



CLIMATE
INVESTMENT
FUNDS

100 Billion by 2020

Mafalda Duarte

February 27, 2014



ENERGY ACCESS

Saving lives -

Replacing inefficient cookstoves and open fires with modern energy services would avert millions of premature deaths, many of them children who die each year as a result of exposure to indoor smoke.

Less than \$50 billion for universal access -

Universal access to modern energy services can be achieved for less than \$50 billion per year.²

Almost 90%

of the people without access to electricity live in sub-Saharan Africa or South Asia, and

84% are in rural areas.³

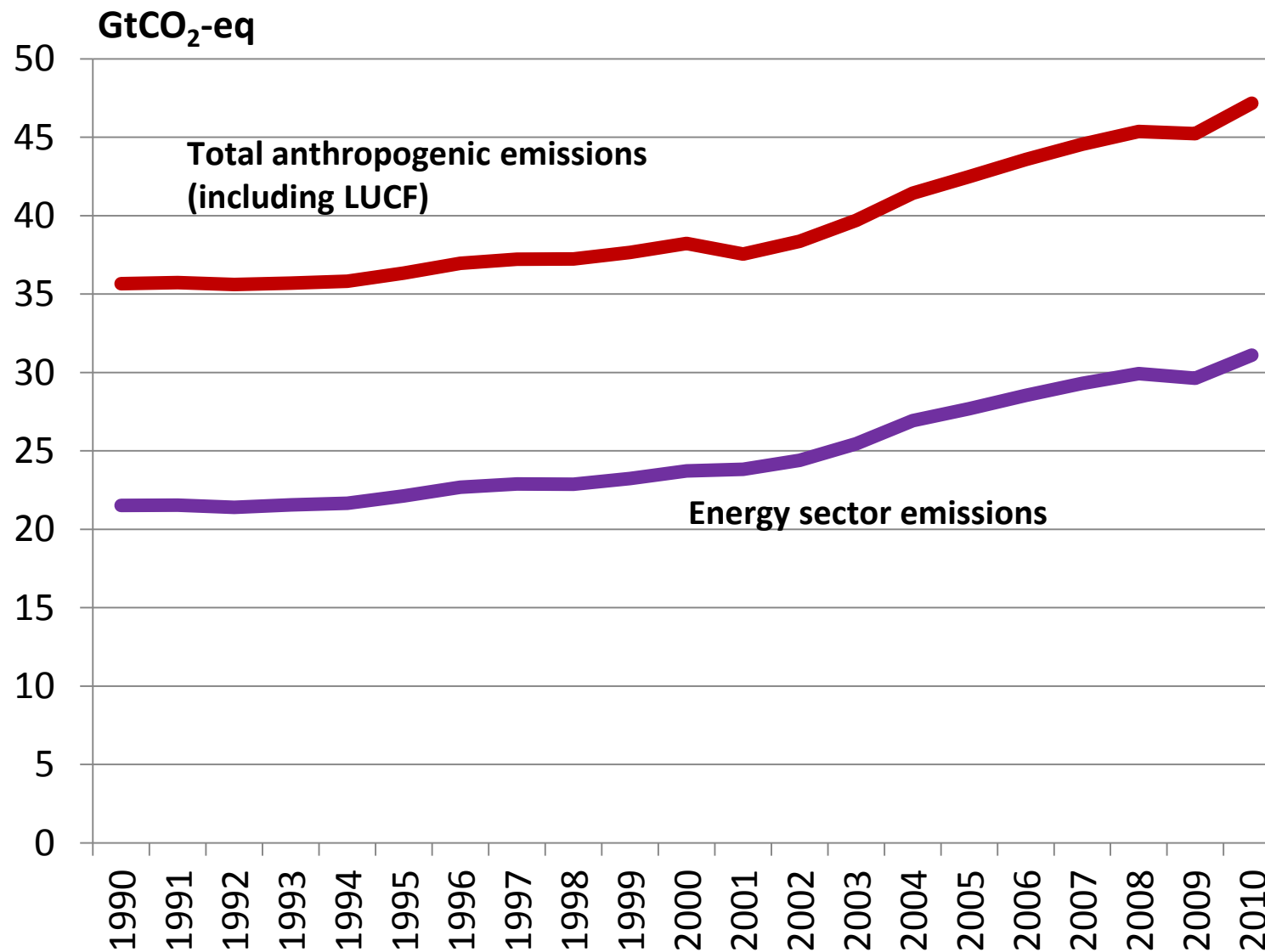
OVER 1 BILLION PEOPLE WORLDWIDE LACK ACCESS TO ELECTRICITY



OVER **95%** OF THESE PEOPLE LIVE IN SUB-SAHARAN AFRICA OR DEVELOPING ASIA.



