

LOW EMISSION CLIMATE RESILIENT ENERGY FOR PERU

Sao Paulo, September 23 2015

PROGRAMA DE INVERSIÓN RESPONSABLE - PIR

Network Supporter of:



About PIR

Network Supporter of UNPRI to mainstream responsible investment and sustainable finance practices in the Pacific Alliance Economies. The members of PIR are pension funds, insurance companies and long term investment funds.

AREAS OF WORK:

- ENVIRONMENT, SOCIAL AND CORPORATE GOVERNANCE (ESG) RISK
- PORTFOLIO DEVELOPMENT
- SUSTAINABLE CAPITAL MARKETS
- CLIMATE FINANCE



An investor initiative in partnership with UNEP Finance Initiative and UN Global Compact

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Principles for Responsible Investment > Signatories > Network Supporters

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Network Supporters

PRI Network Supporters are non-profit peer organisations that would like to publicly express support for the PRI within their constituencies. This partnership enables Network Supporters to work with the PRI to raise awareness of responsible investment and the PRI within the investment community in different regions and sectors. Current PRI Network Supporters include:

Latin America

- Abrapp
- ABVCAP
- APIMEC
- PIR – Programa de Inversión Responsable

North America

- CORPaTH
- Emerging Markets Private Equity Association (EMPEA)
- Global Unions Committee on Workers Capital (CWC)
- Heartland Capital Strategies (HCS)

