

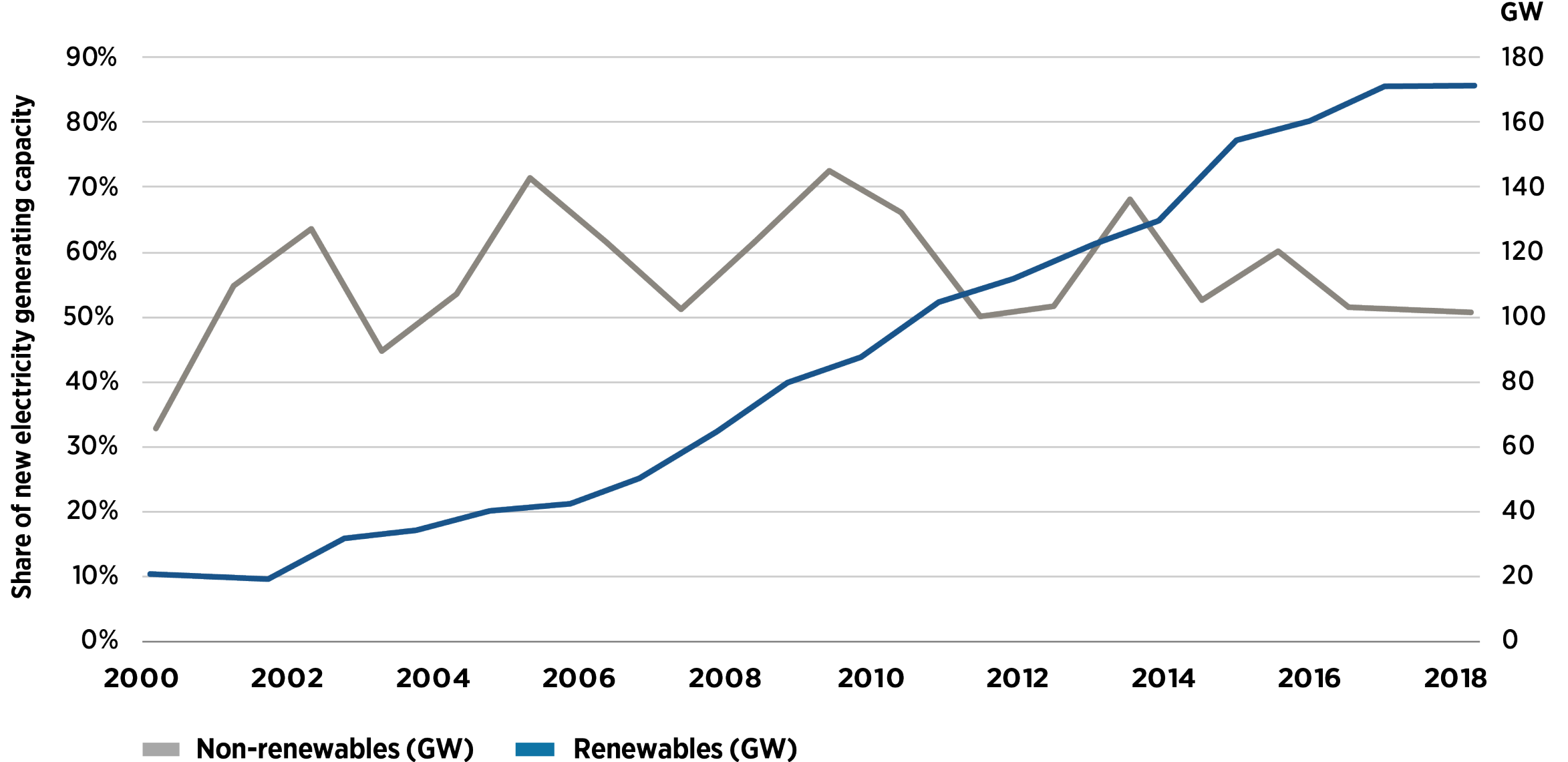
Renewable Energy in Latin America

*IV International Renewable Energy Congress: Leading the Energy
Transition*

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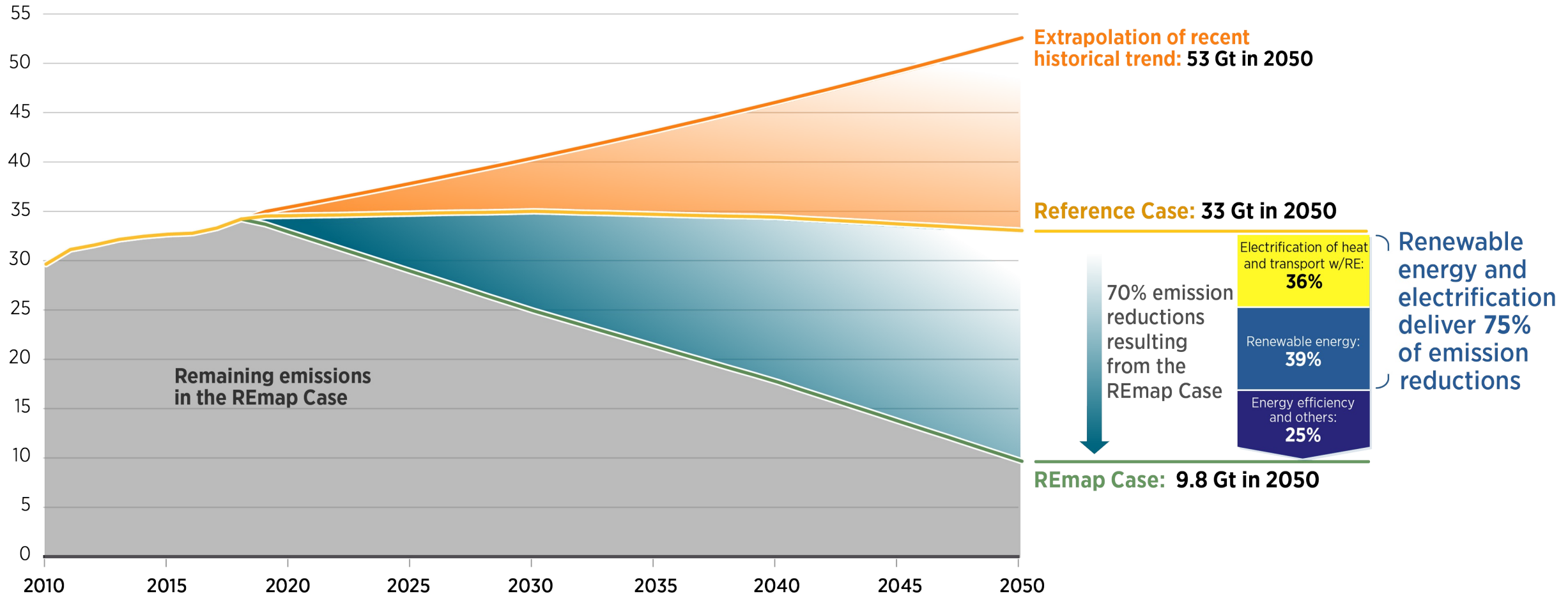


Capacity additions in power sector



Renewables & electrification can deliver 75% of energy-related CO2 emission reductions needed

Annual energy-related CO₂ emissions, 2010-2050 (Gt/yr)