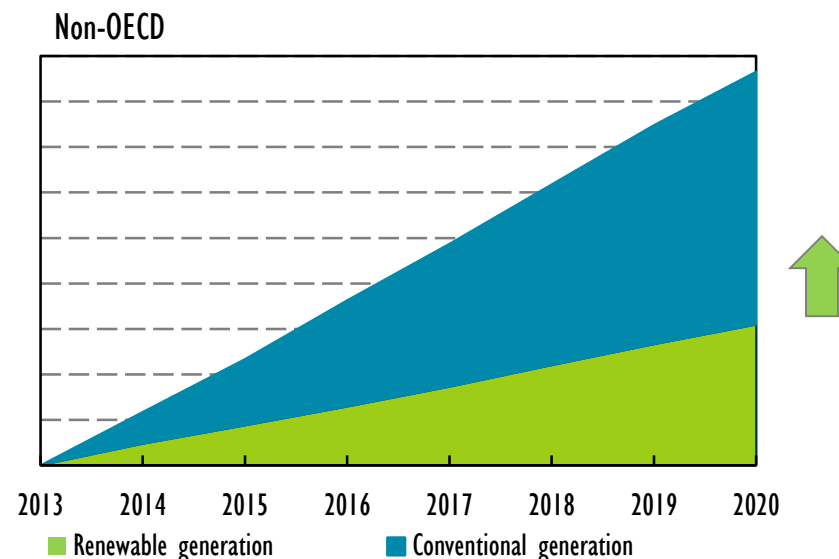
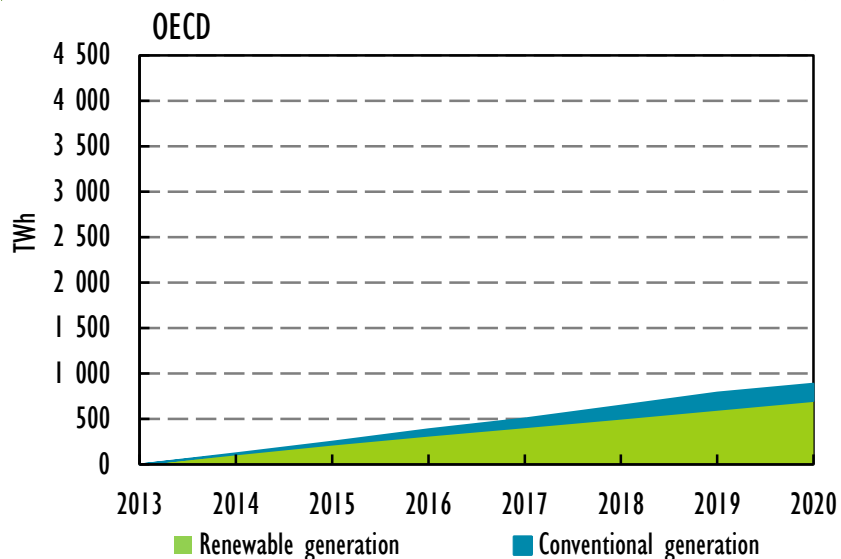
The Energy sector represents over 60% of human generated emissions





Growth in Renewables

Projected cumulative change in gross power generation by source and region, 2013-20



Renewables account for 80% of new generation in OECD

- stable markets with slow demand and growing policy risks means relatively small growth

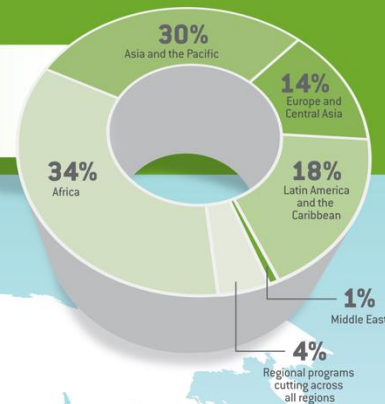
■ **Renewables are largest new generation source in non-OECD, but meet only 35% of growth**

