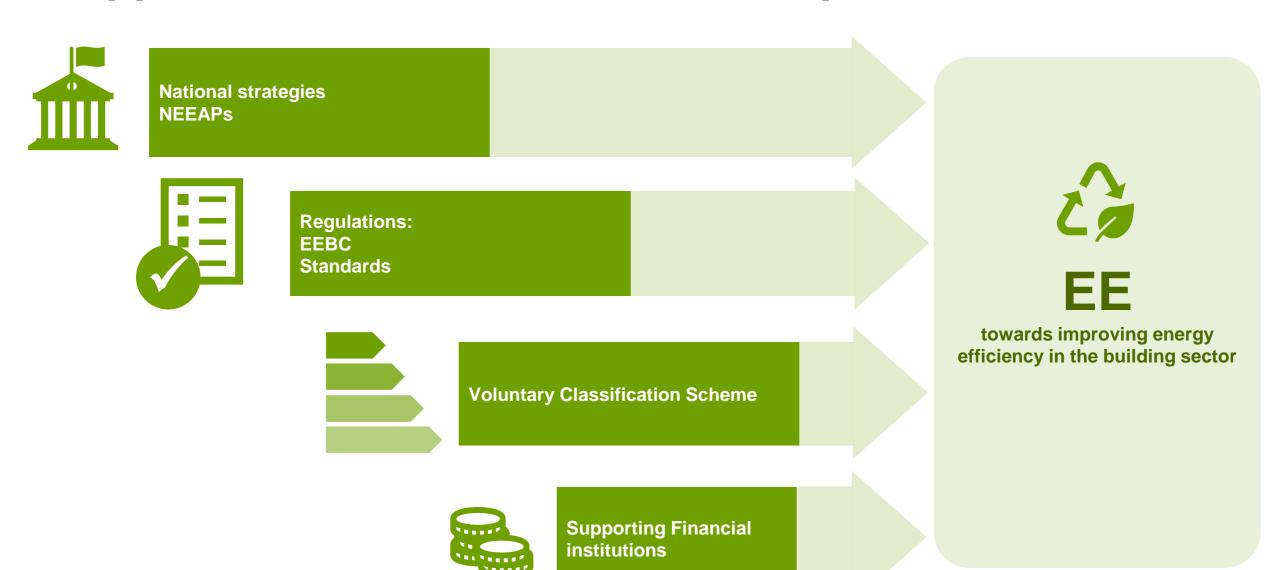
Intermediating bank grants credit based on trusted classification scheme

Project is realised as energy efficient building





2. Support the reform & transitions of political frameworks







3. Support the implementation of energy efficiency measures in pilot projects

Technical support for pilot projects







Policy work

To connect the challenges and lessons learnt with the policy frameworks activities



Test the tool

To test and improve the BEP tool with real-life examples



Test the classification scheme

The national classification scheme will allow for better access to the available green finance programs



Facilitating finance

Support the PP in their application (if any).



Capacity building

Provide training on EE and RE





4. Increase awareness and capacities [EE/RE in Buildings]





BUILD ME Project Update

About this newsletter

With this inaugural newsletter, the BUILD ME team aims to inform you about project happenings, inspire you to connect with us and other stakeholders in the region, and share information about project outputs and resources.

If you have any questions about the information provided, please don't hesitate to contact us at build me@guidehouse.com.

Email newsletter

We are happy to announce that the new BUILD_ME project website is now available at https://www.buildings-mena.com/. On this site you can find a wealth of information about the project and resources to download,

COMING SOON: Additional tools will be added to the website soon! These include a building energy performance (BEP) tool, buildings typology database for the region, and a demonstration project database pilot project profiles, project news and more

News from the recent Phase II kick-off workshops

In the first quarter of 2020, the BUILD ME team kicked off Phase II of the project with workshops in Amman and Cairo. In the case of Lebanon, kick-off meetings were conducted virtually. With these workshops, BUILD_ME aimed to engage with key stakeholders on project findings to date, reach a joint understanding of the goals and activities of the project going forward, and obtain input from stakeholders on their

Click on the links below to find out more about each workshop and download the



Structure of Phase II

Approach

Objectives and Goals

- Facilitate & increase access to financing & funding opportunities for EE building projects.
- Support the reform & transitions of political frameworks towards improving energy efficiency in the building sector.
- Focus on supporting the implementation of energy efficiency measures in pilot projects

WP1 Preparatory Steps

- Software tool: energy performance & cost-effectiveness
- Building Typology
- Buildings specifications & reference values

WP2 Support Pilot Projects

- Technical support
- Collect insights on the ground as input for WP3
- Testing EE classification scheme
- Support financing applications

WP3 Framework Conditions

- Voluntary EE classification scheme
- Facilitate & increase access to financing
- Building codes
- Support national strategies (NEEAPs)

WP4
Capacity
Building and
Dissemination

 Website, workshops, trainings, database for best practice buildings, webinars, newsletters, brochures, etc.







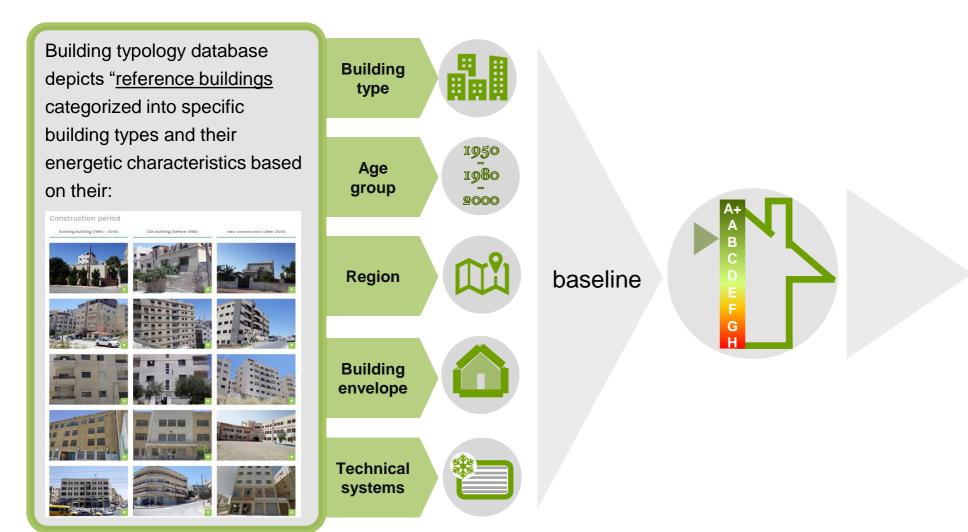
Zoom into Building Typology





Building Typology

What is meant with building typology and why it is needed?









