The Energy Efficiency goals of SE4ALL and SDG#7:

challenges for Latin America & the Caribbean

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SUSTAINABLE ENERGY FOR ALL AMERICAS

Presentation overview

1 - The SE4ALL's and the SDG#7's goals on Energy Efficiency

2 – Global Tracking Framework's outlook on Energy Efficiency

3 – ECLAC's ongoing actions for the promotion of EE in LAC

The 2030 Agenda for Sustainable Development

- **At the UN Sustainable Development Summit (Sept. 2015), world leaders adopted the 2030 Agenda for Sustainable Development, which includes 17 Sustainable Development Goals (SDGs) to be achieve by 2030 in order to:**
  - ***end poverty,***
  - ***fight inequality and injustice***
  - ***tackle climate change***

- **The SDGs combine social and economic development with ecological sustainability. They also address issues such as peace and security, the rule of law and good governance, all of which are essential to sustainable development**

- **The SDGs are universally applicable. This means that all the countries in the world, according to their capacity, should contribute to achieving the goals.**

S.D. Goal #7: Ensure access to affordable, reliable, sustainable and modern energy for all

- By 2030, ensure universal access to affordable, reliable and modern energy services
- By 2030, increase substantially the share of renewable energy in the global energy mix
- By 2030, double the global rate of improvement in energy efficiency
- By 2030, enhance international cooperation to facilitate access to clean energy research and technology, …… and promote investment in energy infrastructure & clean energy technology
- By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States…..

The *SE4ALL* Initiative

The Sustainable Energy for All (SE4ALL) initiative is a multi-stakeholder partnership between governments, the private sector, and civil society.

Launched by the UN Secretary-General in 2011, it has three interlinked objectives to be achieved by 2030:

- **Ensure universal access to modern energy services.**
- **Double the global rate of improvement in energy efficiency**
- **Double the share of renewable energy in the global energy mix.**

The *SE4ALL* Latin America & Caribbean Hub

- **The SE4All/Americas Hub is hosted by the Inter-American Development Bank (IADB) and its mission is to facilitate the implementation of the SE4All initiative in Latin America and the Caribbean (LAC) region**

- **In Feb. 2015, the Hub launched a partnership between IADB , the UNDP and ECLAC, to implement strategic objectives on behalf of SE4All and help coordinate activities and information in the LAC Region.**

- **Main targets:**
  - ***creation of knowledge products***
  - ***help with planning for universal access to energy***
  - ***coordination with national and international partners***
  - ***monitoring the status & advances towards SE4All goals***

Need for a goal-tracking system !

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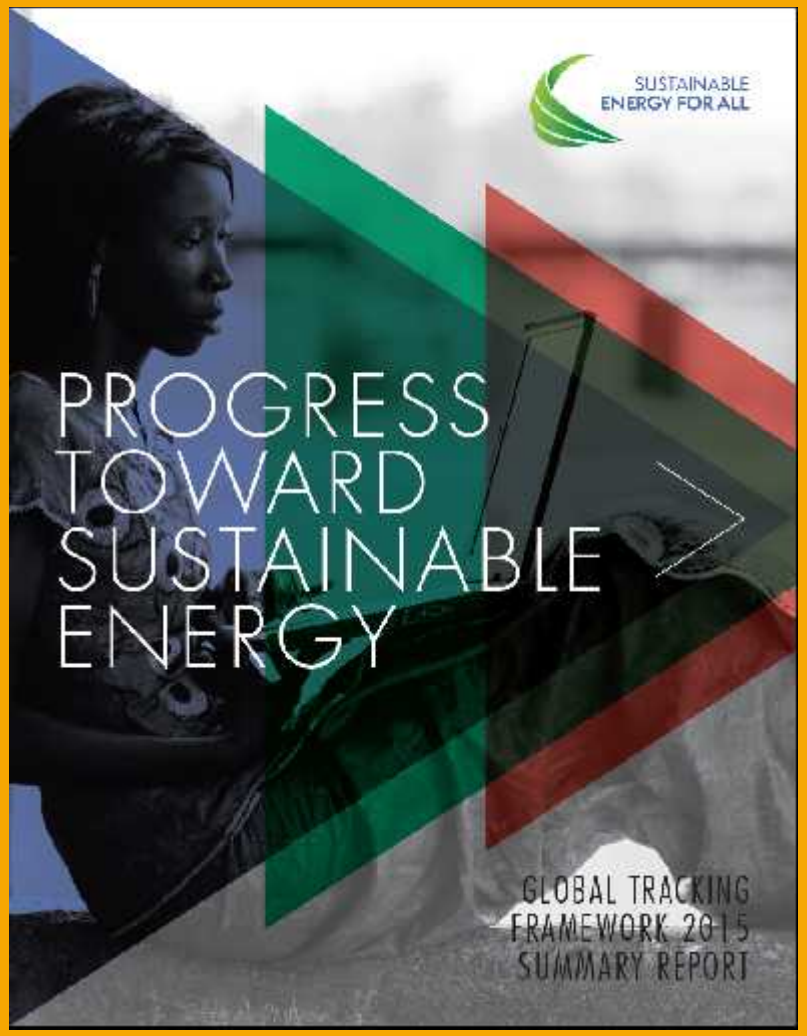
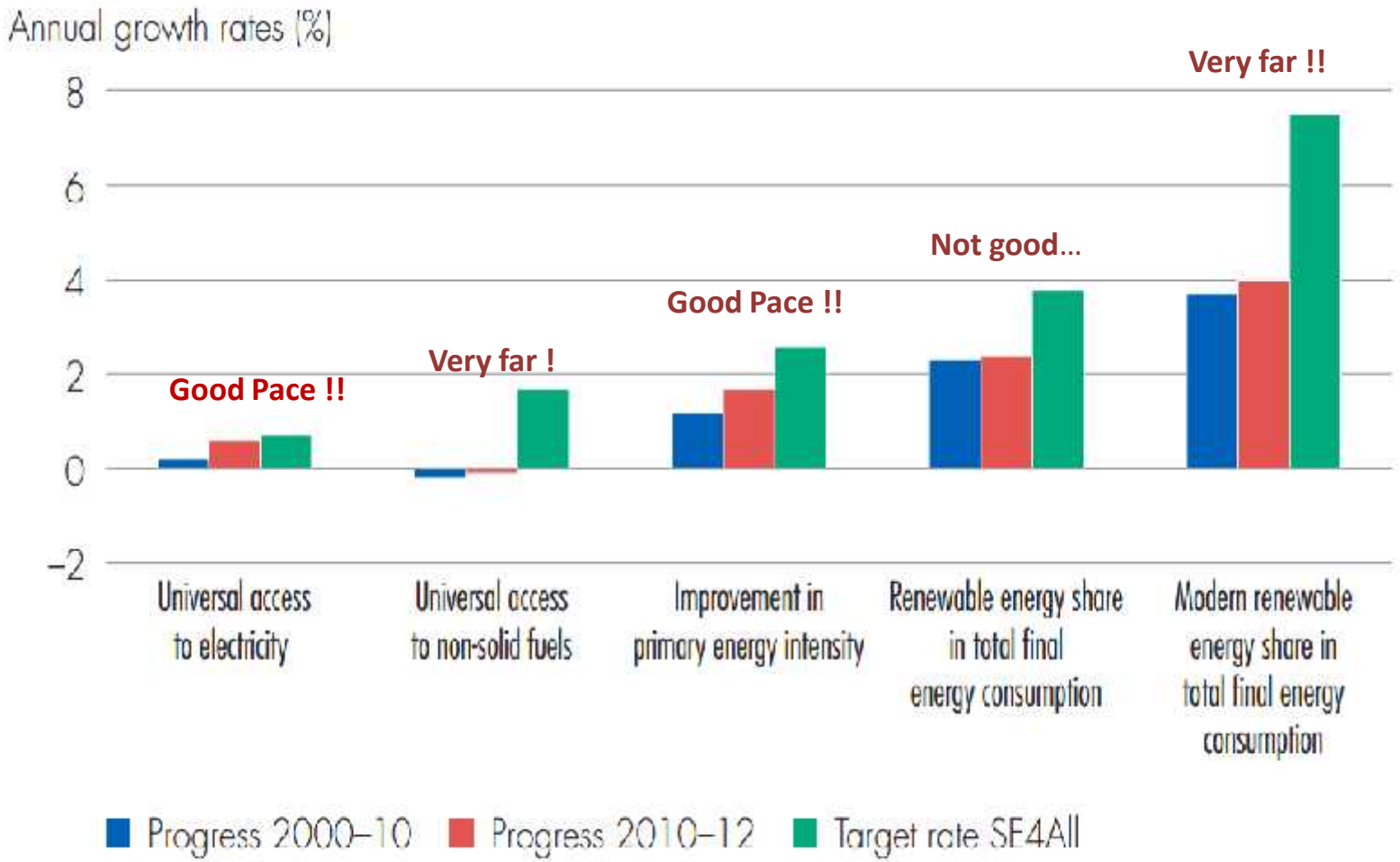
Sustainable Energy for All – SE4ALL