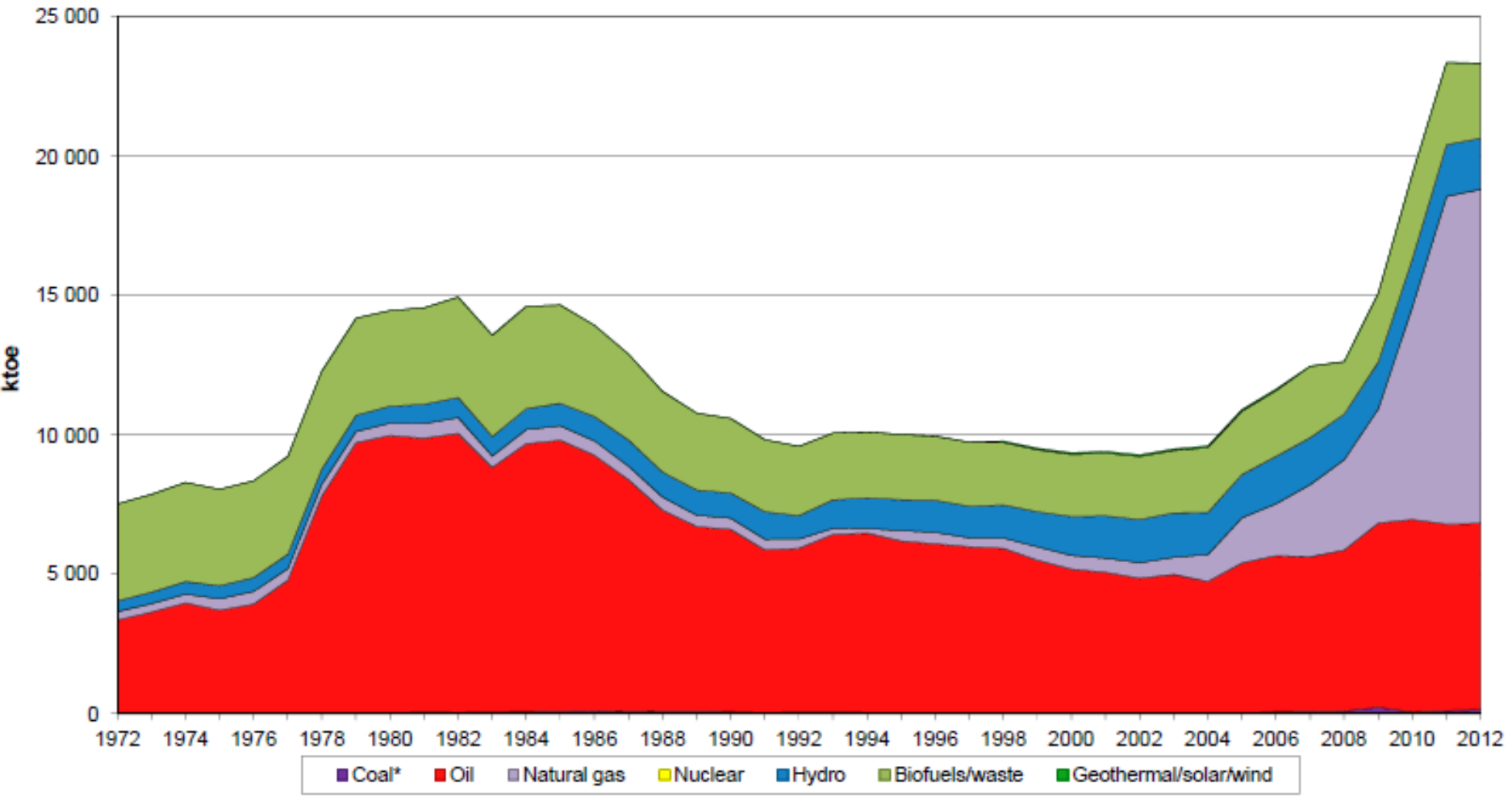
Europe

- AFIC (Association Française des Investisseurs pour la Croissance)
- ASINVER

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PERU'S ENERGY PRODUCTION 1972 - 2012