Building Typology | Egypt

Results



Building type

- Multi-family house
- Single-family house
- Education
- Retail/Trade
- Office
- Mixed-use
- Hospital
- Hotels



Age group

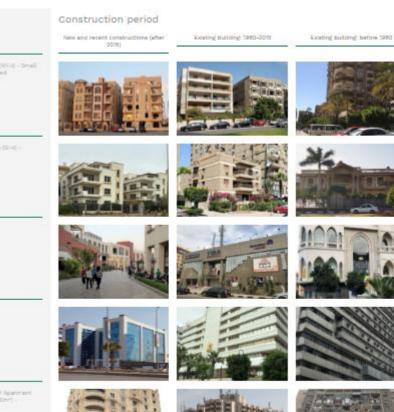
- New and recent constructions (after 2015)
- Existing building: 1980-2015
- Existing building: before 1980



Regions

- National
- Cairo
- Alexandria
- Aswan

Typology Midt Family House (WV4) - Small & WCERT) - detacted Single Family House (SFR) - detached















Link to the typology on BUILD_ME website







Zoom into Baseline





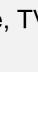
Baseline | Egypt

Illustrating energy intensity of select Egyptian building types

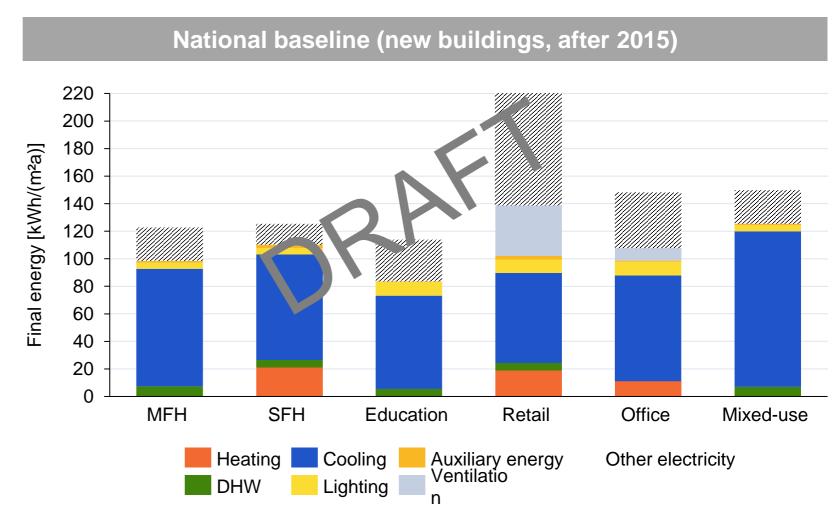
Key takeaways

- Specific final energy demand ranges between 115 – 220 kWh/(m²a) for buildings constructed over the past decade
- Space cooling accounts for largest energy demand
- Space heating is only installed in less than 50% of the cases
- Note: Other electricity stands for plug-loads (e.g. fridge, TV, etc.) and is informational.

Guidehouse









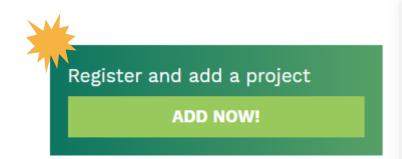
Diving into the demonstration project database (DPD)





Demonstration project database

Crowd-sourced examples from the region



- Searchable database of practical inspiration
- Welcome input from project developers, architects or contractors from across the region





Orange Call Center

designed to accommodate at least 1400 agents, with highest standards, and to have all appropriate facilities within the office spaces of the building to operate on 24 hours base for

Location: Gizo, Egypt Project contact: Dr. Moemen Afify



Arab Technical Group "ATG" Headquarter Building

ATG is an engineering trading company that offers high-quality products and innovative solutions for the heating, cooling & renewable energy markets. With customer service and satisfaction at the core of ATG mission, ATG adhere to the highest proficiency standards and redibility to ensure the delivery of top class environmentally-friendly and energy saving clutions to guarantee the delivery of the highest comfort levels to ATG discerning clients in

Location: Amman, Jordan Project contact: Eng. Falsal Abdallat

1285 mg | Unknown | 6 stories



Business link Headquarters Bureau 175

The project is an office building located in New Cairo, in a distinguished plot in the 5th settlement with streets on the front and on the side, which enables the building to face the vehicles coming in its direction

Location: New Calro, Egypt.

Project contact: Medad Consultant Engineers

Fort Arabesque Re

Building Envelope Visit https://www.buildings-

mena.com/info/demonstration-projects-database

Location: Hurghada, Egypt Project contact: Bassant Saad

250000 m2 | 1997 | 1 story



Dawar El Ezba Cultural Center

Located at the heart of Cairo, the dawar el exba Cultural Center aims to bring recreational and educational activities to the people of Ez' bet Khairallah. The Center consists of a kitchen that offers vocational training for women, an art studio for kids, and a theatre space for multipurpose activities. The building seeks to retranslate the architectural language of the area through using local materials and aims to become a living agent within its context.

Project contact: Dawar For Arts and Development

318 mg | 2019 | 4 stories

Basement floor

Description of construction

Project info

Construction phase

Detailed building type

Original construction year of the building 2009

Building type

Net floor area

Project contact

Contact email address

Developer(s)/owner(s)

Architect(s)

Project team

Construction contractor(s)