Global Tracking Framework 2015



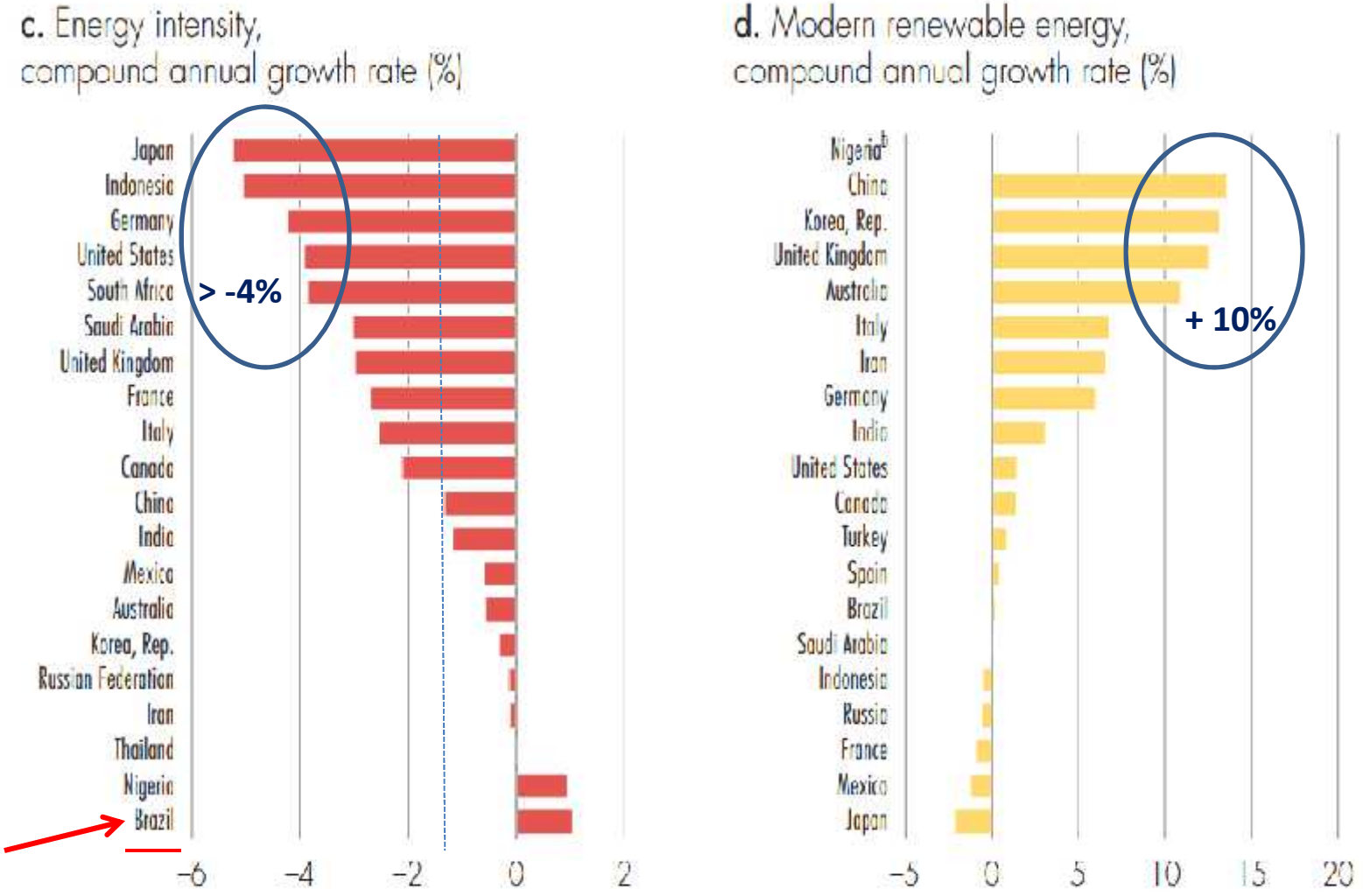
source: Global Tracking Framework 2015, WB