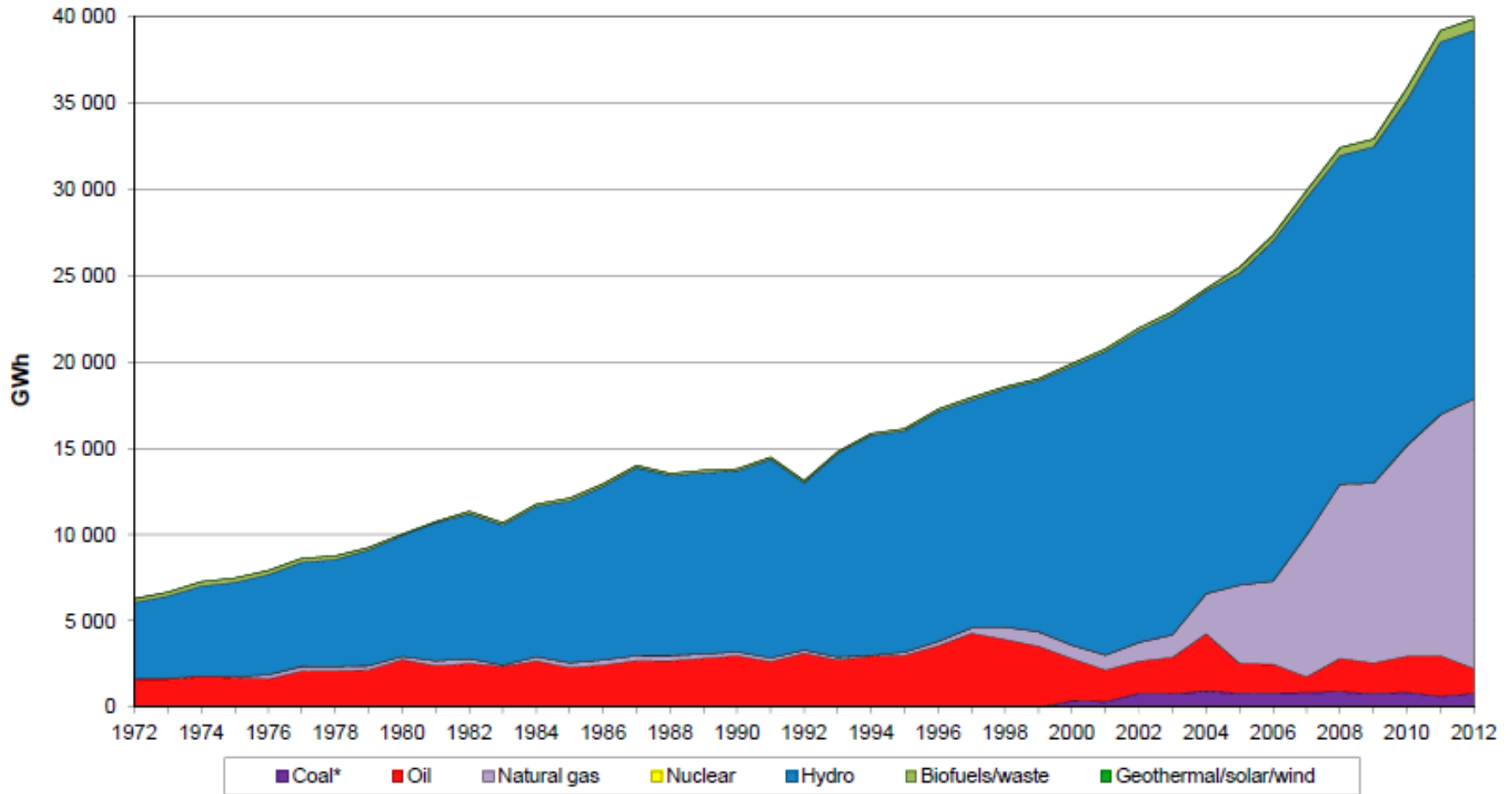
Source: IEA

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PERU'S ELECTRICITY PRODUCTION 1972 - 2012