- **Large growth potential for renewables in dynamic markets with fast-growing demand beyond IEA projections**

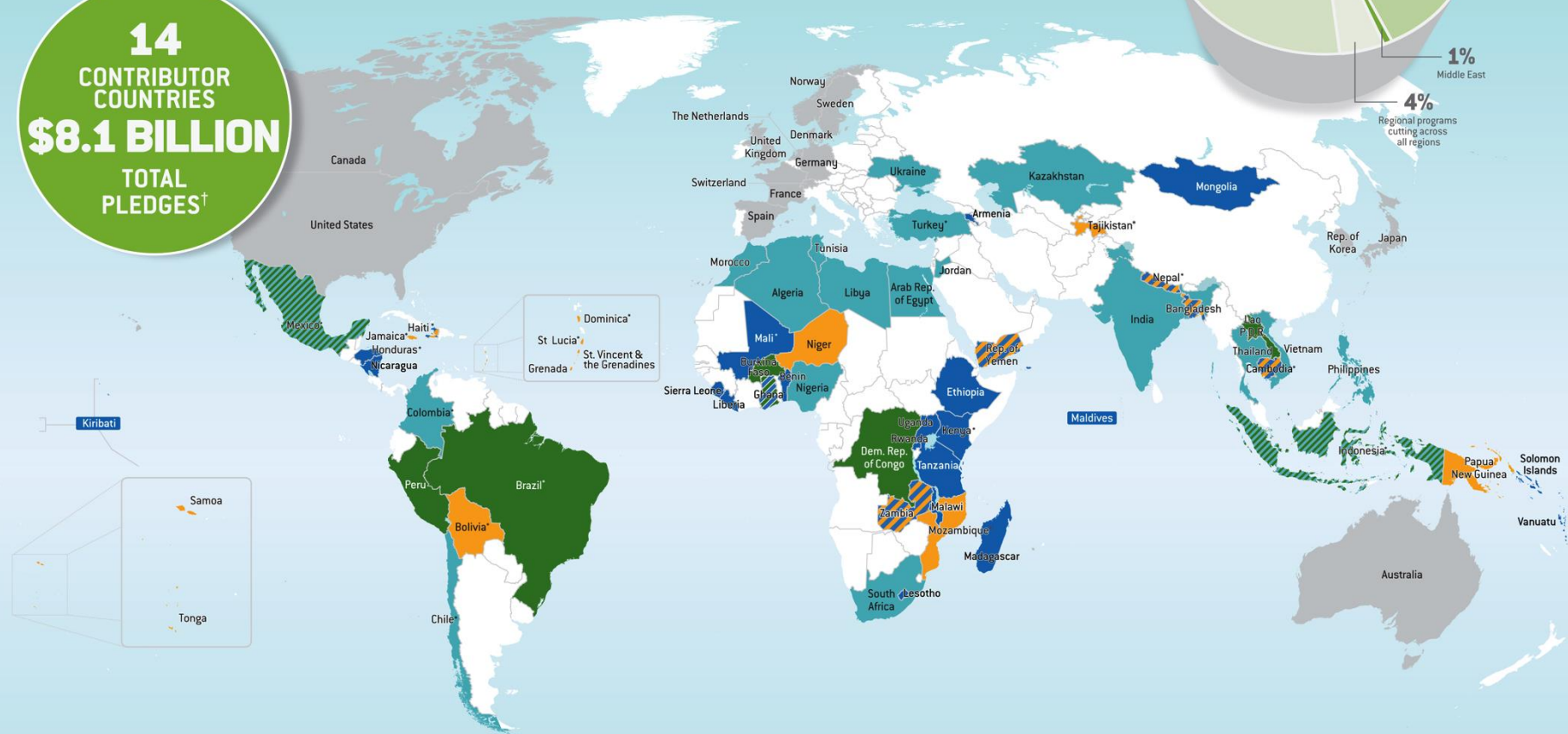


EMPOWERING TRANSFORMATION

CIF ALLOCATIONS BY REGION



14
CONTRIBUTOR COUNTRIES
\$8.1 BILLION
TOTAL PLEDGES†



MDB PARTNERS




This map was produced by the World Bank. The boundaries, colors, denominations, and any other information shown on this map do not imply, on the part of the World Bank Group, any judgment on the legal status of any territory, or any endorsement or acceptance of such boundaries.
† Fund pledges are based on an exchange rates provided by the CIF Trustee in December 2014.



