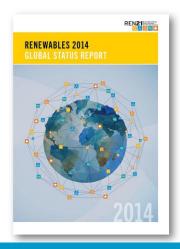


REN21 2014 Global Status Report: Focus on Latin & South America

20 June 2014 2:00 p.m. EDT | 12:00 p.m. BRT

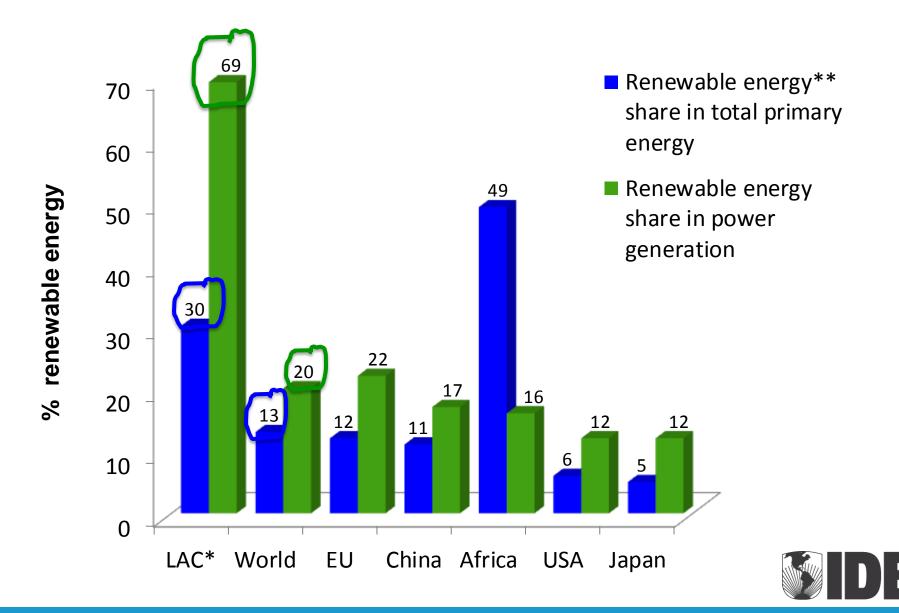




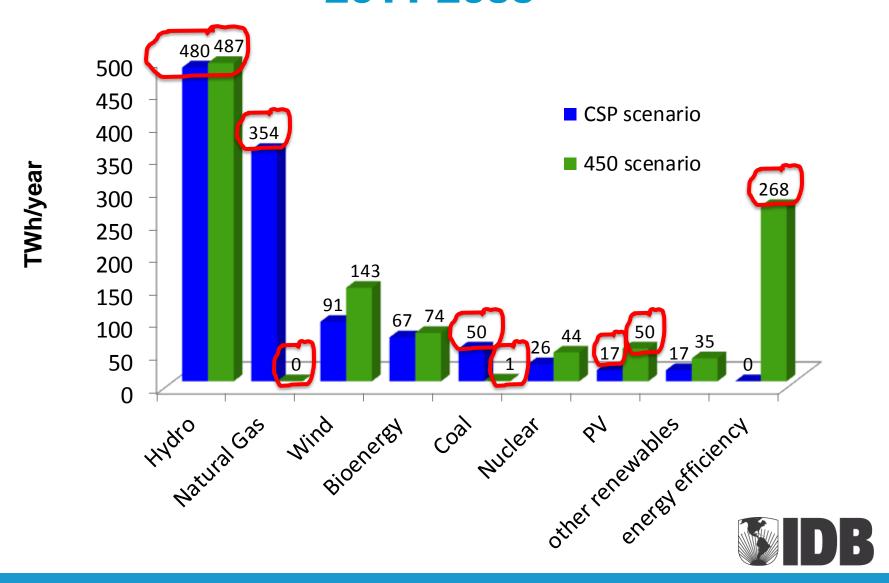


Arnaldo Vieira de Carvalho Inter-American Development Bank – IDB Energy Division Infrastructure and Environment Department Washington, DC arnaldov@iadb.org; +1 202 623 1719