Rating and certifications systems

1 Basement floor

New construction

Dr. Moemen Afify

Moemen@maconsultants-eg.com

Office

12500 m2 4 stories

Orange

Nextep

Building Rating and Certifications systems

MA Consultants

Non-residential building

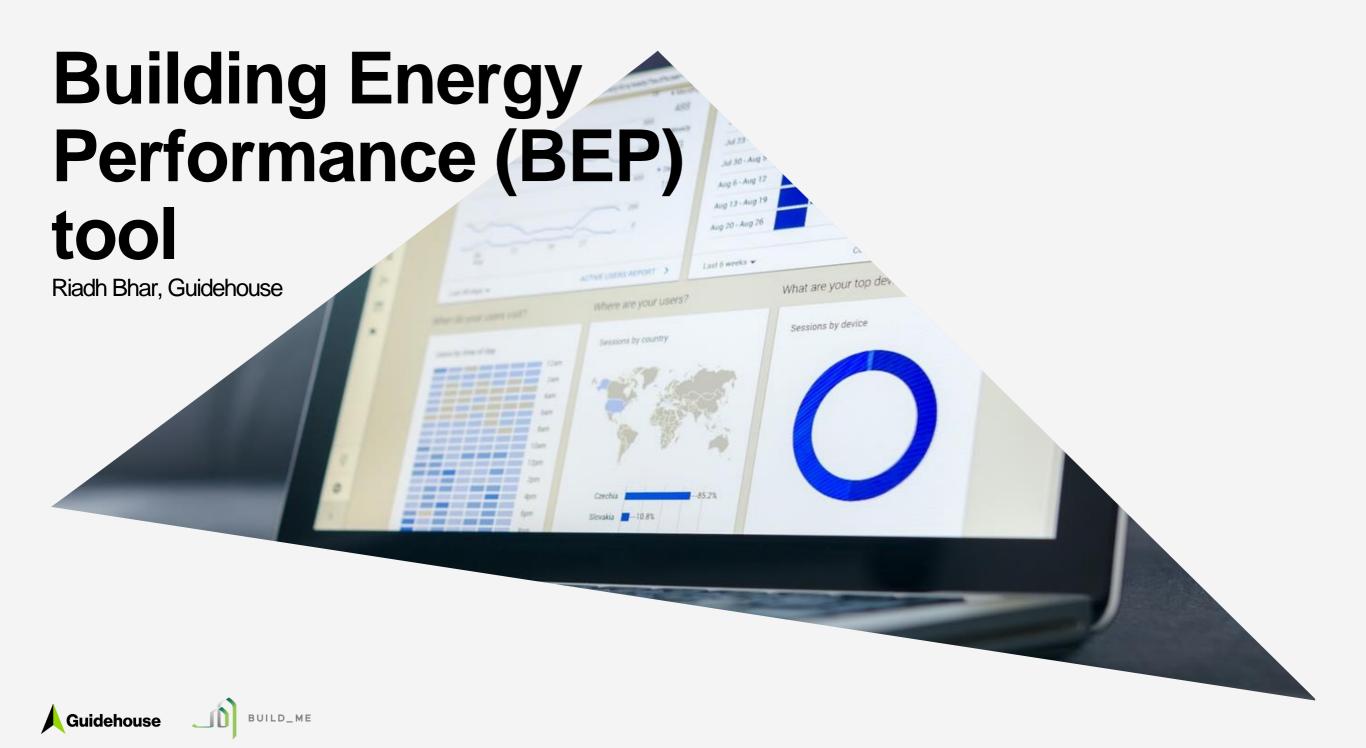
Technical Building Systems

Ventilation system

Type of ventilation

Final Energy Demand

Energy carrier (1)



Logic of the BEP tool

Customisable, transparent, adapted to the MENA region



Performance of energy efficiency measures & RE

- Calculate energy demand of building
- Compare it to the country's baseline buildings or other personal projects
- Determine the energy savings of single or multiple efficiency measures and the use of renewable energies



Calculation of monetary savings

- Identify cost savings resulting from the energy efficiency measures and get the costoptimal case
- Local market data is already available for Egypt, Jordan and Lebanon (investment cost, energy prices) ...
- ...or enter the real investment cost and energy prices of the specific project (not in beta)



Free web application

- Tool is free to use as browser application
- Optimized for mobile devices
- Provides default input values for faster application, but also advanced mode for experienced user



Proven methodology

- Energy calculation is based on the international norm for modelling thermal building performance (EN ISO 52016)
- The BEP-Tool was already successfully applied in various projects and countries
- Full transparency with a detailed user manual, incl. all calculation steps and internal assumptions.





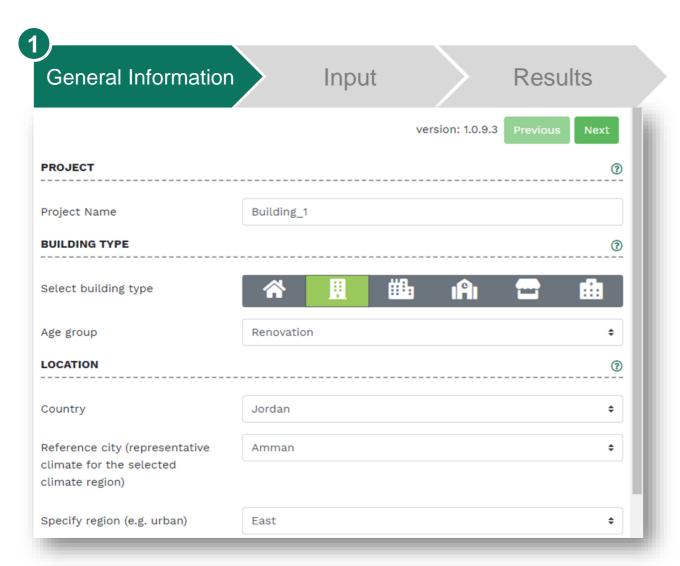
Calculation methodology

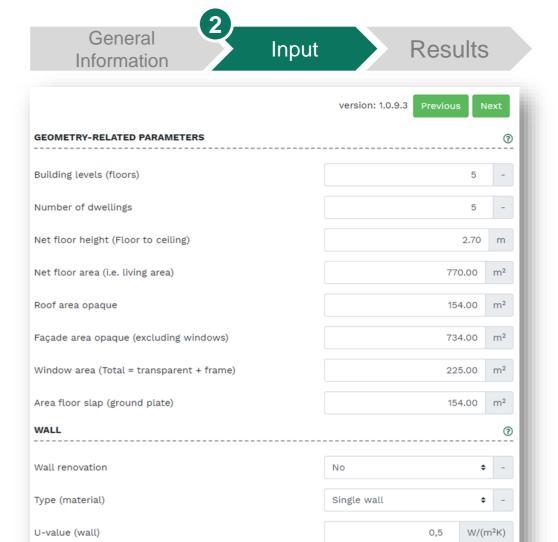
Calculation engine Input Output **User input Energy & Emission Energy** Final energy demand Building Useful energy demand Final & primary energy HVAC Tool • ISO 52016 demand... • Geometry Envelope • per en ergy carrier (e.g. • OP gas) • Climate • per energy use Sizing HVAC & RE (e.g. cooling) Primary energy demand systems specific (kWh/m²) and HVAC and HVAC Tool RE systems total **GHG Emissions GHG Emissions** • CO₂ equivalent Internal database **Global Cost Financial Financial** Investment cost Global cost Other cost • Envelope (e.g. • Specific cost Investment Inspection and insulation) Energy Energy cost maintenance • HVAC and RE HVAC systems Inspection and Replacement systems • Renewable energies maintenance • Type and age Replacement Country **Energy cost** • Energy carrier (e.g. gas) ▲ Guidehouse Energy prices