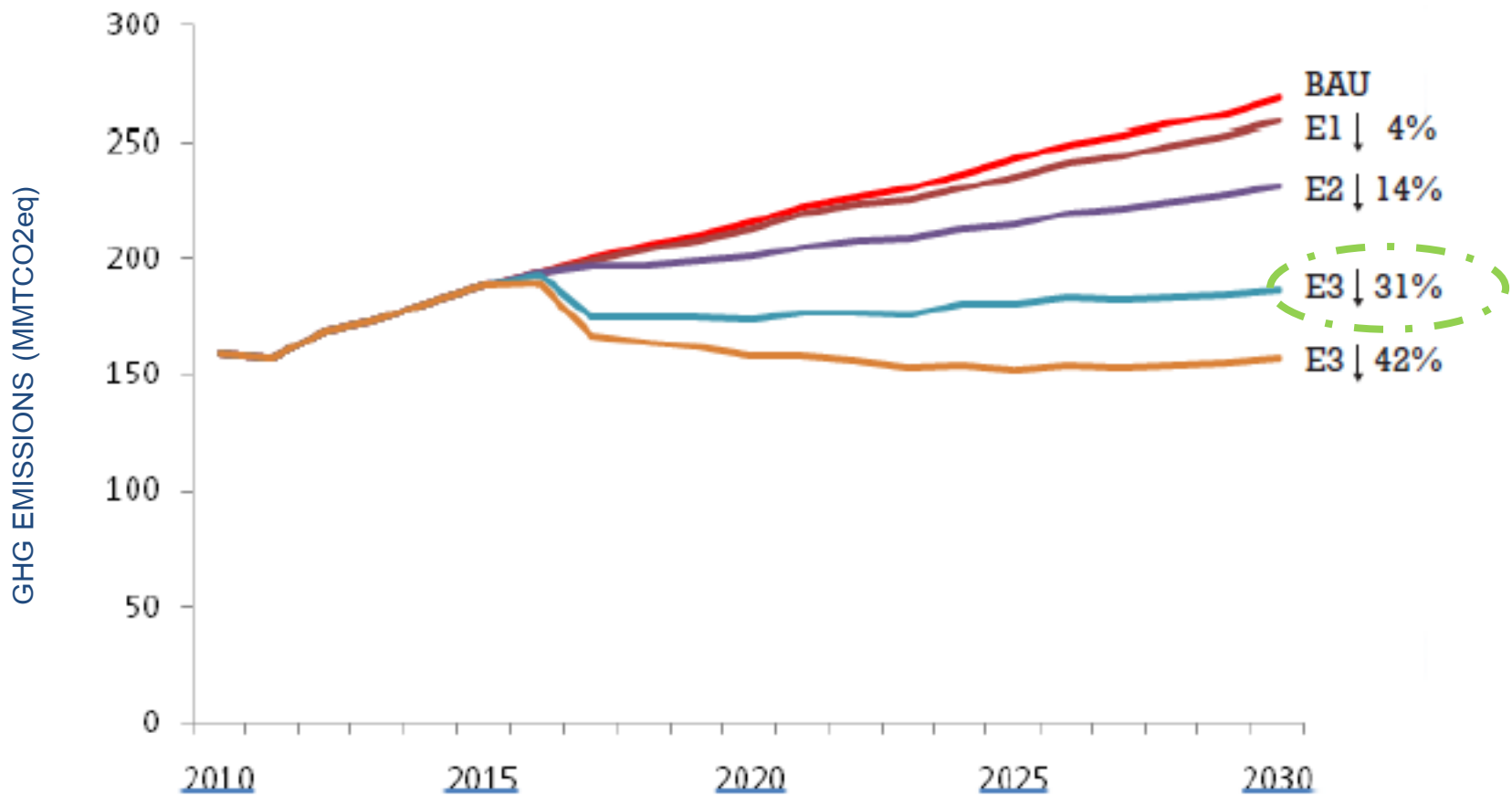
Source: IEA

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LOW EMISSION DEVELOPMENT SCENARIOS FOR PERU



Source: Technical Secretariat of the INDC Commission – RS N° 129-2015-PCM

ENERGY POLICY FRAMEWORK FOR THE LOW EMISSION DEVELOPMENT OF PERU

- National Energy Plan 2014-2025 (MEM)
- D.L. 1002 Law for the Promotion of Electricity Generation with RER
- First Auction RER for power supply to areas not connected to the grid (MEM - OSINERGMIN)
- Supreme Decree No. 064-2005-EM Cogeneration Regulation (MEM)
- Benchmark Energy Efficiency Plan 2009-2018
- 27345 Act for the Promotion of Energy Efficiency

LOW EMISSION DEVELOPMENT SCENARIOS FOR PERU

E3: MITIGATION SCENARIO III

Achievement of the Mitigation

Scenario III would imply a 31% reduction in GHG emissions compared to a BAU scenario.

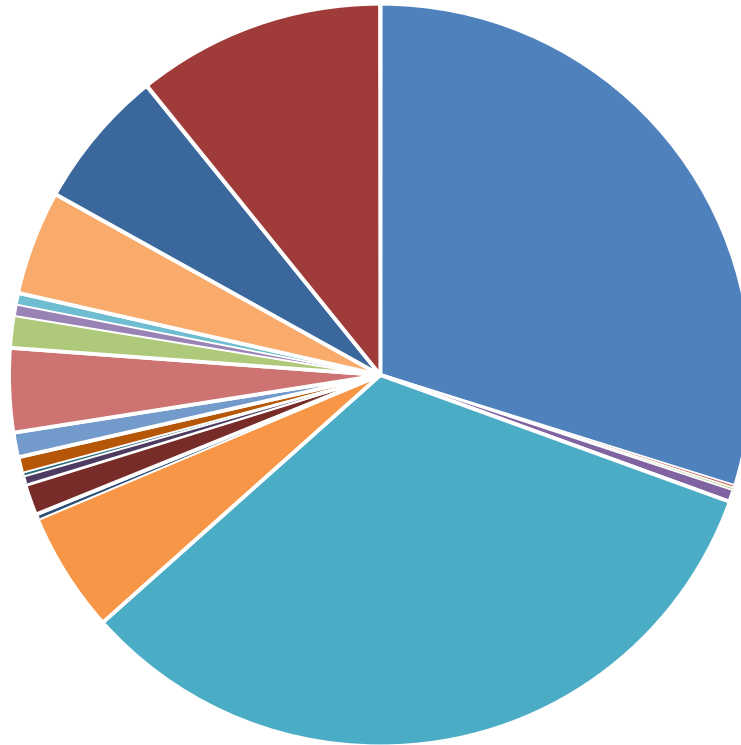
E3 would mean around 82.2 million tons of CO₂eq reduced annually through 58 mitigation actions.

Source: Adapted from “Peru’s iNDC proposal for public consultation”
<http://www.minam.gob.pe/wp-content/uploads/2015/06/contribucion-iNDC21.pdf>

MITIGATION OPTION FOR ENERGY SECTOR: E3	MM Ton CO ₂ eq
RE Mix	3.57
PV Solar distributed generation	0.015
PV rural electrification	0.013
Smart Grids	0.057
Interconnection with Ecuador	3.934
Reducing losses in national grid	0.629
Cogeneration in refineries	0.025
Cogeneration in industry	0.161
Cogeneration in hospitals	0.005
Thermosolar water heating	0.044
Engine replacement	0.02
VSD technology for engines	0.078
Boilers optimization	0.128
Boilers replacement	0.437
Efficient residential lighting	0.17
Efficient commercial lighting	0.059
Efficient public lighting	0.056
EE labels for domestic appliances	0.543
EE in brick manufacturing	0.73
Energy Management in industry and services	1.294
TOTAL	11.968