CIF financing spread





CTF

CLEAN TECHNOLOGY FUND
Scaling up the demonstration, deployment, and transfer of low carbon technologies in renewable energy, energy efficiency, and sustainable transport

\$5.3 BILLION

CTF COUNTRIES


Chile	Kazakhstan	South Africa
Colombia	Mexico	Thailand
Egypt	Morocco	Turkey
India	Nigeria	Ukraine
Indonesia	Philippines	Vietnam

Middle East and North Africa Region
(Algeria, Egypt, Jordan, Libya, Morocco, Tunisia)

DEDICATED PRIVATE SECTOR FUNDING

\$508.5 MILLION

Chile, Dominica, Colombia, Ghana, Haiti, Honduras, Indonesia, Mali, Mexico, Turkey



PPCR

PILOT PROGRAM FOR CLIMATE RESILIENCE
Mainstreaming resilience in development planning and action investments

\$1.2 BILLION

PPCR COUNTRIES

Bangladesh	Mozambique	Tajikistan
Bolivia	Nepal	Yemen
Cambodia	Niger	Zambia

Caribbean Region
(Dominica, Grenada, Haiti, Jamaica, St. Lucia, St. Vincent and the Grenadines)

Pacific Region
(Papua New Guinea, Samoa, Tonga)

DEDICATED PRIVATE SECTOR FUNDING

\$75.4 MILLION

Bolivia, Cambodia, Mozambique, Tajikistan, Haiti, Jamaica, St. Lucia



SREP

SCALING UP RENEWABLE ENERGY IN LOW INCOME COUNTRIES PROGRAM
Demonstrating the economic, social, and environmental viability of renewable energy in low income countries

\$796 MILLION

SREP COUNTRIES


Armenia	Kiribati	Nicaragua
Bangladesh	Liberia	Rwanda
Benin	Lesotho	Sierra Leone
Cambodia	Madagascar	Tanzania
Ethiopia	Malawi	Uganda
Ghana	Maldives	Yemen
Haiti	Mali	Zambia
Honduras	Mongolia	
Kenya	Nepal	

Pacific Region (Solomon Islands, Vanuatu)

DEDICATED PRIVATE SECTOR FUNDING

\$92.4 MILLION

Honduras, Kenya, Mali, Nepal



FIP

FOREST INVESTMENT PROGRAM
Reducing emissions from deforestation and forest degradation, sustainably managing forests, and enhancing forest carbon stocks

\$785 MILLION

FIP COUNTRIES

Brazil	Indonesia
Burkina Faso	Lao People's Democratic Republic
Democratic Republic of Congo	Mexico
Ghana	Peru


DEDICATED PRIVATE SECTOR FUNDING

\$31.3 MILLION

Brazil, Ghana, Mexico

* Fund pledges are based on exchange rates provided by the CIF Trustee in December 2014.

CTF financing scope



CTF

CLEAN TECHNOLOGY FUND

Scaling up the demonstration, deployment, and transfer of low carbon technologies in renewable energy, energy efficiency, and sustainable transport

\$5.3 BILLION

DEDICATED PRIVATE SECTOR FUNDING

\$508.5 MILLION

Chile, Dominica, Colombia, Ghana, Haiti, Honduras, Indonesia, Mali, Mexico, Turkey

CTF COUNTRIES

Chile	Kazakhstan	South Africa
Colombia	Mexico	Thailand
Egypt	Morocco	Turkey
India	Nigeria	Ukraine
Indonesia	Philippines	Vietnam

Middle East and North Africa Region (Algeria, Egypt, Jordan, Libya, Morocco, Tunisia)



TOTAL

\$5.3 BILLION

1.7 BILLION TONS OF CO₂ e **350 MILLION CARS OFF THE ROAD**

GHG EMISSIONS REDUCTIONS EXPECTED FROM ENDORSED CTF INVESTMENTS

TO DATE

59 PROJECTS UNDER IMPLEMENTATION **= CTF \$3.3 billion** **+ \$31 billion EXPECTED CO-FINANCING**

TO NOTE

\$1.2 BILLION CTF ALLOCATIONS

CONTRIBUTING TO **1.5 GW concentrated solar power** EXPECTED **= 1/3** CURRENT GLOBAL INSTALLED CAPACITY 4 GW