Online Web App - Input



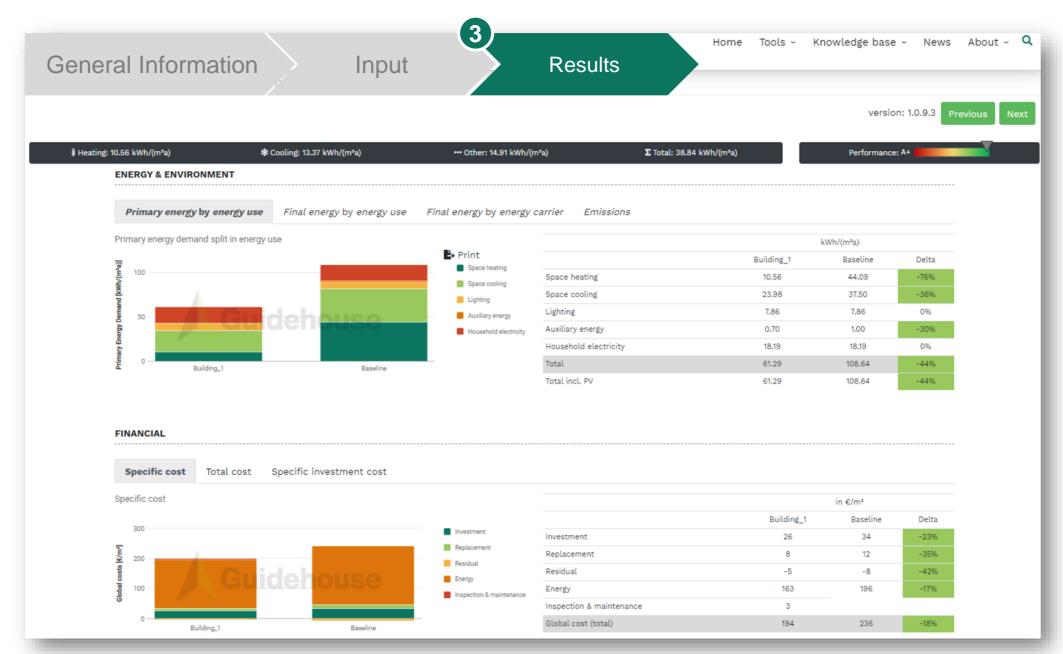






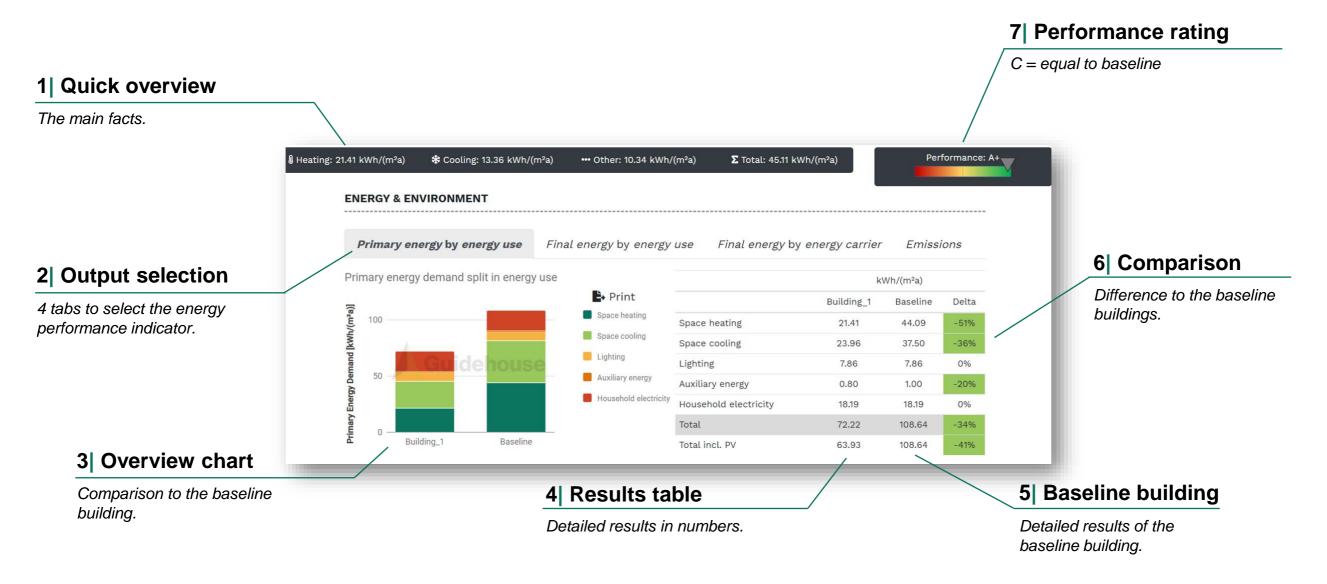
?

Online Web App – Results





Online Web App – Results detail







Tested BEP Tool with 13 supported pilot projects

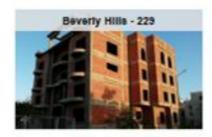
Project developer confirmed convincing result illustration and user friendliness

Lebanon Egypt Jordan

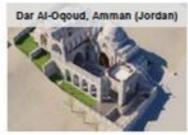




























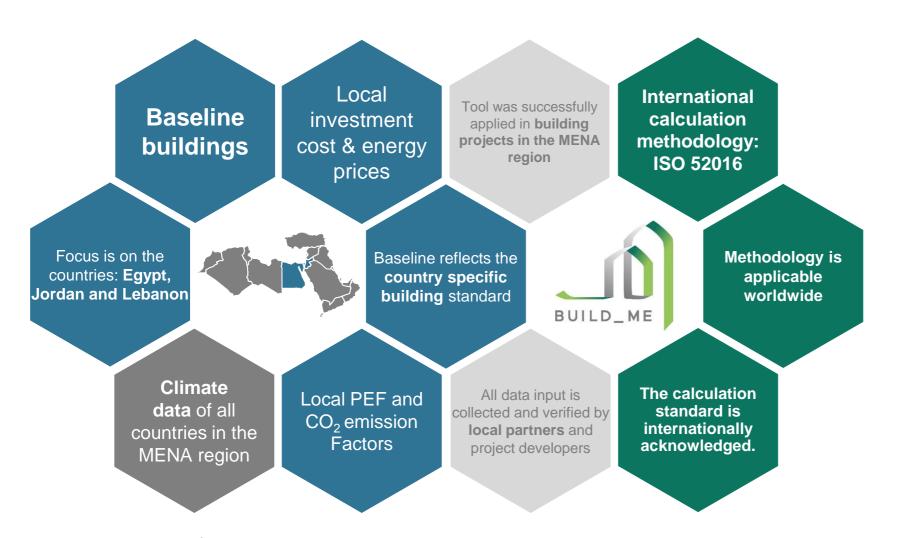






Conclusion of BEP Tool

Database from local partners & international calculation methodology





Internal market data is collected from local partners for Egypt, Jordan and Lebanon.



International energy calculation methodology.



Country specific climate data, incl. multiple climate zones within each country.











Green for Growth Fund "GGF" in Egypt

Mayar Khaled Rigel Valenzuela







INVESTING IN ENERGY & RESOURCE EFFICIENCY AND RENEWABLE ENERGY

An Introduction to the Green for Growth Fund (GGF)

October 2021



THE GREEN FOR GROWTH FUND

- is an impact investment fund that mitigates climate change and promotes sustainable economic growth in Southeast Europe,
 Caucasus and in Middle East and North Africa
- initiated by the EIB and KfW, and supported by a diverse group of international financial institutions and private investors.
- provides funding to financial institutions to mainstream sustainable investments and makes direct investments in renewable energy projects and other energy service providers.



THE GGF TECHNICAL ASSISTANCE FACILITY

The dedicated TA Facility provides **know-how and technical expertise** to ensure investments are successfully
and carefully implemented. It **raises awareness** on the **importance of energy and resource efficiency** and **builds capacity in the markets to deliver green finance**.

TYPES OF PROJECTS

- Capacity-building to financial institutions: build long-term and sustainable commitments to green finance
- Support to (RE) projects: assistance to meet international E&S standards; E&S studies, impact assessments, bankability support
- Awareness-raising and enabling markets: events and outreach initiatives, marketing support, stakeholder engagement etc.





