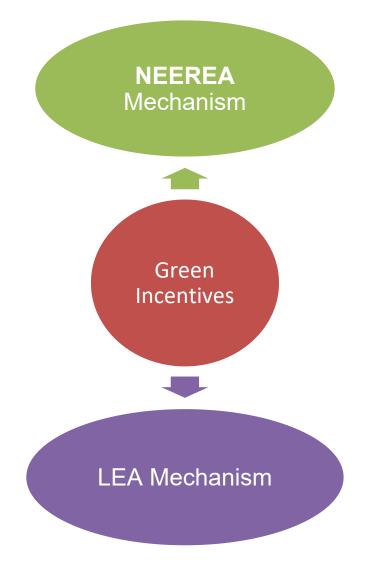


BDL Green Incentives

EcoMondo Rimini, November 8, 2016

Green Incentives





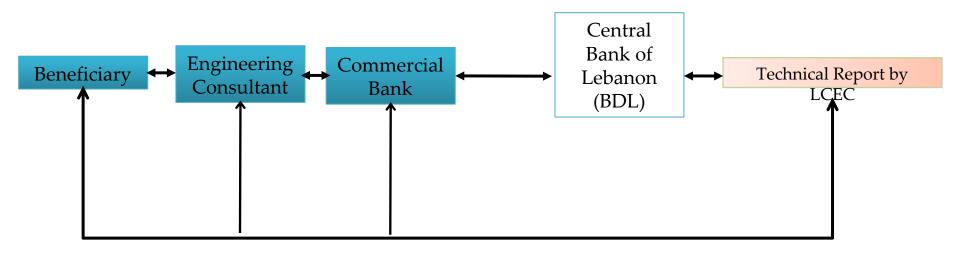


National Energy Efficiency and Renewable Energy Action

- Energy Efficiency measures.
- Renewable Energy base, i.e. Solar and Wind energy.







Unofficial Technical Assistance by LCEC

4

BDL Energy Incentives



Cost of EE & RE Investment

≤1%



BDL Energy Incentives

New Projects

- Up to 14 years maturity
- Up to 4 years grace period

Re-Modeling Existing Projects

- Up to 10 years maturity
- Up to 2 years grace period





Certified Green Buildings

• The amount of the Energy loan extended would be based on the following:

Nature of Project	Rating	Energy Loan Amount
New Project	Not rated	EE & RE Cost
	Certified	15% of Total Project Value
	Silver	25% of Total Project Value
	Gold 35% of Total Project Value	
	Platinum	45% of Total Project Value
Existing Project	Rated or Not Rated	EE & RE Cost

• The certification system developed by LEED is adopted, or equivalent classifications from other internationally recognized systems.



Consumer Solar Water Heaters

0% Interest Rate

Up to 5 Years Maturity

\$200 Grant from the MOEW for the First 7,500 Applicants

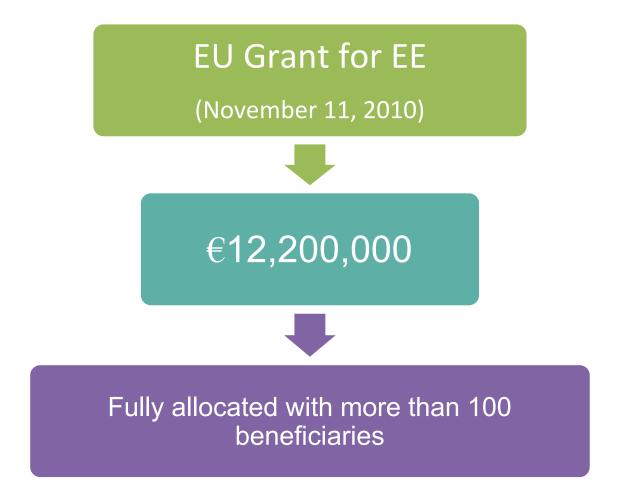
Number of granted SWH loans \approx 20,000