SREP financing scope

SREP
SCALING UP RENEWABLE ENERGY IN LOW INCOME COUNTRIES PROGRAM
Demonstrating the economic, social, and environmental viability of renewable energy in low income countries

\$796 MILLION

DEDICATED PRIVATE SECTOR FUNDING
\$92.4 MILLION
Honduras, Kenya, Mali, Nepal

SREP COUNTRIES

Armenia	Kiribati	Nicaragua
Bangladesh	Liberia	Rwanda
Benin	Lesotho	Sierra Leone
Cambodia	Madagascar	Tanzania
Ethiopia	Malawi	Uganda
Ghana	Maldives	Yemen
Haiti	Mali	Zambia
Honduras	Mongolia	
Kenya	Nepal	

Pacific Region (Solomon Islands, Vanuatu)



TOTAL

\$796 MILLION

840 MW NEW CAPACITY & **14 MILLION PEOPLE**
EXPECTED FROM ENDORSED SREP INVESTMENTS IMPROVED ENERGY ACCESS

TO DATE

12 PROJECTS UNDER IMPLEMENTATION = **SREP \$136 million** + **\$1 billion** EXPECTED CO-FINANCING

TO NOTE

\$746 MILLION SREP & CTF ALLOCATIONS

CONTRIBUTING TO POTENTIAL **2.9 GW** = **1/4** OF CURRENT GLOBAL INSTALLED CAPACITY 13 GW

CLIMATE INVESTMENT FUNDS



PPCR financing scope

PILOT PROGRAM FOR CLIMATE RESILIENCE

PPCR | **\$1.2 BILLION**

Mainstreaming resilience in development planning and action investments

Bangladesh	Niger	Caribbean Region
Bolivia	Tajikistan	(Dominica, Grenada, Haiti, Jamaica, St. Lucia, St. Vincent and the Grenadines)
Cambodia	Yemen	Pacific Region
Mozambique	Zambia	(Papua New Guinea, Samoa, Tonga)
Nepal		



DEDICATED PRIVATE SECTOR FUNDING

\$75.4 MILLION

Bolivia	Tajikistan	Jamaica
Cambodia	Haiti	St. Lucia
Mozambique		

- Currently the largest adaptation fund in the world, the PPCR focuses on a smaller number of countries and transactions to maximize impact and possibility for replication.
- PPCR \$791 million (73% of the PPCR pipeline) is approved for 46 projects with expected co-financing of \$1.6 billion.





FIP financing scope



FOREST INVESTMENT PROGRAM

FIP

\$602 MILLION

Reducing emissions from deforestation and forest degradation, sustainably managing forests, and enhancing forest carbon stocks

Brazil	Ghana	Mexico
Burkina Faso	Indonesia	Peru
Democratic Republic of Congo	Lao People's Democratic Republic	



DEDICATED PRIVATE SECTOR FUNDING

\$31.3 MILLION

Brazil Ghana Mexico

- FIP \$267 million (53% of the FIP pipeline) is approved for 16 projects with expected co-financing of \$740 million.
- The FIP is investing in the on-the-ground action needed to advance REDD+ in FIP pilot countries.

\$50 million Dedicated Grant Mechanism for Indigenous Peoples and Local Communities (DGM)

Unique to the FIP

Designed and led by indigenous peoples and local communities

Largest global REDD+ initiative solely for these groups



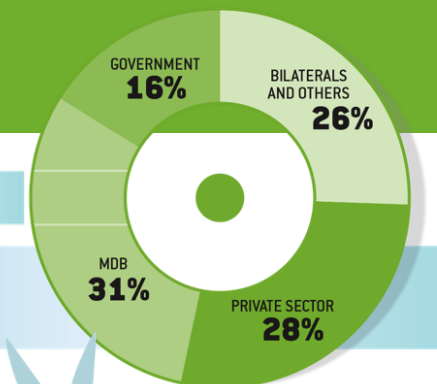
CIF financing scale

INVESTMENTS AT SCALE

- Mobilizing resources and triggering investments at scale by bearing risks and laying the groundwork for climate-friendly markets
- Testing and refining financing models to stimulate private sector engagement