Renewable Energy Use in LAC x World 2011



Additional Power Generation in LAC* 2011-2035



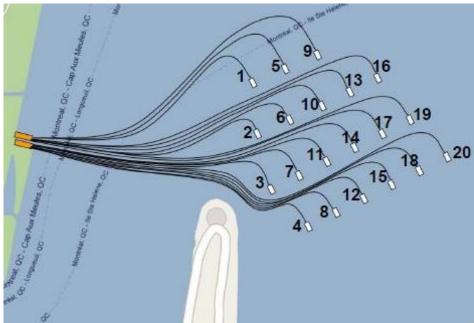
Potential growth in use of Hydrokinetics

- Eliminates need for dams, much less social/environmental impacts
- Prototype 0.5 MW in operation at St Laurents river in Montreal for more than 2 years (>23,000 h); PF ~95%
- Sites in LAC: > 1.5 m/s and depth > 5 m

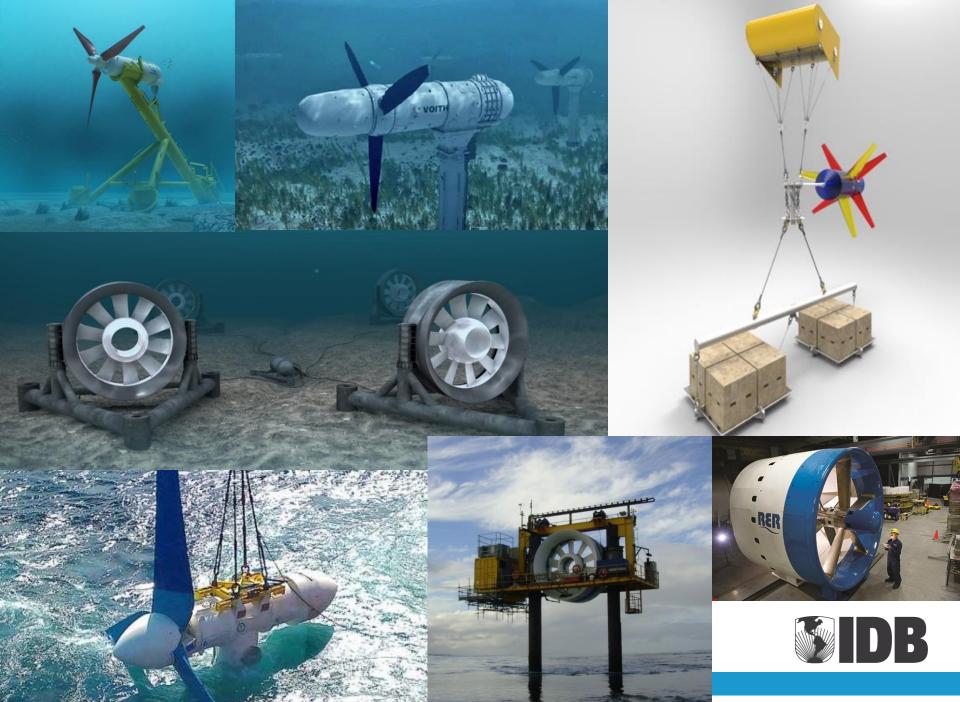












Eurus (Mexico)

Size: 250 MW

Owner: Acciona Energía

Offtaker: Cemex

Investment: US\$ 525 million

Senior debt: US\$ 345 million

- CTF -Clean Technology Fund sub-debt: US\$ 30 million
- IDB participation BID: US\$ 45 million
- Other participants: IFC, BBVA, Bancomext, NAFIN, Banobras, DEG, Proparco, ICO, CAF





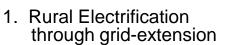
Pozo Almonte & Calama PV Projects (Chile)