WHY THE GGF

Scope & Approach

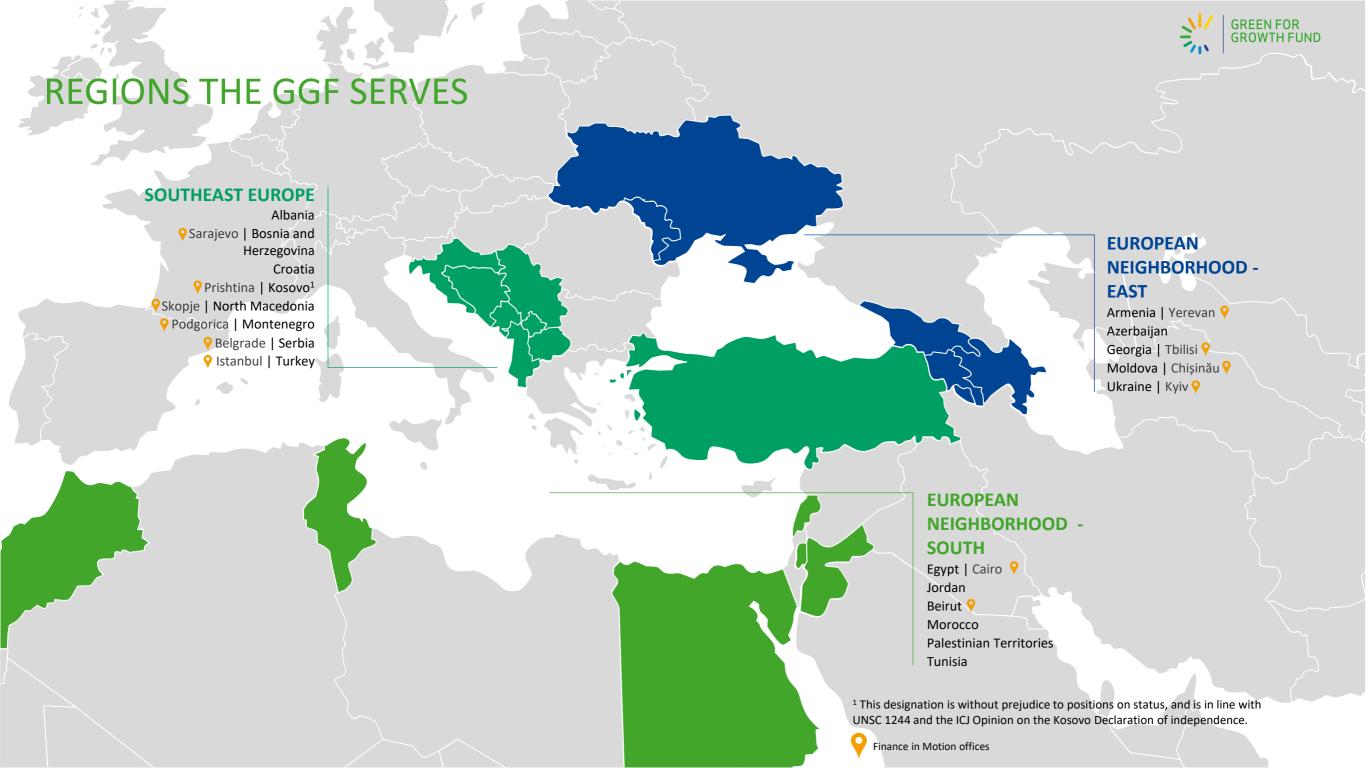
- Combination of financing and tailored technical assistance
- Wide range and flexible choice of technologies and projects
- Proven approach in 19 countries
- Offers products and structures needed by markets

Regionally Embedded

- Physical presence in the region
- Strong local knowledge and experience
- Commitment to build long-term partnerships
- Willing to be a first mover in new markets and types of investments

Efficiency

- Professional management and quick delivery
- Dedicated and responsive client relationship management
- Tailored impact approach with software for reporting and eligibility





GGF IN EGYPT

GGF in Egypt

- The fund was established in 2009, and closed its first investment in 2016.
- The fund's investments in Egypt are mainly directed to promote Energy Efficiency, Resource Efficiency and Renewable Energy via the Fund's Partner institutions in Egypt.
- In 2020, GGF has provided its partner institutions with a **Green recovery package** to support them and their clients during the COVID-19 crises via widening the eligibility criteria to include **working capital loans**, **Loans to essential services and New Energy Efficient equipment**.

Total investments

- The fund currently has a total number of **5 debt investments** to financial institutions including 4 banks and 1 Leasing company and **2** investments for **Renewable Energy** in the **Benban Solar Park** under the **project finance umbrella**.
- Total disbursed investments as of date stand at USD 135m with an outstanding portfolio of USD 104.4m as of Q3 2021.
- The fund also provided Technical assistance projects in Egypt reaching a total of 32 projects with a total cost of USD 1.04m.

Sub-Loan Portfolio

- The Sub-loan portfolio as of Q2 stands at **USD 140.4 m** to a total of **103 Sub-loan** since inception.
- The Sub-loan portfolio resulted in the below savings since inception:
- CO2 savings: 115,953 tons of CO2/year
- Energy savings: 536, 918 MWh/year
- Nexus savings: 96,503 tons of waste/water/material/year



THE FUND AND ITS INVESTORS

Legal Form

Luxembourg-based specialized investment fund (SICAV-SIF)

Inception

December 2009



Current Investors



European

KFW

Investment



FMO











Raiffeisen









TA Facility Donors





The GGF falls under Article 9 of the Sustainable Finance Disclosure Regulation (SFDR). For relevant disclosures, visit the GGF website: https://www.ggf.lu/investors.

Proven Excellence





PARTNERS AND ELIGIBILITY CRITERIA

Eligibility Criteria

- Minimum 20% reduction in primary energy consumption
- Minimum 20% reduction in CO₂ emissions
- Promotion of renewable energy
- Flexible criteria for resource saving projects that also have an energy/CO₂ savings component.

Financial Institutions

- Local commercial banks
- Non-bank financial institutions, such as microfinance institutions and leasing companies
- Other selected financial institutions

Direct Investments

- Renewable energy projects
- Energy service companies
- Corporates
- Other non-financial institutions





IMPROVING RESOURCE EFFICIENCY VIA PARTNER INSTITUTIONS

Broad spectrum of measures

Insulation Improvement:

often below EUR 1,000



Retail



Boiler Replacement: typically between EUR 2,000 – 5,000

Process Machinery
Replacement:
EUR 50,000 - 250,000



SME



Agri-equipment
Replacement:
EUR 15,000 – 250,000

Process Improvements:
often over
EUR 1 million



Corporate



Renewable Energy
Projects:
up to EUR 10 million

Street Lighting: up to EUR 10 million



Municipalities



District Heating/ Waste treatment up to EUR 10 million





PROVIDING FINANCING FOR EE CONSTRUCTION AND GREEN MORTGAGES



Eligible types for GGF financing

- New or renovated apartments/buildings can be eligible if they show < 80% of the maximum acceptable required energy either against national requirement for new construction (Egyptian building code)
- Green Consultant conduct assessments
 - required information from client/developer, approach is fine-tuned in collaboration with the partner institution
 - Technical support is fully covered by GGF TAF

Other Requirements

- Construction finance for green buildings is eligible with up to 50% of construction cost excl. land costs, and up to EUR 10mln can be reported to GGF. Post construction assessment required.
- Green mortgages: max. sub-loan up to EUR 500k