RATE OF PROGRESS TO ATTAIN *SE4ALL* TARGETS



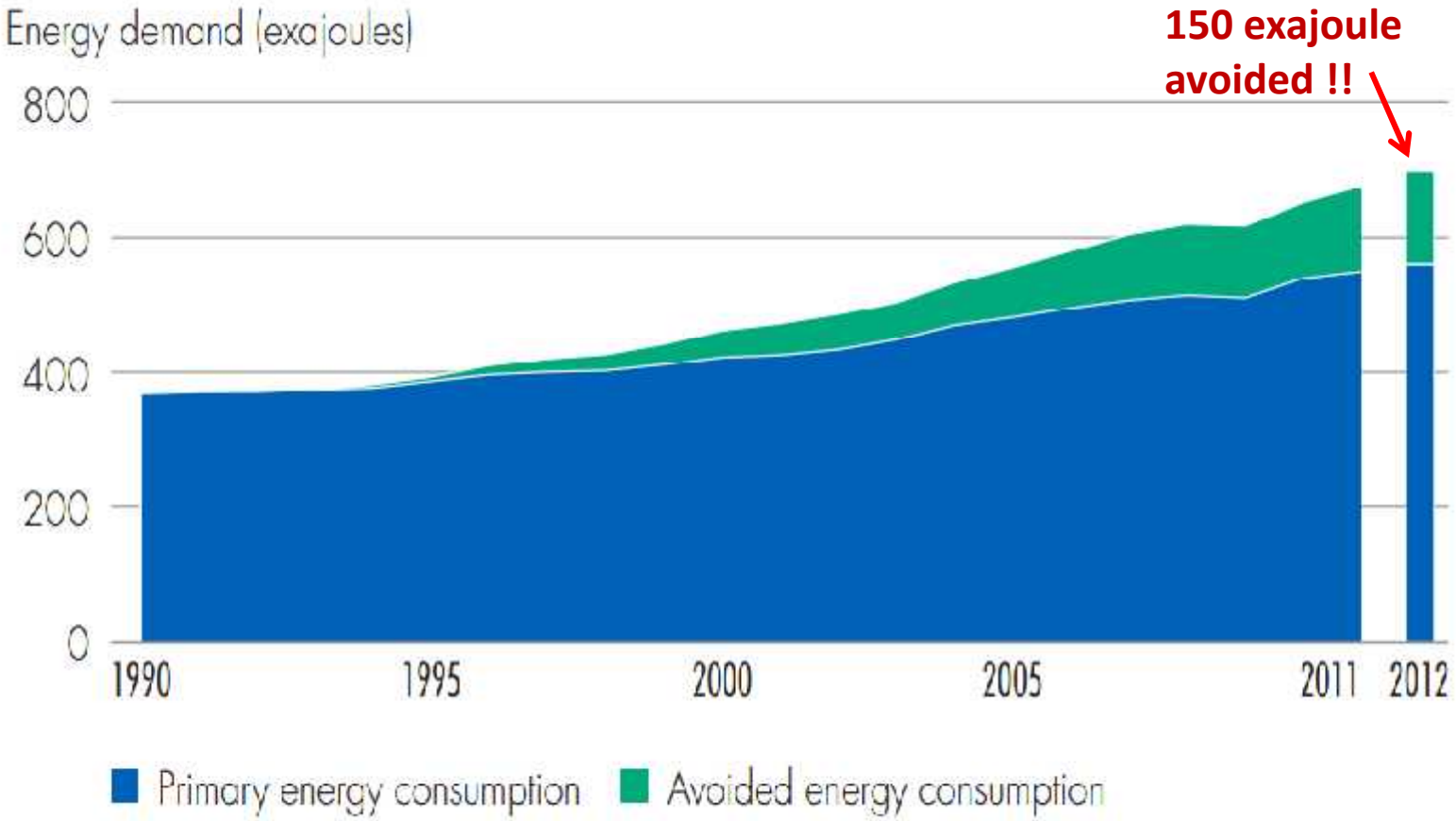
source: Global Tracking Framework 2015, WB

2010→2012: PROGRESS TOWARDS *SE4ALL* TARGETS



source: Global Tracking Framework 2015, WB

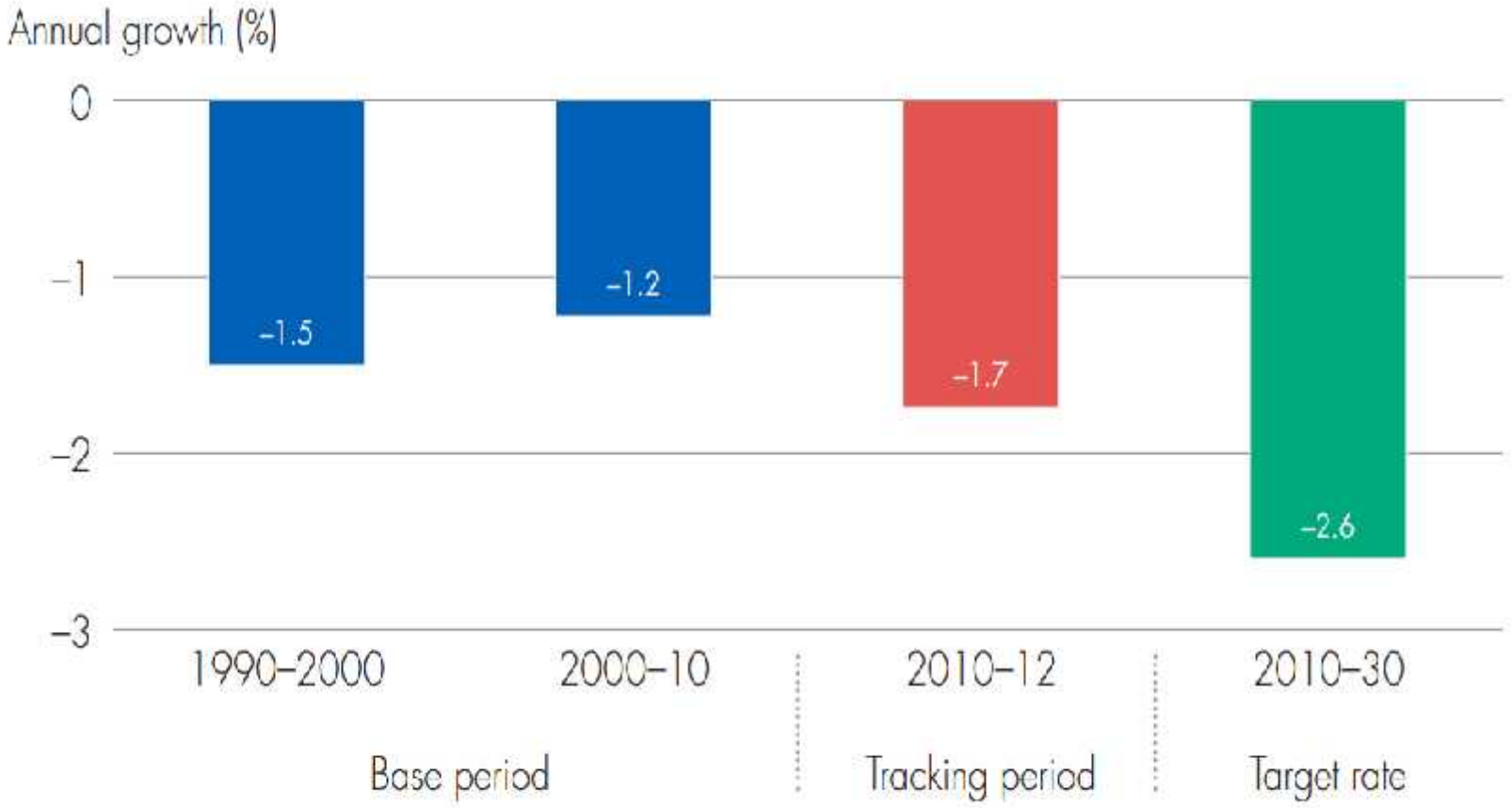
Actual and avoided global primary energy consumption
(due to declining Energy Intensity)