- 25 MWp + 1 MWp
- Owner: SolarPack Corporación Tecnológica, S.L.
- Offtaker: Compañía Minera Doña Inés de Collahuasi and Chuquicamata mine from Corporación Nacional del Cobre de Chile (Codelco) with a 20-year PPA
- Investment: US\$ 80 million





National Program for Sustainable Electrification and Renewable Energy - PNESER/Nicaragua





Normalization of electricity service for slums



3. Off-grid rural electrification

US\$418.7 million (IDB and other 7 co-financiers*)



Sustainability of existing isolated systems



6. Transmission systems for rural areas



5. Energy Efficiency

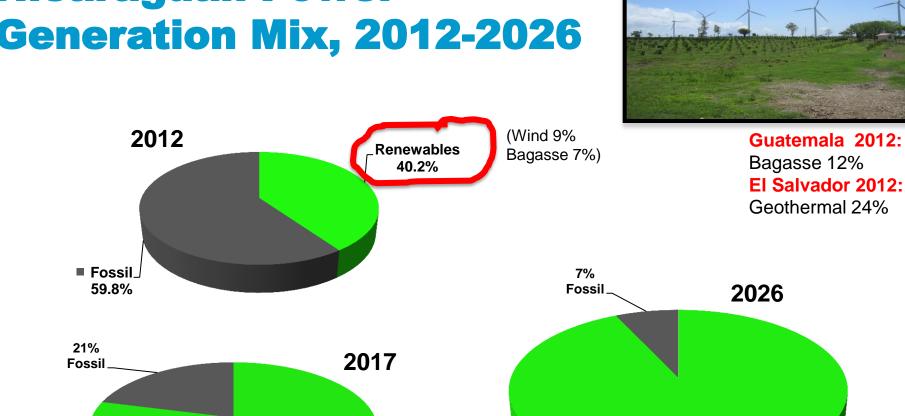


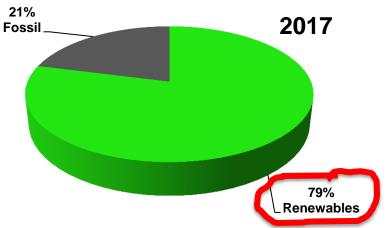
4. Pre investment and studies on power generation with renewable energy

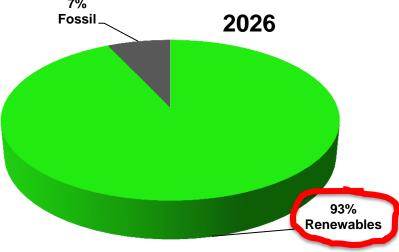
Note*: IDB, cofinanced by European Investment Bank (EIB), Central American Economic Integration Bank (BCIE/CABEI), Nordic Development Fund (FND/NDF), Latin American Investment Facility (LAIF), OPEP Fund, Japan International Cooperation Agency (JICA) and *Export Import Bank of Korea* (KEXIM).