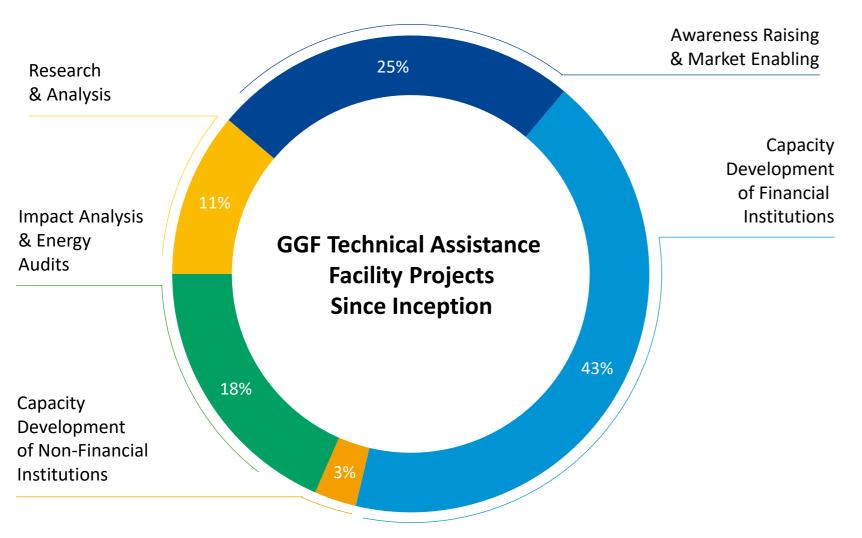


02 Facility

The GGF Technical Assistance



GGF TECHNICAL ASSISTANCE FACILITY KEY FIGURES



Tailored Technical Assistance focused on developing partner capacities

- 385 TA projects since inception with project volume of EUR 15.5 million
- Support to 84 partners through more than 138 consultants (local and international)
- 6,861 persons trained
- Committed Technical Assistance Facility funding of EUR 27.9 million

62 | As of 31 December 2020



TAILORED TA TO FINANCIAL INSTITUTIONS

GGF offers its partners a wide variety of different TA support

Capacity-building activities supporting sustainable lending operations at partner institution

Typically a combination of TA support across the different categories

Training & Capacity Building

- RE project finance (project DD services and trainings)
- Trainings and conferences
- Environmental and social management system
- Staff Green finance trainings



Business Development

- Product strategy & development
- Sector workshops
- Marketing campaigns
- Green Advisory support for end-clients



Reporting Support

- Provide and train on monitoring & reporting tool eSave
- Consultant services for eligibility and environmental & social assessments of projects







Targeted marketing campaigns for green housing

DEVELOPING A GREEN HOUSING PRODUCT

Scope of Work (Examples)

- Support to financial institutions to develop their green finance offerings
 - E.g., structuring a green mortgage product
- Development of marketing and awareness-raising campaigns to promote green products
- Sponsoring cooperation with project developers to develop business ecosystem and strengthen standards (e.g., certifications)

Objective and Benefit

Enhance the PI's visibility and promote investment opportunities





SUPPORTING GREEN BUILDING CERTIFICATION

Green building certification to foster sustainable investments

Objective

- Promote green buildings and scale-up certifications
- Clients and project developers can use certification as part of awareness-raising and marketing efforts
- Support the institution in financing green buildings

Scope of Work

- Assess status of construction standards and recommend eligibility criteria
- Provide expert advisory services to clients, including certification and audits of projects



THANK YOU FOR YOUR ATTENTION!



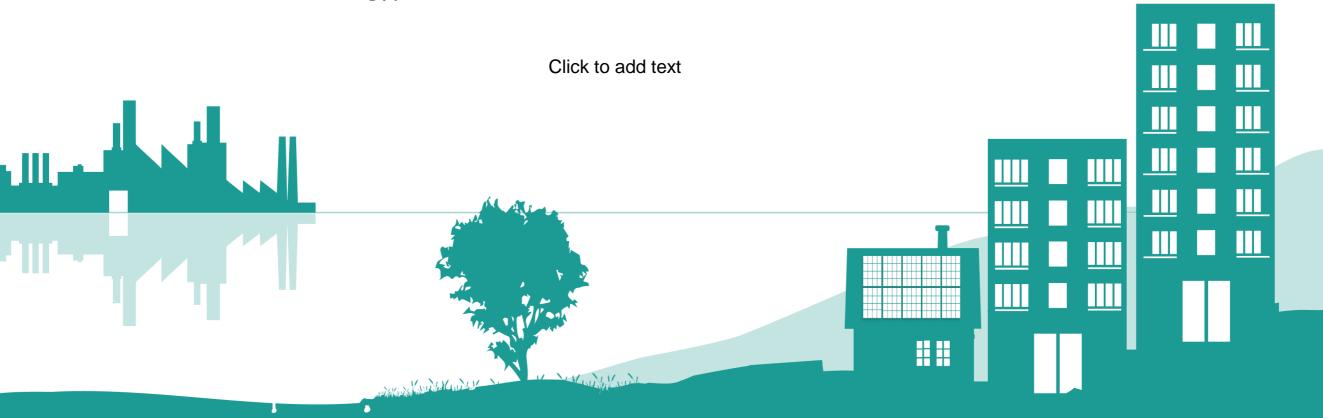






EBRD Green Financing Products

Overview of Facilities in Egypt



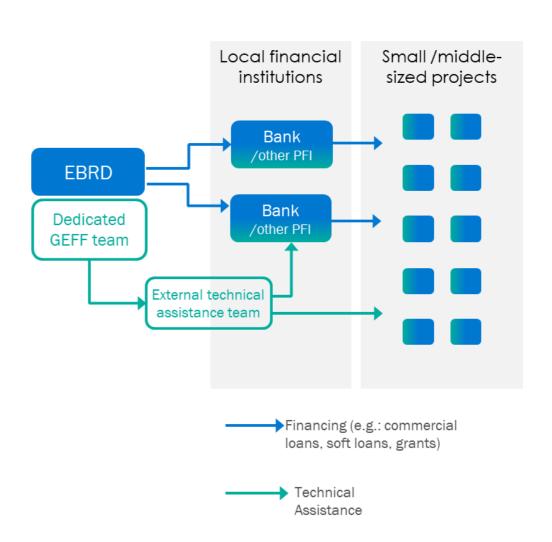


The business model

Through GEFFs, the EBRD offers credit lines to local partner financial institutions (PFIs) to finance small and mid-sized green projects.

GEFFs bring together:

- Credit lines to be channelled to end-borrowers with preferential financing conditions
- Technical assistance: support PFI to recognise green opportunities, enhanced marketing outreach, targeted green financing products
- Project development support: direct assessment of larger-scale opportunities; online databases of pre-approved technologies for small-scale projects





Bringing together development partners





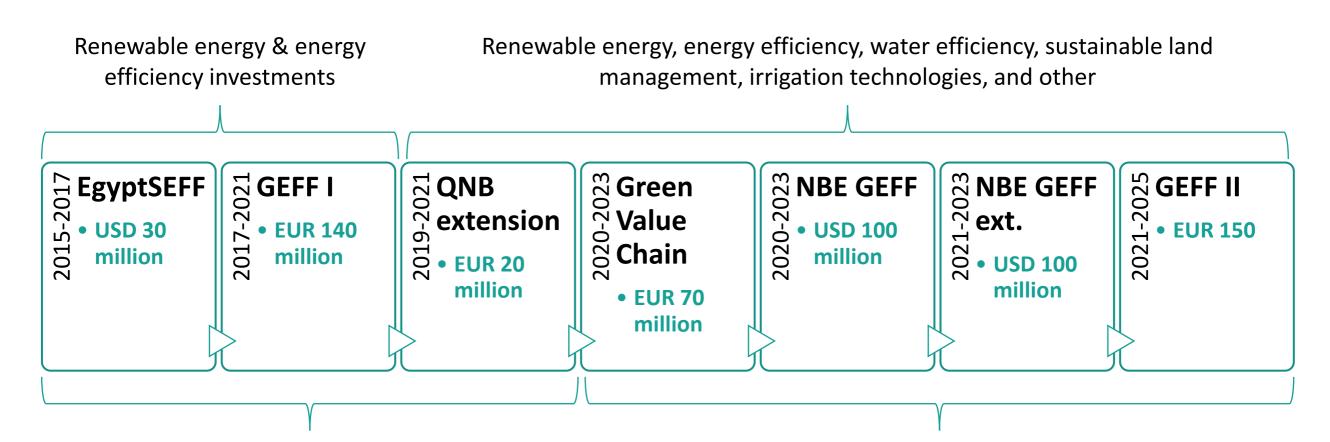








From \$30 million pilot to >\$600 green credit lines supporting the private sector