source: Global Tracking Framework 2015, WB

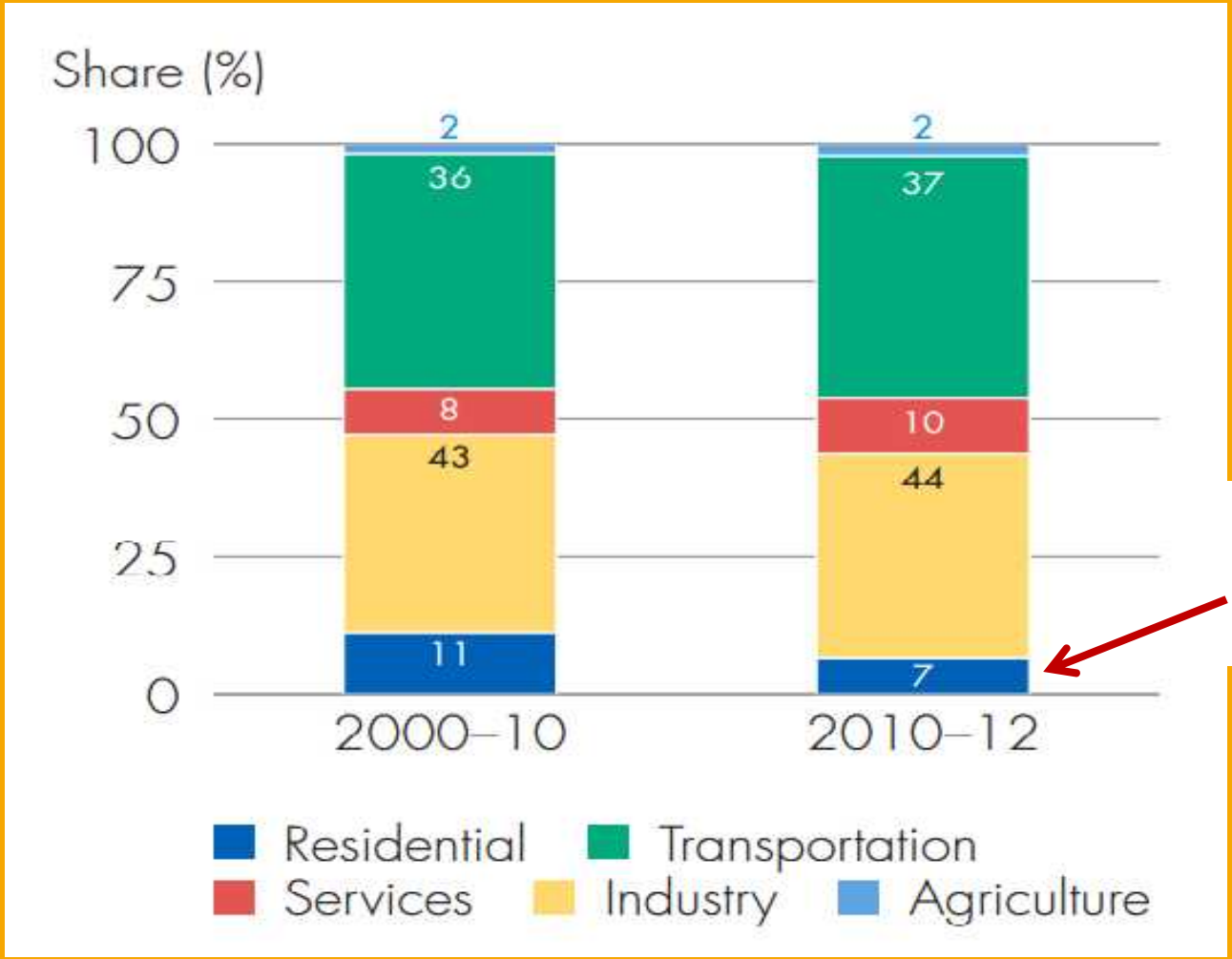
Rate of change in global energy intensity

(Compound Annual Growth Rate - CAGR)



source: Global Tracking Framework 2015, WB

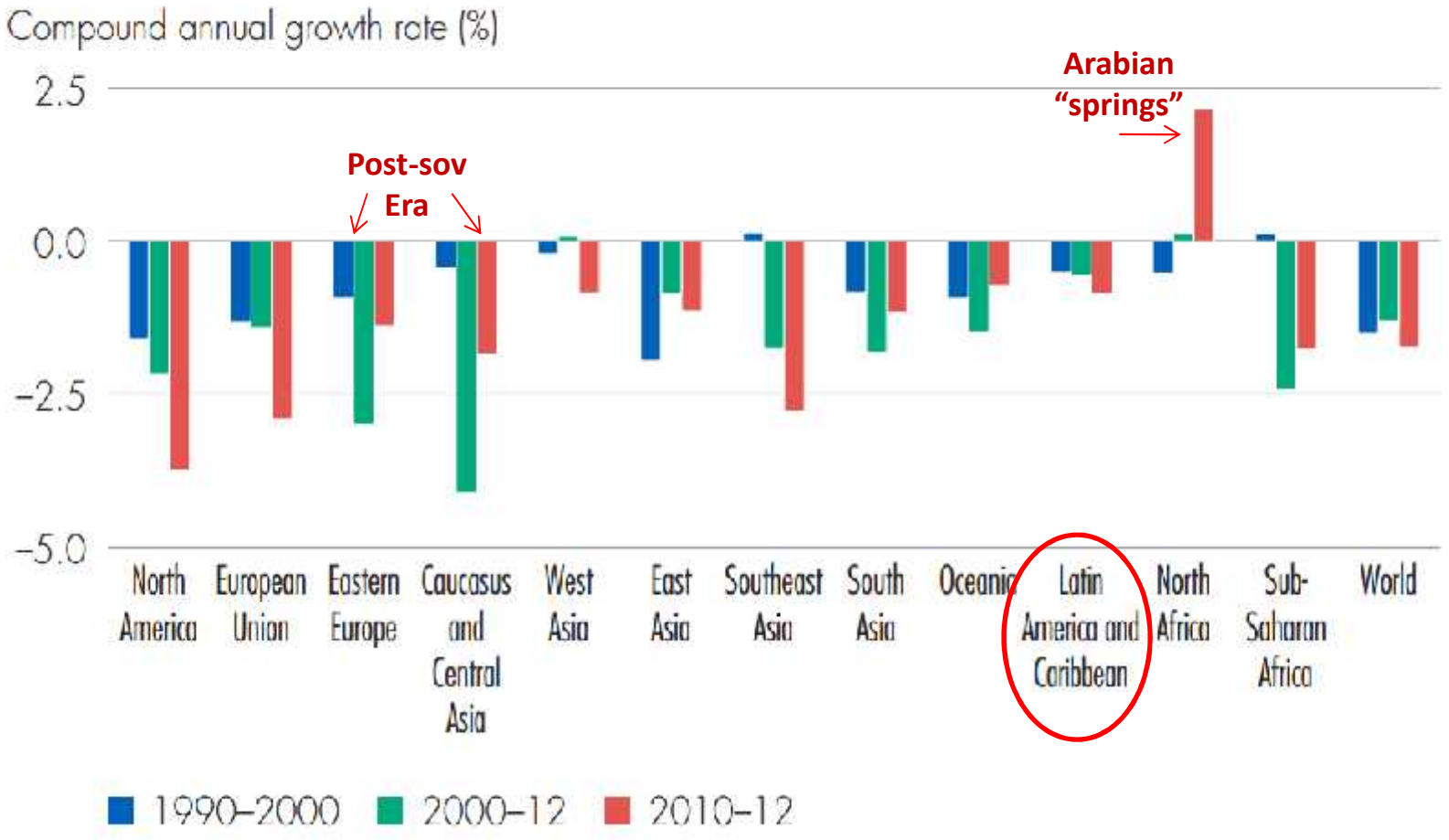
Share of avoided global final energy consumption