Nicaraguan Power Generation Mix, 2012-2026



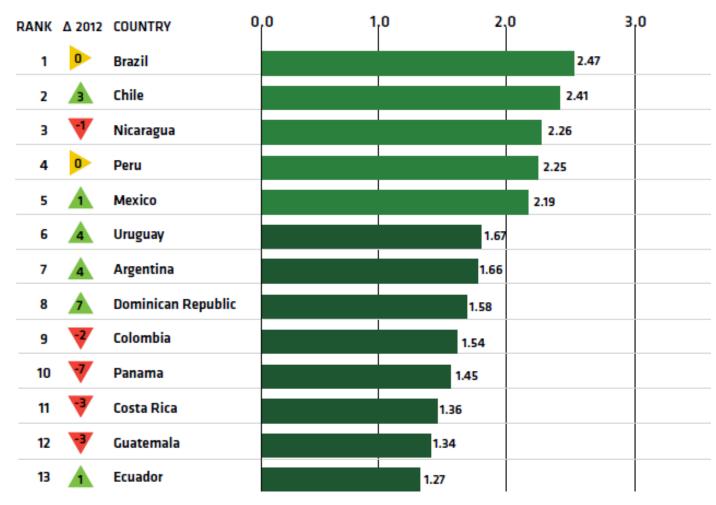






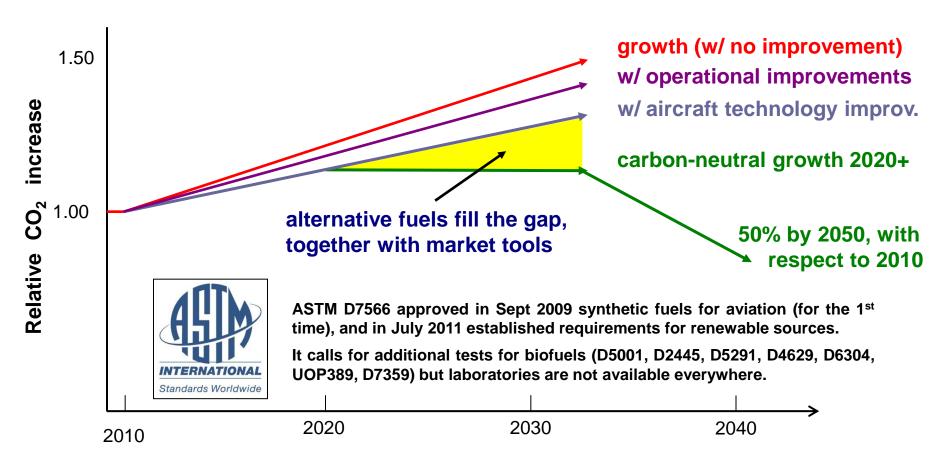
Climatescope 2013*

Overall 2013 Climatescope score Ranking and scores by country





Aviation committed to carbon-neutral growth





IDB Initiative for Sustainable Aviation Biofuels

- ✓ Brazil Action Plan for FIFA World Cup 2014 (200 biofuel flights), COP 20 and Rio 2016 Olympics: studies and planning to reduce carbon footprint of flights through the use of biofuels in cooperation with the Brazilian Biojet fuel Platform
- ✓ Support demonstration flights with Azul (1st ever with DSHC) and GOL (as part of ICAO Flightpath) during Rio+20 and 1st Brazilian biojet fuel commercial flight with GOL in October 2013





SE4ALL 2030 Objectives



Guarantee
Universal Access
to Modern Energy



Double

Renewable Energy
in Global Energy Mix



Double

Energy Efficiency
Rate of Improvement Globally

LOBAI

- 1.3 billion people without access to electricity
- 2.7 billion people without clean cooking facilities
- **13% in 2011** to 26% in 2030
- 27% needed by 2035 for IEA WEO 2013¹ 450 ppm² scenario (2°C increase)
- 2.4% annual reduction in energy intensity by 2030, compared to
 1.2% from 1970 to 2008 as measure of energy efficiency

LAC

- 30 million people without access to electricity
- 85 million people without clean cooking facilities
- Already 30% in 2011
- 44% needed by 2035 for IEA WEO 2013² 450 ppm scenario
- LAC energy intensity reduced only 0.43% during 1970-2012
- Major effort needed
- Means there are many opportunities



IDB Commitment to SE4ALL



U\$ 5 Billion in 5 Years



Pres. Moreno Member of Global Advisory Board



IDB as Regional Hub for SE4ALL







Supporting National Universal Access Plans

- IDB will support any member country that wishes to generate *National Plans for Universal Access to Modern Energy*
- Support would be for planning that:
 - ✓ Addresses, at a minimum, access to electricity and cooking fuels
 - ✓ Uses information systems like GIS allowing for the optimization of investment and design solutions
 - ✓ Maximizes existing renewable resources en each country
 - ✓ Clearly and objectively defines the areas that should be attended to with off-grid and on-grid





THANK YOU

