

Findeter

Financial Institution for Development

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FINDETER'S PARTICIPATION IN RENEWABLE ENERGY AND SUSTAINABLE INFRASTRUCTURE



SUBSIDIZED CREDIT SUSTAINABLE LINES INFRASTRUCTURE

Amount: COP equivalent of USD 330 million Interest Rate: DTF – 3.0% Term: up to 12 years

* As of 29/05/2016 Quarterly DTF is equivalent to 7.01%

SPECIAL CREDIT ENERGY EFFICIENCY LINE AND CLIMATE CHANGE

Amount: COP equivalent of USD 50 million

SPECIAL CREDIT Line

RENEWABLE ENERGY AND STREET LIGHTING

Amount: COP equivalent of USD 33 million Interest Rate: DTF + 1.9% Term: up to 8 years

FEATURED PROJECTS



PUBLIC LIGHTING MODERNIZATION

Armenia, San Vicente de Chucurí, Pasto EFFICIENT REGIONAL TRANSMISSION SYSTEMS

Tolima



SMALL Hydropower

PLANTS

Antioquia and Tolima



SOLAR PHOTOVOLTAIC ENERGY

Amazonas

MARKET STUDY FOR STREET LIGHTING



Sample

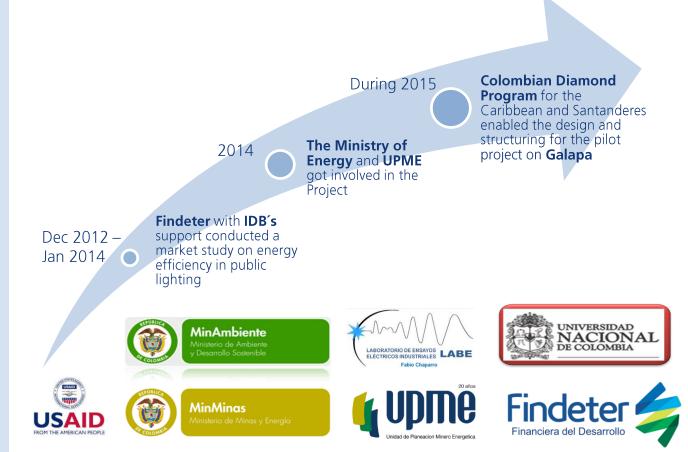
Barranquilla, Montería, Bucaramanga, Pasto, Buenaventura, Pereira, Cali, Quibdó, Cartagena, Riohacha, Cúcuta, San Gil, Florencia, Santa Marta, Galapa, Sincelejo, Manizales, Valledupar

Target market

- Target market is 300,000 lamps
- Cost per lamp is estimated at USD 400; for a total cost of USD 120 million

Findings

- Energy savings will result in 86,495 MWh/year
- Economic savings are estimated at USD 13.3 million / year
- Estimated payback is 5 to 8 years
- Estimated emission savings of 24,219 CO2/ year



Prefeasibility studies and designs Monitoring systems Georeferentiation systems

Financing Terms

Eligible activities

•Renewable energy systems for solar, wind, biomass, small hydropower plants, etc

•Street lighting •Interior illumination

Amount	nount USD 33 million	
Term	Up to 8 years	
Grace period	Up to 2 years	
Rediscount rate	DTF + 1.90% or IPC + 4.00%	
Final interest rate	To be agreed with the FI	
Beneficiaries	Same as of FINDETER	
Effectiveness	31/12/2015	

SPECIAL CREDIT LINE FOR RENEWABLE ENERGY AND STREET LIGHTING



MALECÓN BARRANQUILLA – LUIS CHARRIS

Findeter

* As of 29/05/2016 quarterly DTF is equivalent to 7.01% and annual IPC as of 30/04/2016 to 7.93%

STUDY CASE: BUCARAMANGA

Year	# of lamps	Technology	Energy consumption (KW/h)	Annual energy costs (USD)	Investments (USD)
2001	28,000	Mercury	32,065,894	1,999,259	0
2006	34,843	Sodium	29,442,240	2,037,624	1,429,913
2013	44,784	Sodium and LED	26,600,189	2,745,525	3,741,591
2014	Total investment as of April 30, 20144,833,459				4,833,459

- Number of installed lamps grew 60% from 2001 to 2013
- Energy consumption decreased 17% despite the increase in lamps
- Energy savings allowed investments in service improvements



OTHER STREET LIGHTING SUCCESSFUL CASES





Alcaldía Ocaña



Parque las palmas – Bucaramanga



Alcaldía Santa marta



Iglesia la porciúncula -Bogotá



Calle real - armenia





Support the design of a strategy to mitigate and reduce the main barriers and risks associated with the financing of Energy Efficiency projects in LED public lighting, and create market conditions that stimulate the demand for this type investment projects, by municipalities and the private sector, and trust among the actors involved.

COMPONENTS	USD
Technical assistance and legal mechanisms	\$730,000
Financial Mechanism	\$850,000
Validation, Monitoring and Evaluation Mechanisms	\$230,000
Capacity Development and Communication	\$94,500
Management	\$95,225
TOTAL	\$1.999.725



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