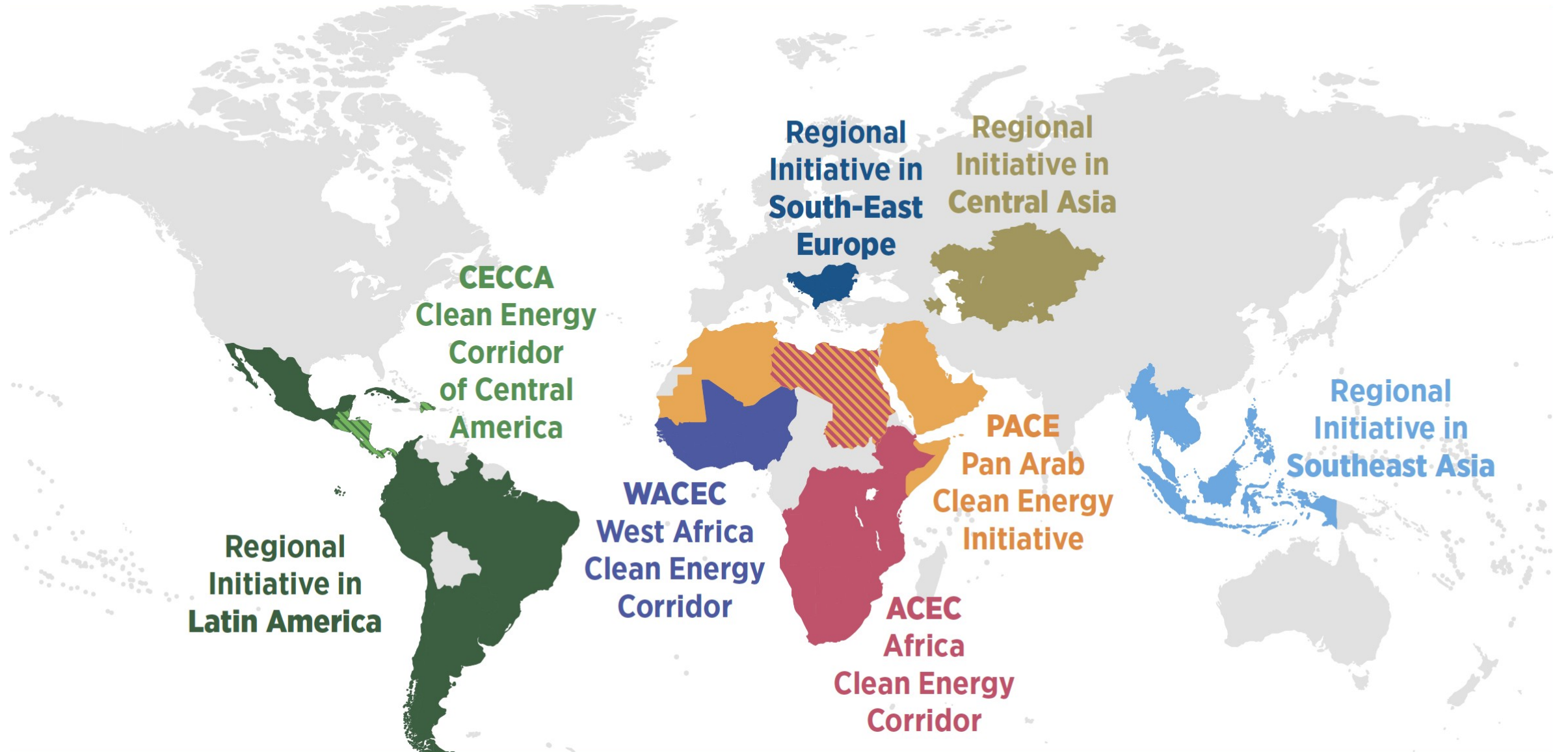


With energy efficiency included, this rises to over 90%.

Regional key indicators infographic for Latin America

			REmap		
			2016	2030	2050
Energy use	TPES	EJ/yr	27	30	33
	TFEC	EJ/yr	22	22	21
RE shares	RE share in TFEC	%	29%	47%	67%
	RE share in TPES	%	31%	53%	73%
	RE share in power generation	%	63%	85%	93%
Electrification	Share of electricity use in TFEC	%	18%	26%	39%

- The renewables share in the energy mix will need to increase to 93% in 2050.
- RE, EE and infrastructure investment needs in Latin America amount to \$ 4 trillion until 2050.




Clean Energy Corridor of Central America – CECCA

- **Supports Central American countries**
in having a larger penetration of RE in the power system
(Belize, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama)
- **Promotes the cross-border trade**
of clean electricity within the SIEPAC line
- **CECCA Implementation Strategy**
supported by SICA Ministerial Approval (December 2015)



- **Regional REMap & Flextool Assessment**
Regional Scenarios of RE penetration in the energy sector and assessment of flexibility of the power system
- **Further Training on Grid Integration**
Simulation of VRE in the grid for grid operators
- **Capacity Building on Long-term Planning**
Share best practices and experiences on long-term planning methodologies for the energy sector
- **Investment Forums for Central America and South America**
Dialogue for improved policy and regulatory frameworks for RE investments; Support RE project development and access to sustainable finance
- **Geothermal energy as key energy source**
Explore direct uses for the agri-food sector in the region



REGIONAL ACTION PLAN:
ACCELERATING RENEWABLE ENERGY
DEPLOYMENT IN LATIN AMERICA

Latin America hosts some of the world's most dynamic renewable energy markets, with more than a quarter of primary energy coming from renewables, twice the global average. Across the region, hydropower plays a central role in the energy sector, and while several Latin America countries hold some of the world's most promising geothermal resources, others have pioneered bioenergy deployment. Yet, despite these positive developments, energy demand is rising, energy security remains a concern, and the impacts from climate change in the energy sector are becoming more pronounced.

The region is advancing in low-carbon growth. It derives more than 200 gigawatts (GW) of its power (56% of the total) from renewable sources, mainly large-scale hydropower and biomass. More recently, countries have begun deploying increasing levels of solar, wind and geothermal power, which total over 10 GW of installed capacity. The region is also fostering the growth of distributed energy resources and holds significant potential to accelerate decentralised renewable energy generation.

Latin America has seen significant investment in renewable energy in recent years, with total investment exceeding USD 16 billion, or about 6% of the global total. Between 2010 and 2015, total investment in renewable power generation in the region reached nearly USD 120 billion, placing several countries in Latin America among the top 10 largest renewable energy markets globally. These trends attest to the rapid evolution of the region's energy mix towards a more diversified set of technologies, with more countries adopting different forms of renewables.

Hydropower assets will continue to play a critical role in the region's renewable energy scale-up, and are consistent with the integration of variable renewable energy resources. Latin America has developed extensive local knowledge on the social and environmental considerations to ensure sustainability in hydropower generation, which can help guide deployment in the future.

Bioenergy is also a field of significant potential for Latin America. The production of bioenergy for transport from sugarcane was pioneered in the region and is used at scale in key markets, along with considerable amounts of liquid biofuels for transport from maize and soy. As in other regions, bioenergy from crop residues and

THANK YOU