Residential: **going backwards!!**

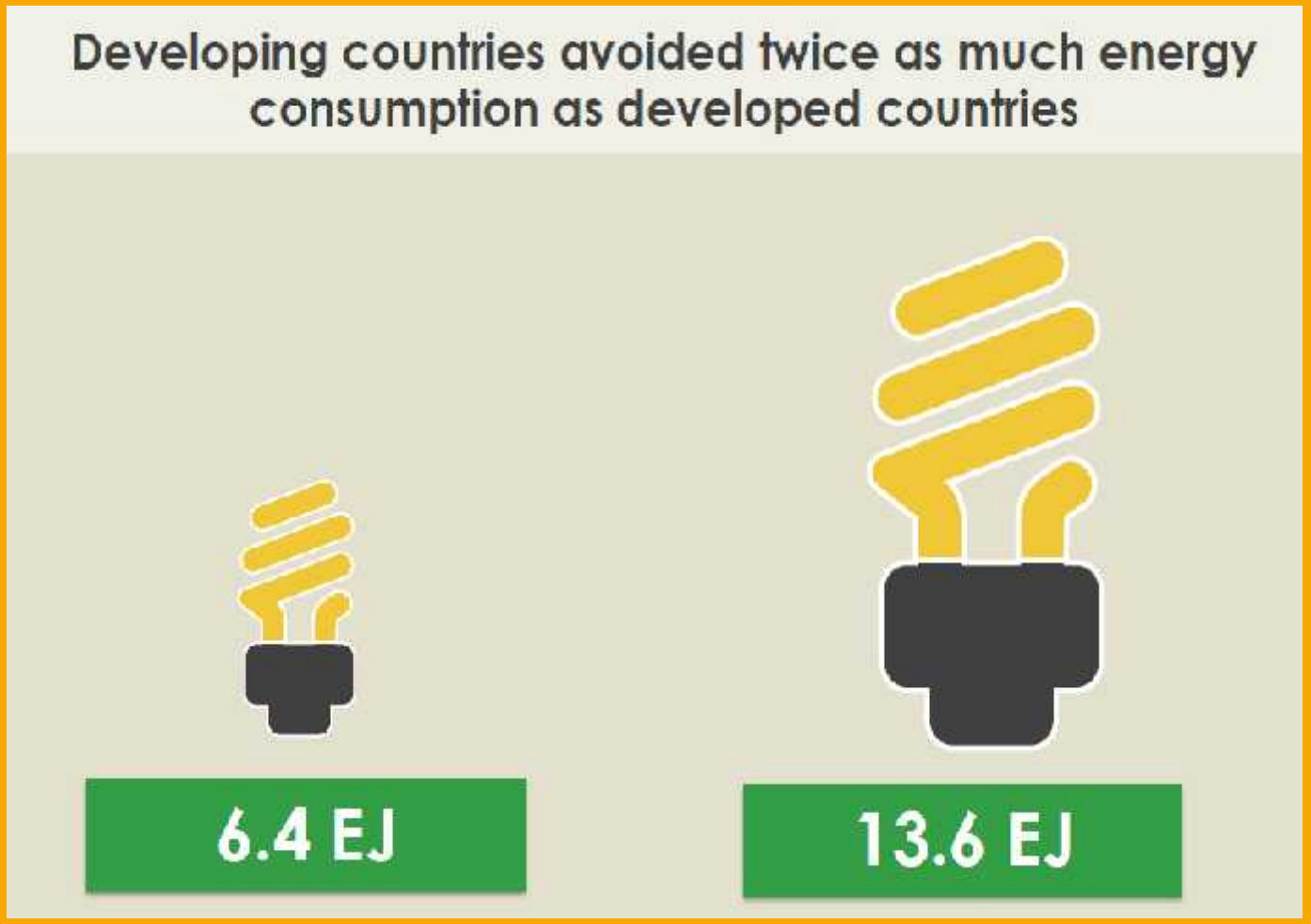
source: Global Tracking Framework 2015, WB

Rate of improvement in primary Energy Intensity



source: Global Tracking Framework 2015, WB

2010 → 2012



source: Global Tracking Framework 2015, WB

THE INVESTMENT GAP

Positive progress towards SE4ALL goals, but progress rates lower that the expected

Percent	Universal access to modern energy services		Doubling global rate of improvement of energy efficiency	Doubling share of renewable energy in global energy mix
Proxy indicator	Percentage of population with electricity access	Percentage of population with primary reliance on non-solid fuels	Rate of improvement in energy intensity	Renewable energy share in TFEC
1990	76	47	–1.3	16.6
2010	83	59		17.8
2012	**84.6**	**58.4**	**–1 .7**	**18.1**
2030 (projected)	89	72	–2.2	24.0
2030 (target)	100	100	–2.6	36.0
	Close !	**Very far..**	**Can be done**	**Very far..**

source: Global Tracking Framework 2015, WB

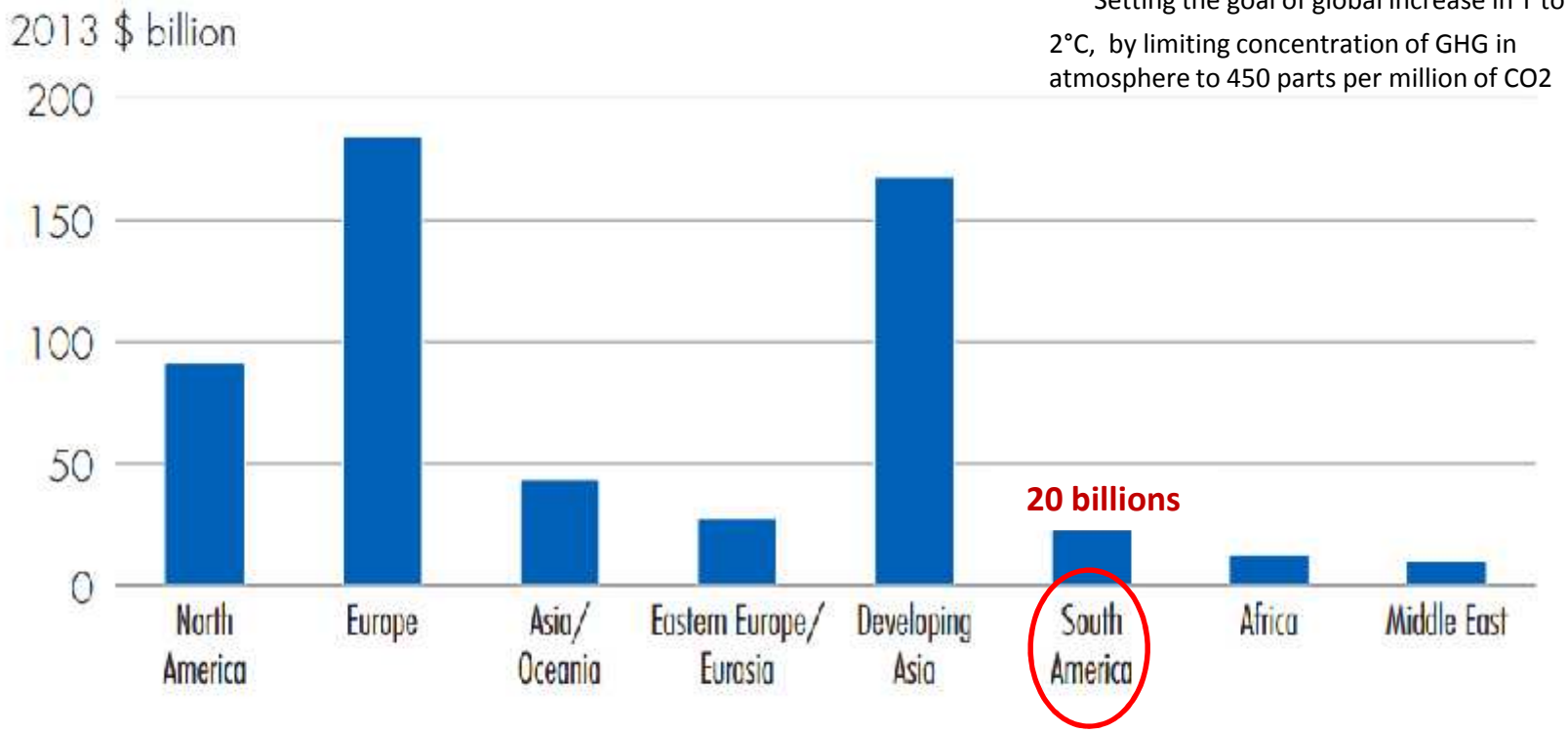
Annual Global Investment

actual & required (us$ billions)