Number of SWH loans that benefited from MOEW = 6,000



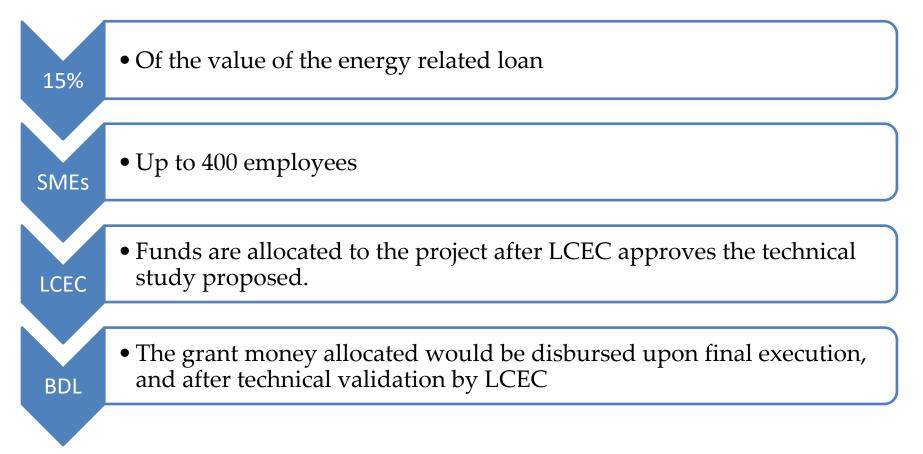






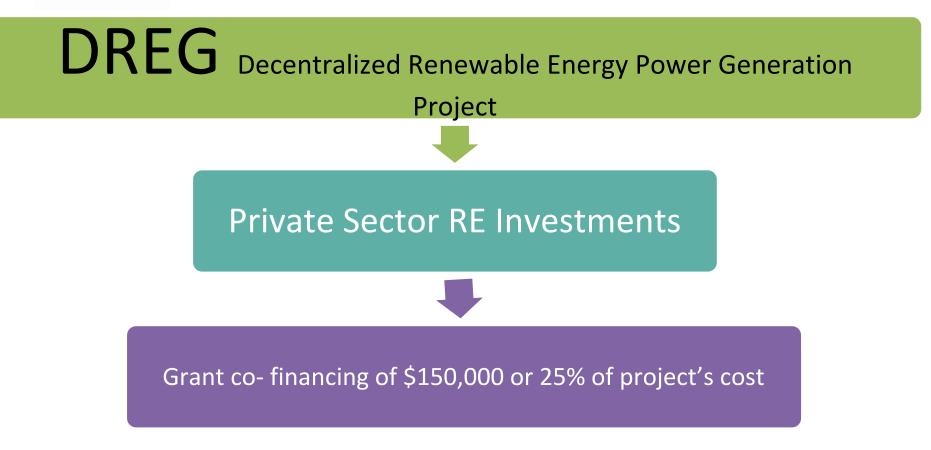
EU Grant

•BDL would pay a grant to subsidize loans extended to finance energy projects, with a maximum grant of \$750,000 per project:







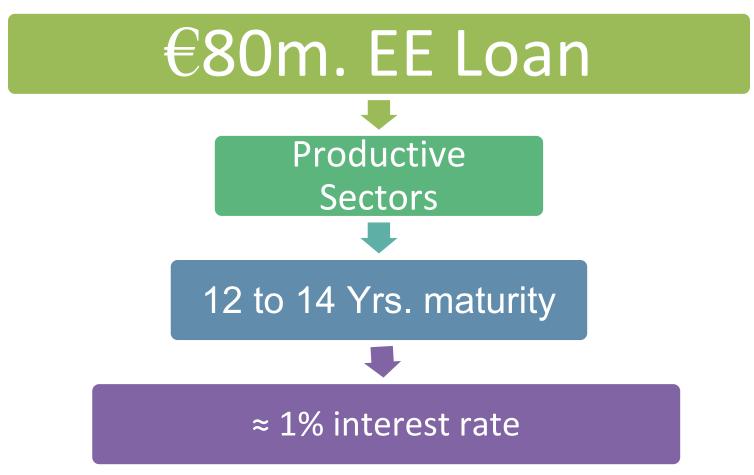






European Investment Bank







- More than **480** loans approved with a total of **322 million USD**
- Around **42** projects in the pipeline with a total of **12 million USD**
- 338 PV projects of a total installed capacity of 13.5 MWP





Green Buildings

- On average, green buildings loans have the Silver certification (loan amount is around 25% of total project cost)
- Around 205 Million USD of loans are invested in certified green buildings projects (LEED, BREEAM)

• Direct projects size exceeds 820 Million USD.