CIF \$4.4 BILLION UNDER IMPLEMENTATION

\$34 BILLION CO-FINANCING



RENEWABLE ENERGY

Focusing on renewable energy solutions to drive down costs, create markets, support first-movers, and expand energy access



57% OF CIF \$4.4 BILLION UNDER IMPLEMENTATION

\$2.5 BILLION FOR RENEWABLE ENERGY

14 GW

EXPECTED RESULT

2 GW

ACHIEVED SO FAR*



CLIMATE-SMART PLANNING

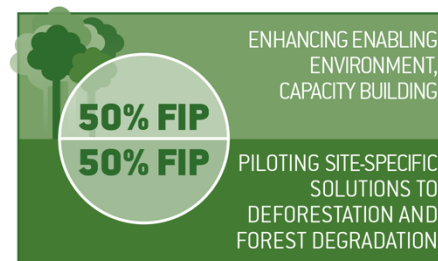
Integrating climate change into national development planning to manage systematically current and future climate impacts

PPCR \$200 MILLION FOR UPGRADING HYDRO-MET AND CLIMATE SERVICES

FOR MORE INFORMED DECISION MAKING

SUSTAINABLE FORESTS

Supporting the sustainable, productive use of forest landscapes to reduce GHG emissions, build resilience, and improve livelihoods



LEARNING

Learning by doing to serve as a living lab for climate finance

- Pioneering work in monitoring and reporting
- Building networks and peer learning among CIF countries
- Analytical studies and thematic dialogues



DEDICATED RESOURCES FOR PROMOTING EVIDENCE-BASED LEARNING ACROSS THE CIF

VISIT US WWW.CLIMATEINVESTMENTFUNDS.ORG





Transformational Impact: Concentrated Solar Power

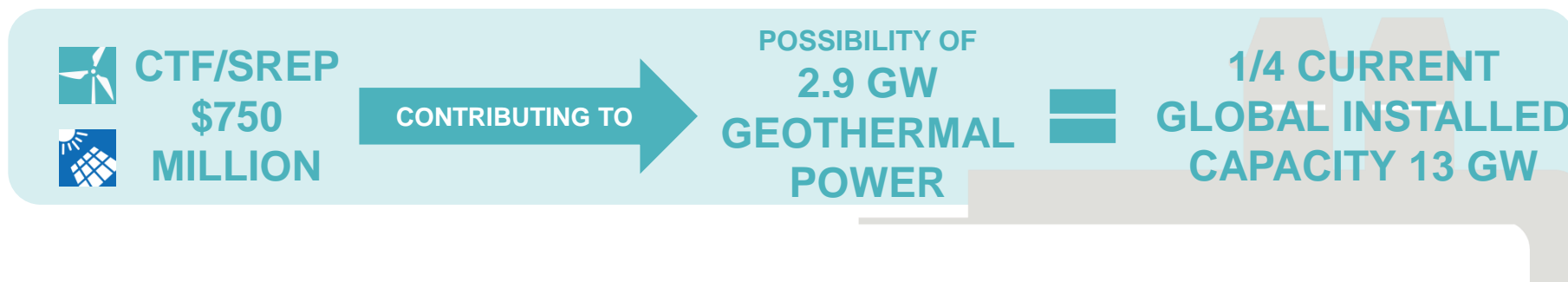


Key findings of CIF/CPI project on “*Effective Use of Public Finance to scale up CSP*”

1. **CSP increasingly attractive and competitive** due to storage benefits
2. Public support must **be sustained over time**, capture **cost reductions**, and **remunerate flexible power supply** from CSP
3. IFIs should target CSP technologies with greatest potential for **cost reductions or energy system benefits**, **harmonize lending requirements**, and **reduce foreign exchange hedging costs** of IFI loans for developers



Transformational Impact: Geothermal Power



Early findings of CIF/CPI project to distill lessons on “*Effective Use of Public Finance in Deploying Geothermal*”

1. **Geothermal cost competitive with fossil fuels**
2. **Resource identification and exploratory drilling entail high risk and cost** (up to 15% of total project cost) → private sector reluctant to fund
3. **Public support crucial:** up to 90% of geothermal projects utilize public finance
4. **Public policy and finance must address resource availability** (vs operational phase of projects)



2020 Goals

- CIFs to serve as a complementary fund to fill the funding gap to reach the \$100 billion commitment by 2020