SMEs and large corporates

SMEs only (EU definition)



EBRD Green Financial Products

Parameter	GEFF Egypt	Egypt Value Chain	NBE GEFF	GEFF II
Beneficiary	SME and Large	SME*	SME*	SME*
Participating Financing Institutions	QNB, AAIB, Alex, NBK (utilized)	QNB, (undisclosed]	NBE	QNB, NBK
Sectors	Private sector	Part of Value Chain	Private sector	Private sector, Retail
Eligible Investments	Mitigation	Mitigation and adaptation +	Mitigation and adaptation	Mitigation and adaptation
Max Sub-Loan Amount	\$5 million	€1 million	\$5 million	\$5 million
Incentive Grant	10%-15%	10%	-	10%-15%
Interest Rate	Commercial	Commercial	Corridor +0	Commercial

^{*} SME definition per EU guidelines: Turnover up to €50 million, Manpower up to 250 (no minimum)



Our partners in success

and more to come





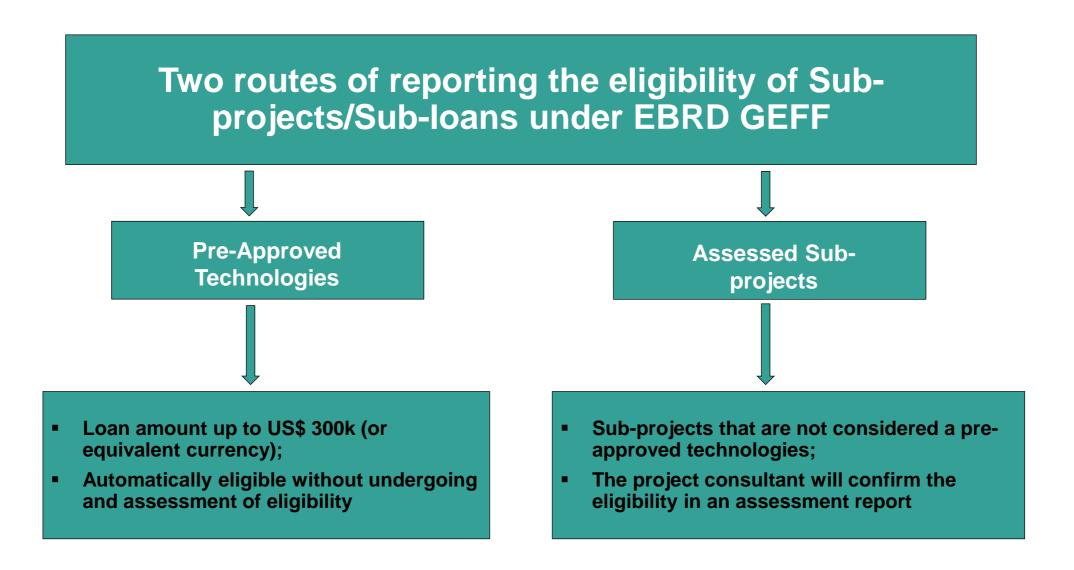






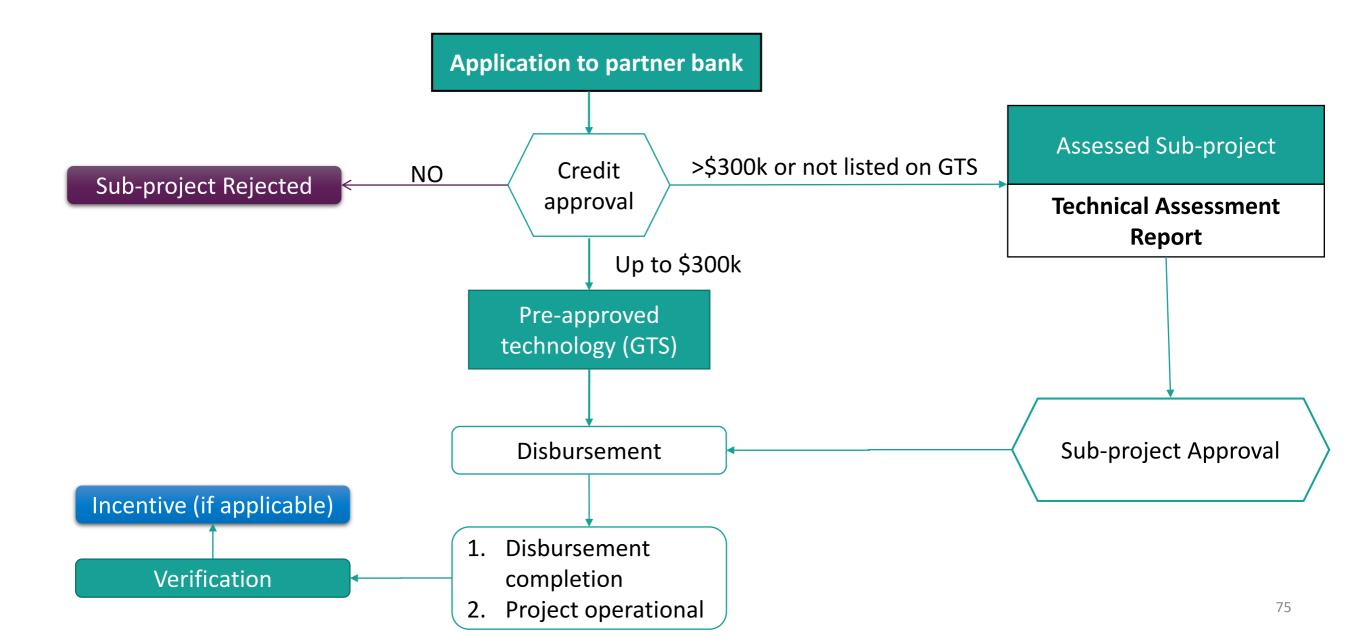






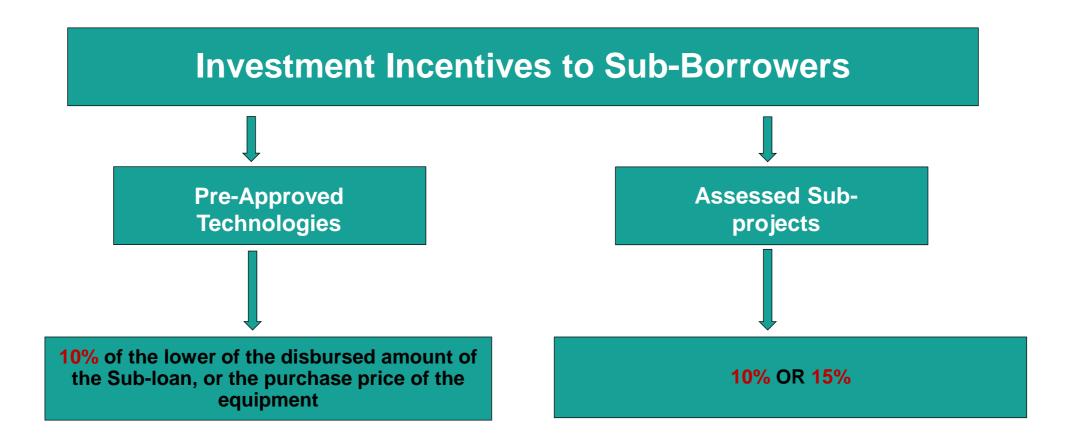
Standard loan cycle





Investment Incentives









Different categories of Sub-borrowers are eligible for finance under GEFF Facilities

Businesses

Any businesses that undertakes eligible subprojects

Service Providers

Housing management companies

Vendors

Suppliers of eligible technologies

Producers

Manufacturers of eligible technologies

ESCOs

ESCO/enduser/final beneficiary shall be an eligible subborrower

ESCO shall pass the incentive benefits to the enduser/final beneficiary

Eligible Sub-borrowers shall:

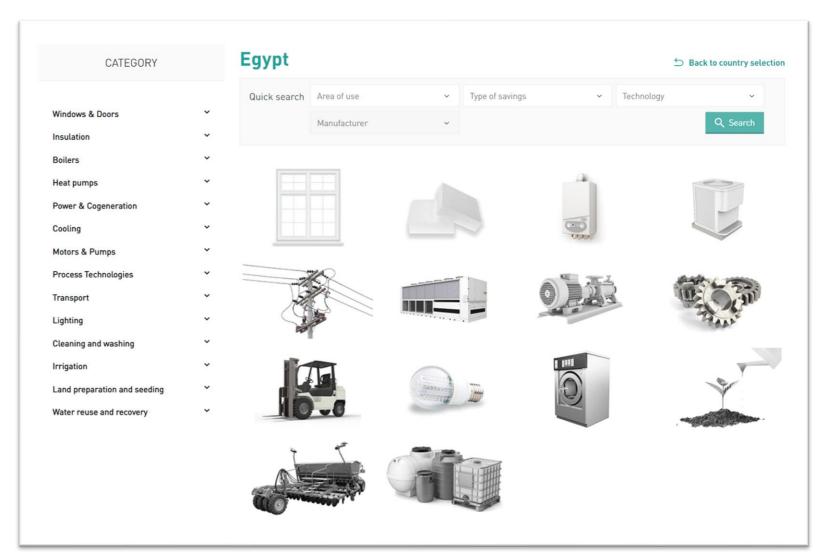
- Not be included in EBRD's Environmental and Social Exclusion List:
- Not be a traders/producers of military equipment, tobacco, hard liquor, speculative investments, casinos, combustion of fossil fuels, working capital, purchase of land;
- Not be a majority-owned by the government



GTS Technology Selector



https://techselector.com/egypt-en/



Technical Eligibility



Energy Efficiency

 Investment shall achieve a minimum energy saving or GHG reduction of 20% compared to a baseline.

Existing Buildings

- Minimum certification level (i.e., LEED Silver, BREEAM Good, EDGE Standard, Passive House Standard, DGNB Bronze); or;
- The energy demand of the building is reduced by at least 30% compared to baseline performance.
- Land acquisition costs are excluded

New Buildings

- Minimum certification level (i.e., LEED Silver, BREEAM Good, EDGE Standard, Passive House Standard, DGNB Bronze)
- Land acquisition costs are excluded

New Buildings Components

- Total cost of eligible components does not exceed 30% of the final value of a new building (excluding land acquisition cost), and