14

Solar Photovoltaic Systems Loans

Number of PV	Granted Loan	Installed	Annual	Annual Cost	CO2 Savings
projects		Capacity	Energy	Savings	in tons
			Savings		
152	7.7 Million USD	2.4 MWp	3.55 MWh	1.2 Million USD	2210

•Analysis of 152 approved photovoltaic projects

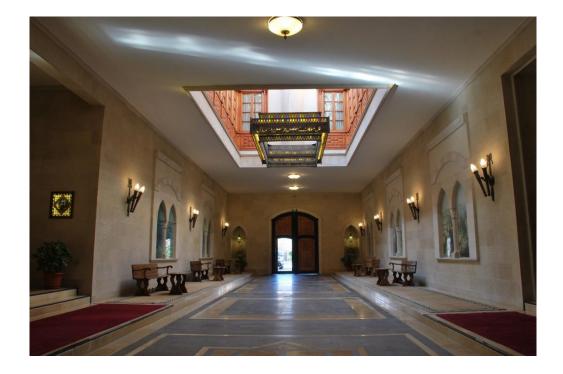
•The total installed capacity till date is 2.4 MWp

•An average of 16 kW per project (projects above 100 kW started to be explored especially pumping)

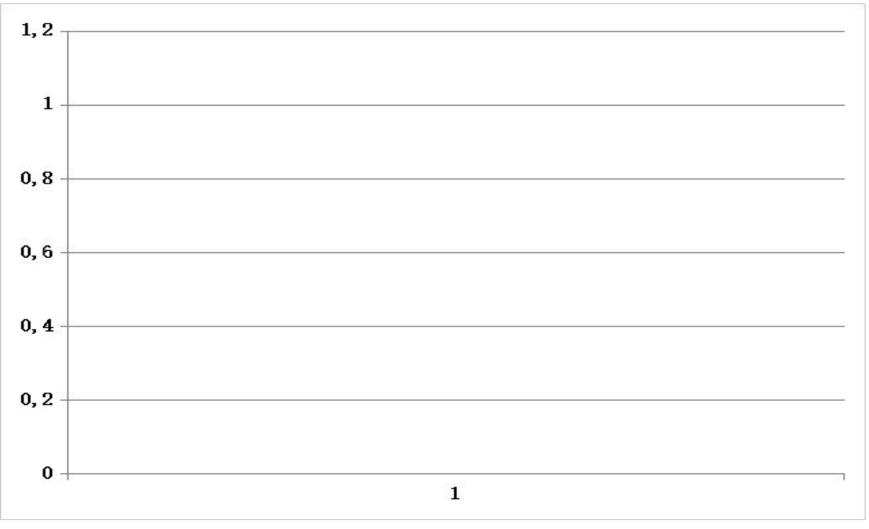


LED Lighting Loans

Number of LED projects **Twenty Three** Granted LoanAnnual EnergyAnnual CostCO2 Savings inSavingsSavingston3 Million USD5.32 MWh940,000 USD3010