Annual investment	Universal access to modern energy services	Universal access to modern energy services	Doubling the global rate of improvement in energy efficiency	Doubling the share of renewable energy in the global mix[a]	
Source	Electrification	Cooking	Energy efficiency	Renewable energy	Total
Actual for 2012[b]	9	0.1	130	258	397
Required to 2030[c]	45	4.4	560	442–650	1,051–1259
Gap	36	4.3	430	184–392	654–862
	x 4	x 40	x 3	x 2	

source: Global Tracking Framework 2015, WB

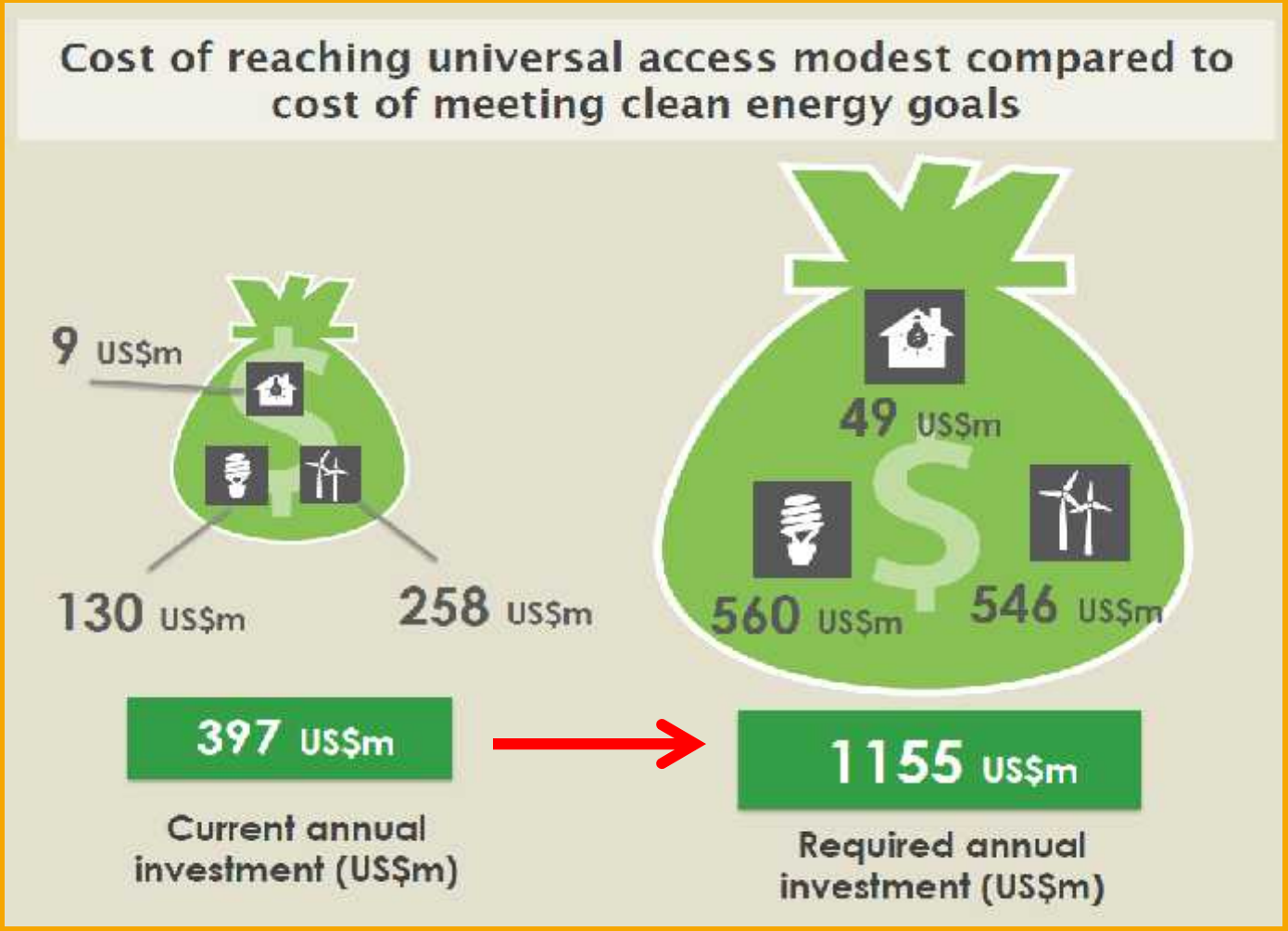
2014-2030: Annual average energy efficiency investment in the IEA's 450* Scenario



* Setting the goal of global increase in T to 2°C, by limiting concentration of GHG in atmosphere to 450 parts per million of CO2

source: IEA & Global Tracking Framework 2015, WB

Financing for sustainable energy needs to triple, to over US$ 1 Trillion annual !!!!



source: Global Tracking Framework 2015, WB

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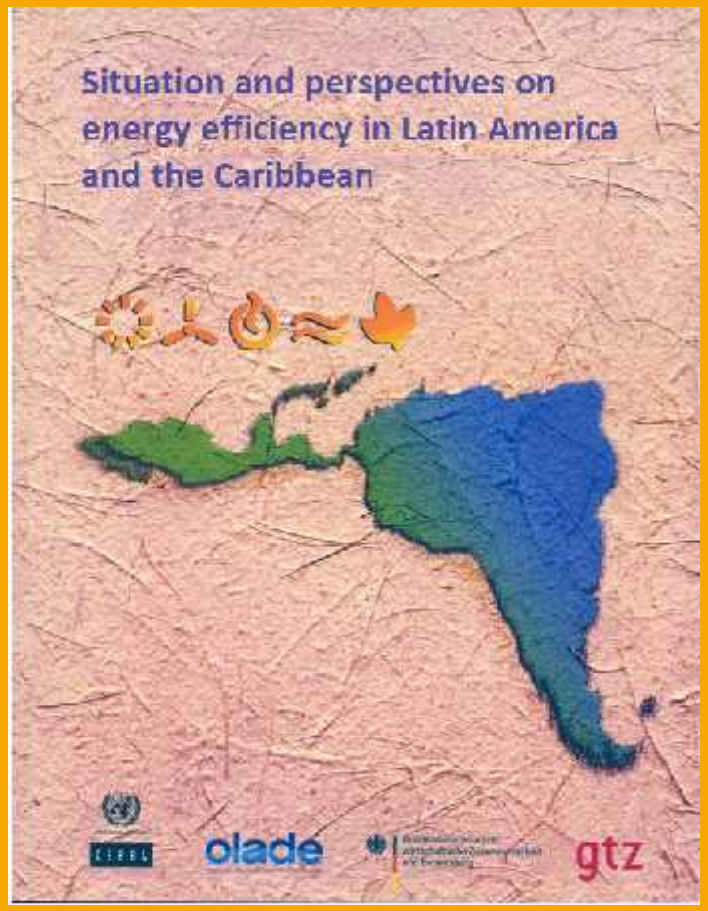