- The component have a MEP as "best-class" compared to current market practices (GTS)

Renewable Energy

- PV (EPC, IPP)
- Hydropower, wind turbines, bioenergy, geothermal energy projects are subject to review by EBRD's E&S Department

Water Use

- Eligible investments that enable reduction in water consumption shall achieve at least 20% water savings compared to the "Reference Water Baseline", or
- Sustainable water generation installations with capacity equal to or greater than 100m³/yr
- Demand of desalination projects shall not exceed 5 kWh/m³ of fresh water generated

Sustainable Land Management

- Investment shall enable reduction in soil erosion
- Investments shall achieve a reduction in soil erosion of at least 20% compared to the "Reference Soil Loss Baseline".



Thank you

For more details, please visit our website

http://ebrdgeff.com/egypt_facilities

Or get in touch with us through

egypt@ebrdgeff.com

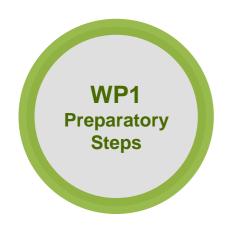






Conclusion (1)

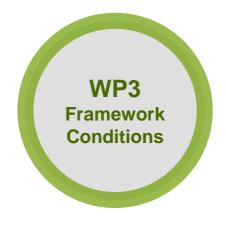
Several outputs will enable the acceleration of climate-friendly buildings



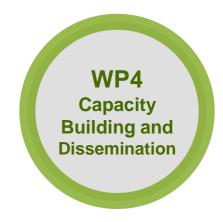
- Developed public and free available software tool
- Developed building typology
- Calculated baseline



 Supported 13 pilot projects with technical and economic assessments of suitable energy concepts



- Analysed national EEBC
- Conceived voluntary EE classification scheme
- Supported national strategies (NEEAPs)



- Developed website
- Performed workshops, trainings, webinars
- Formulated newsletters, brochures, etc
- Developed a database for best practice buildings





Conclusion (2)

Offered a customisable, transparent tool adapted to the MENA region



Performance of energy efficiency measures & RE



Calculation of monetary savings



Free web application



Proven methodology





Conclusion (3)

The benefits of a voluntary classification scheme



Transparency of energy consumptions





Reduction of energy bills



Job creation



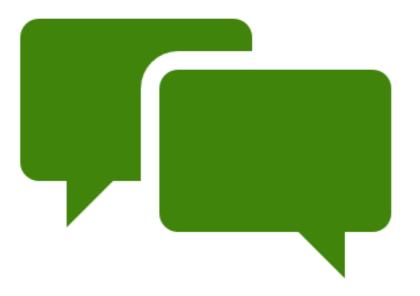
Facilitating finance





Final discussions

Feedback and ideas







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Contact

Mohamed Salheen

salheen@idg.com.eg

Rana Abouzeid

rana.abouzeid@idg.com.eg

Mai Adel

mai_adel@idg.com.eg

Norhan El Dallal

norhan.eldallal@idg.com.eg

Doha Moharram

doha.moharram@idg.com.eg





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Riadh Bhar

riadh.bhar@guidehouse.com

Eslam Mahdy

eslam.mahdy@guidehouse.com

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