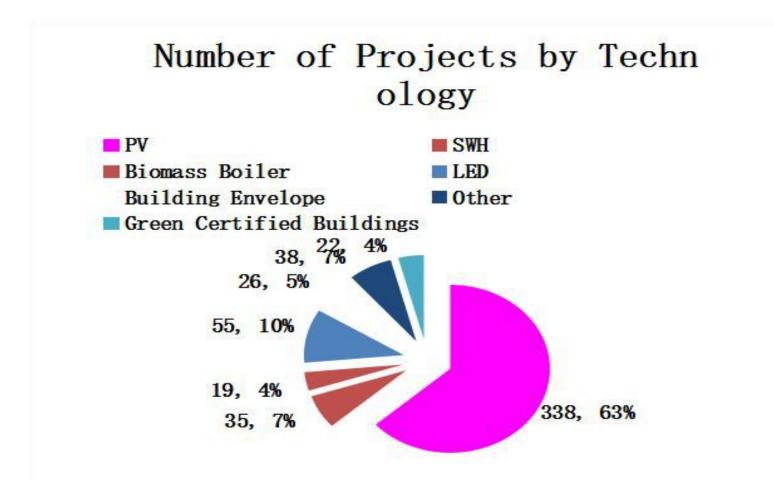








Distribution of Projects Under NEEREA





Loans Amount Distribution of Projects Per Sector



- NEEREA helped create more than **10,000** direct and indirect jobs in the sustainable energy sector in Lebanon
- The number of companies working in the field of solar water heaters rose from **25** in 2010 to more than **170** companies today.
- The number of companies working in the green energy and energy audits business rose from **4** in 2010 to more than **30** companies now.
- The number of companies working in solar photovoltaic sector increased from **5** in 2010 to more than **70** companies today.

The Lebanese Environmental Action (LEA)

For Water, Air, and the Environment

A National Financing Mechanism by Banque du Liban and assistance of LCEC

What are the Environmental projects covered by LEA?

Recycling





Landscape



Green Roofs



•Ecotourism







What are the Environmental projects covered by LEA?

 Stones cladding



Roof Tiling



 Wastewater Treatment



Rainwater Collection



LEA: Environmental Requirements by Measure

Stone Cladding

- Recycled stones
- (visual impact, conservation of the traditional architecture)

Roof tiling

- Durable Materials
- Environmental Specifications (LCA, EDS)
- (visual impact, conservation of the traditional architecture, insulation and water proofing)

Landscaping

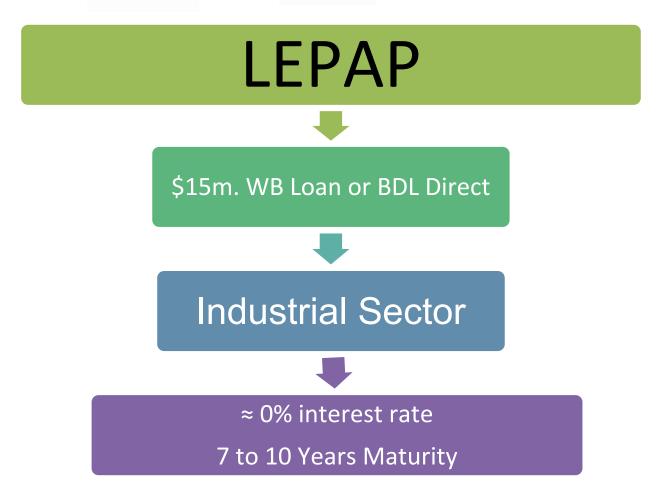
- Plantings adapted to the local conditions (natives)
- Organic Fertilizer
- Drip Irrigation
- (air and water quality improvement, biodiversity enhancement...)

BDL Green Incentives: LEA











Financing Scheme	Cost on Beneficiary	Multiplier
EIB/AFD Energy	0% - 0.75%	150%
Energy Loans	3.75%- (50%*1Yr. Tbs)	150%
Solar Panels Loans	0.75%	150%
Solar Energy – Rural Areas	0.75%	150%
Pollution Abatement - Industry	2 Yr. Tbs – 1% LIBOR 3mths. + 4.5%	60%
World Bank – Pollution Abatement	WB rate + BDL Comm + 3.5% Bank Spread - (100%*1Yr. Tbs)	100%
Non Subsidized – Environmental Loans	3.75%- (50%*1Yr. Tbs)	100%
Environmental Subsidized Loans	2 Yr. Tbs – 0.75%	60%



Thank You

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