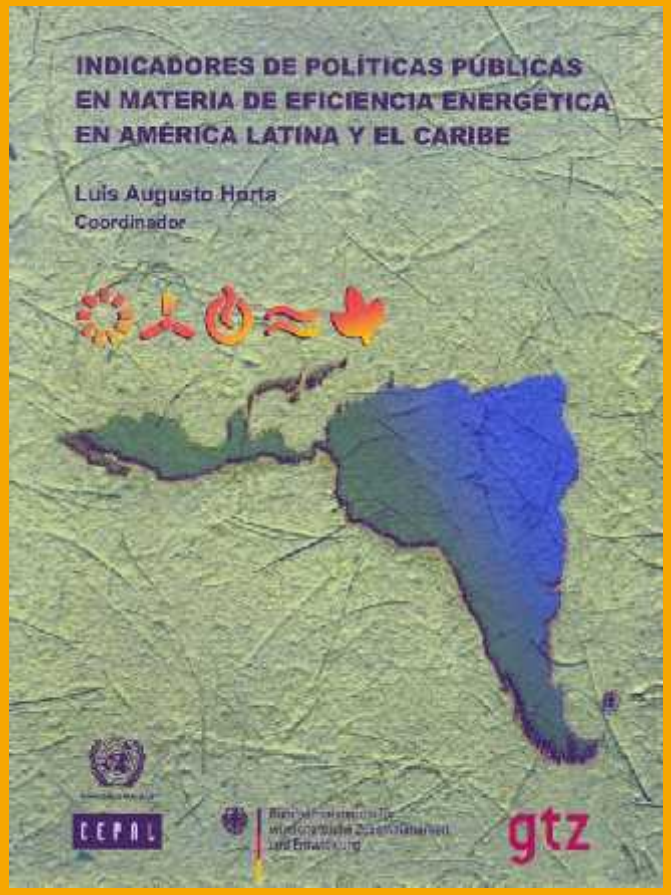

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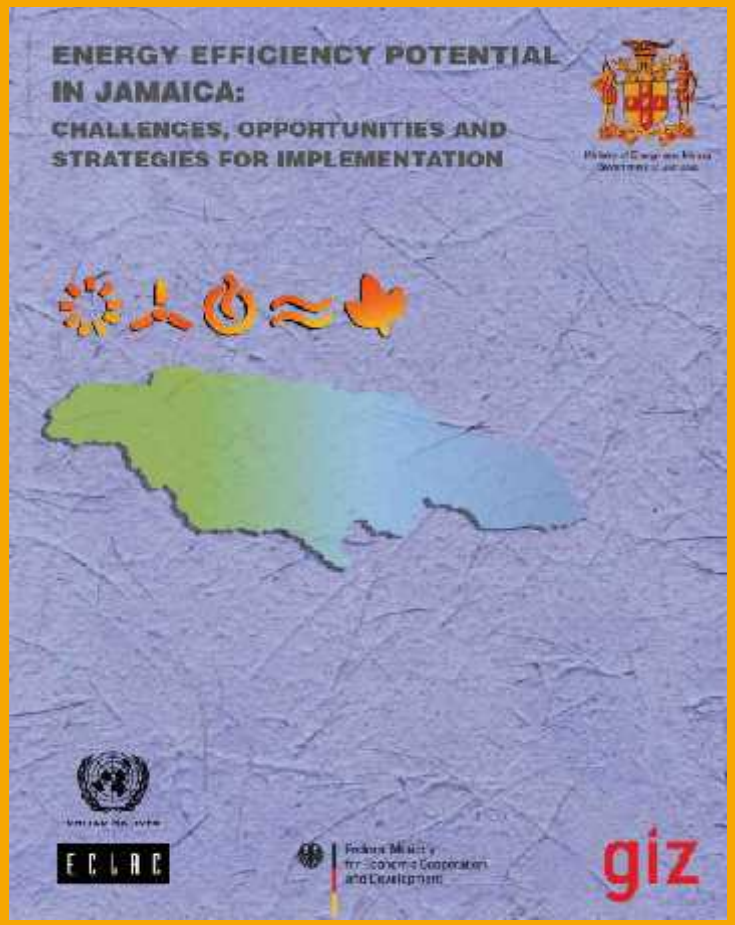

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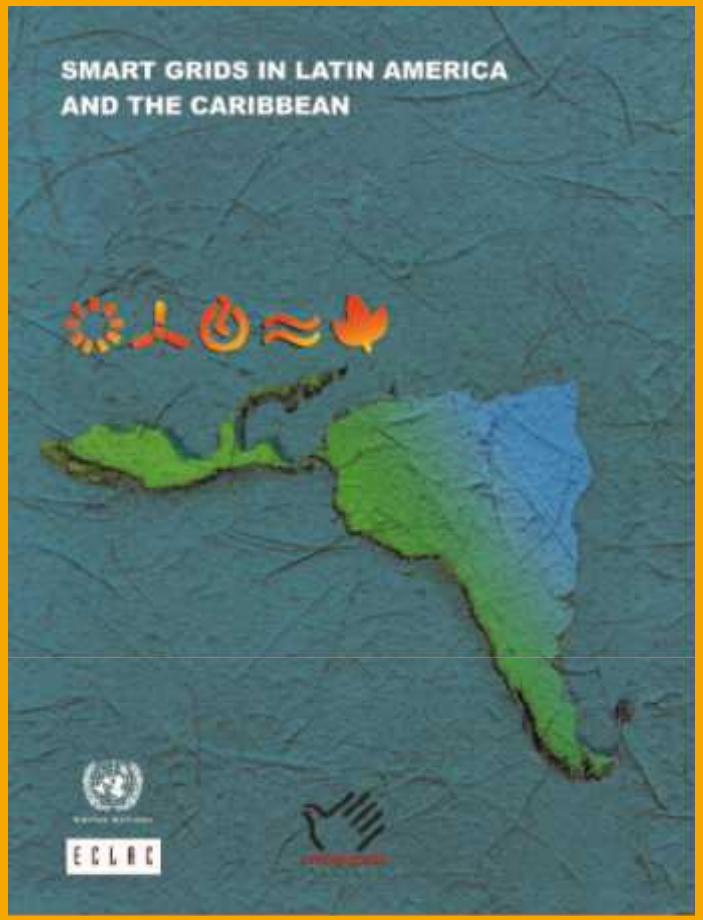

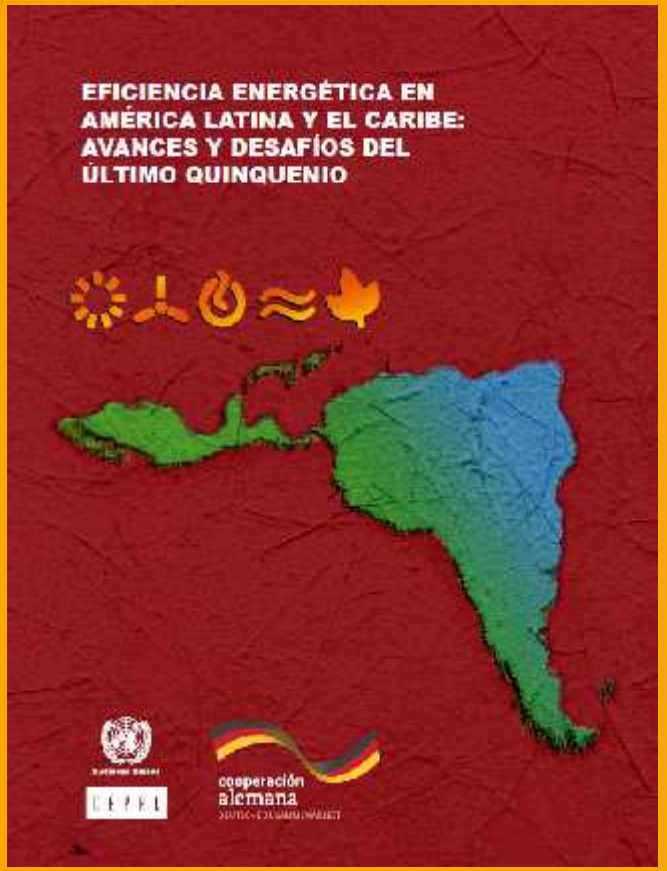

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Barriers to EE programs in LAC

- *Lack of **information***
- Poor assessment on the potential of **energy savings**
- Uncertainty on the **ex-ante assessments** of the returns of EE projects
- Strong preference to **expand generation** than promoting EE programs (doubt of its effectiveness)
- Very **few professionals** trained in EE projects
- Absence of coordinating agents / **promoters of EE** projects
- Unreliability on **ex-post evaluations** given the poor/lacking information → the ECLAC's "BIEE" project !!

PROGRAMA BIEE

Base de indicadores de Eficiencia Energética

http://www.cepal.org/drni/biee/

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ipeec

ADEME

cooperación alemana
DEUTSCHE ZUSAMMENARBEIT

BIEE Project: *Objectives*

- Develop a **database** to assess policies & programs on EE in the participating countries
- Promote the **regional comparability** (at the aggregate as well as the sectoral level)
- Encourage **capacity building** on EE indicators
- Define a **common baseline** based on available info
- Motivate **maturity** in implementation of EE **policies and programs** based on monitoring & measurement
- Promote **regional coordination** on EE issues in energy forums

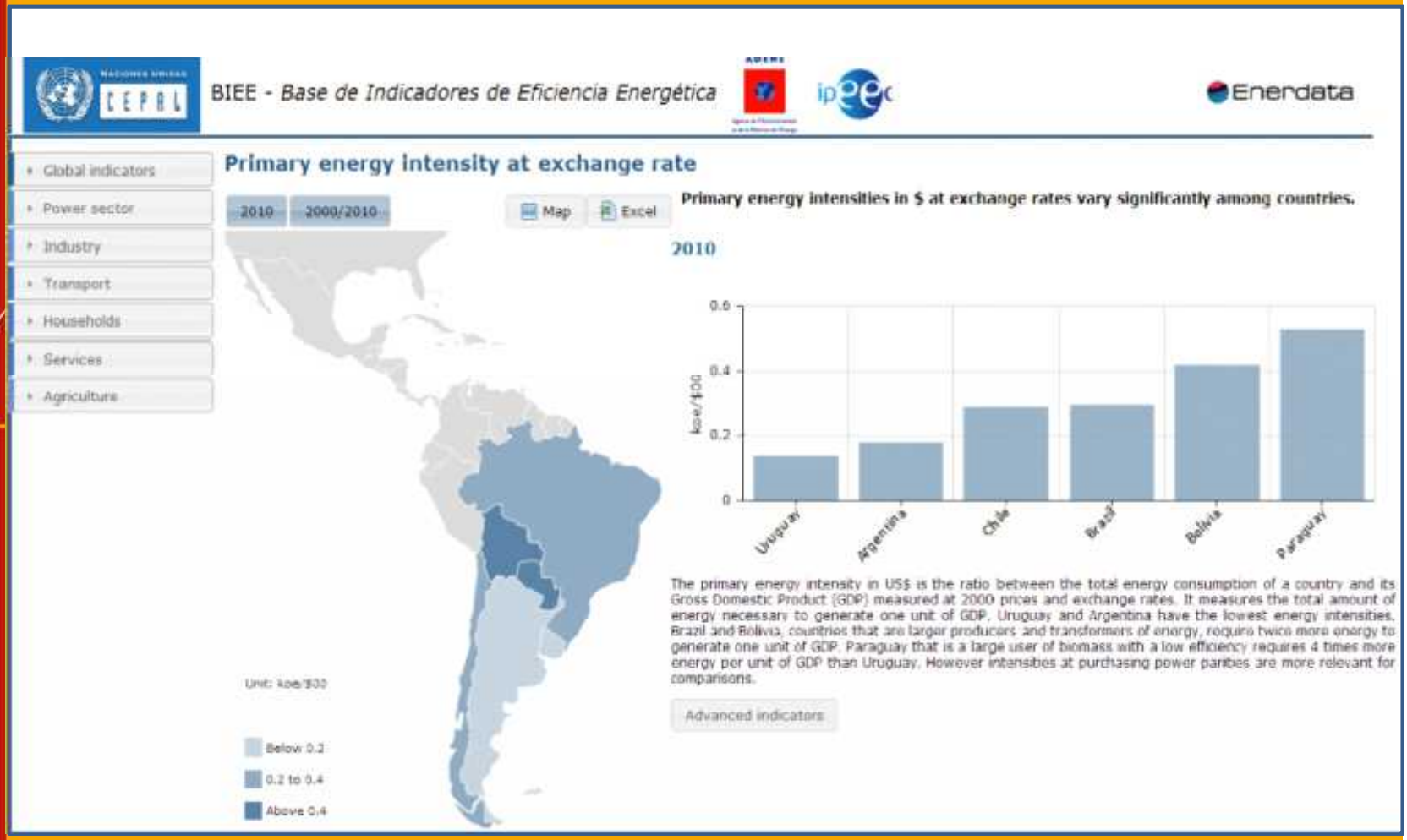
BIEE: *Project structure*

- **Duration:** started in 2012. Target horizon: 2018
- **Financing:** UN funds + German Cooperation (BMZ)
- **Technical Cooperation:** ADEME/France
- **Countries participating:** all Latinamerican countries, including Cuba and Dominican Republic
- **"Newcomer" targets** : English Caribbean countries
- **Observer institutions** : OLADE, CAF, UNDP, BID
- **Management**: ECLAC, in the framework of SE4ALL

BIEE Project: *Activities*

1. **Capacity Building Workshops** (presentation of the indicators' template, data compilation process, estimations and calculations, selection of indicators and National Reports)
2. ***Data collection process*** (based on available info)
3. ***Report the achievements*** of EE policies and programs
4. **Implementation of the <u>Regional Database</u>**
5. ***Reporting*** including analysis and trends comparison
6. **Website** (regional network of officers and experts)

BIEE Project: *the DATAMAPPER*



www.cepal.org/drni/biee

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The "itinerary" of the EE Regional Policy Dialogues

***1st. Dialogue on EE,* Chile**, Oct. 2010.
Focus on: Institutional aspects

***2nd. Dialogue on EE:* Dominican Republic**, Nov. 2011
Focus on: Financial aspects

***3rd. Dialogue on EE,* Panamá** , Nov. 2012
Focus on: Measuring the Energy Efficiency

***4th. Dialogue on Energy Efficiency*, México**, Nov. 2013
Focus on: Sustainable mobility

***5th. Dialogue on Energy Efficiency*, Perú**, Nov. 2014
Focus on: Energy Efficiency Markets

All in the framework of the SE4ALL initiative

VI ENERGY EFFICIENCY POLICY DIALOGUE IN LATIN AMERICA AND THE CARIBBEAN:

ENERGY EFFICIENCY AS STATE POLICY

ORANJESTAD 29 & 30 OCTOBER 2015
Aruba Marriot Stellaris, Smith Blvd 101, Palm Beach

Held in the framework of the UN Global Initiative

With the institutional support of:

Thanks for you attention

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