THE ENERGY COMPONENT OF THE INDC

- RE Mix
- PV Solar distributed generation
- PV rural electrification
- Smart Grids
- Interconnection with Ecuador
- Reducing losses in national grid
- Cogeneration in refineries
- Cogeneration in industry
- Cogeneration in hospitals
- Thermosolar water heating
- Engine replacement
- VSD technology for engines
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- Efficient residential lighting
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- EE labels for domestic appliances
- EE in brick manufacturing
- Energy Management in industry and services

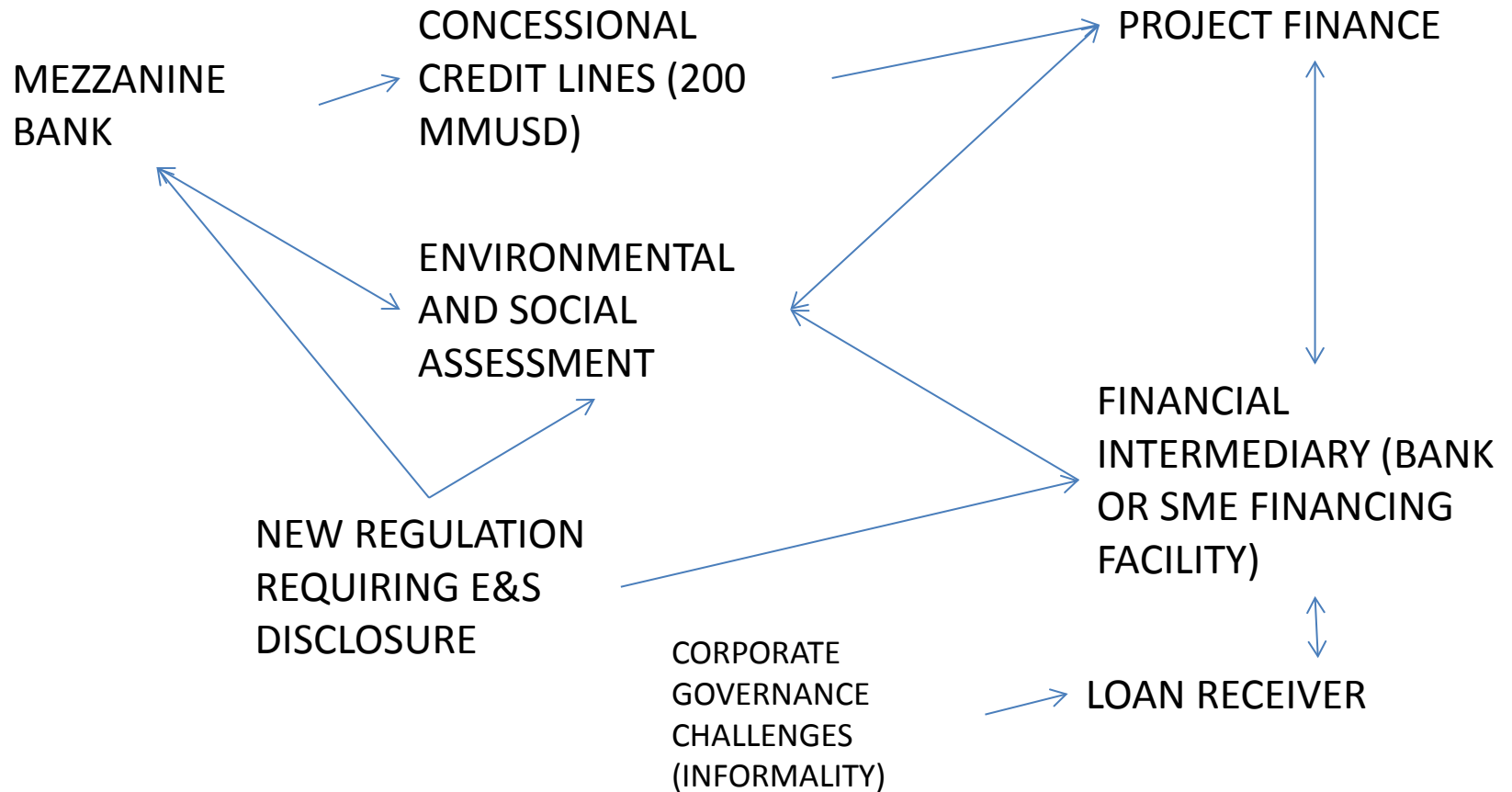


Around 12 million tons Co2eq of annual GHG emissions reductions under E3 may come from Energy related measures.

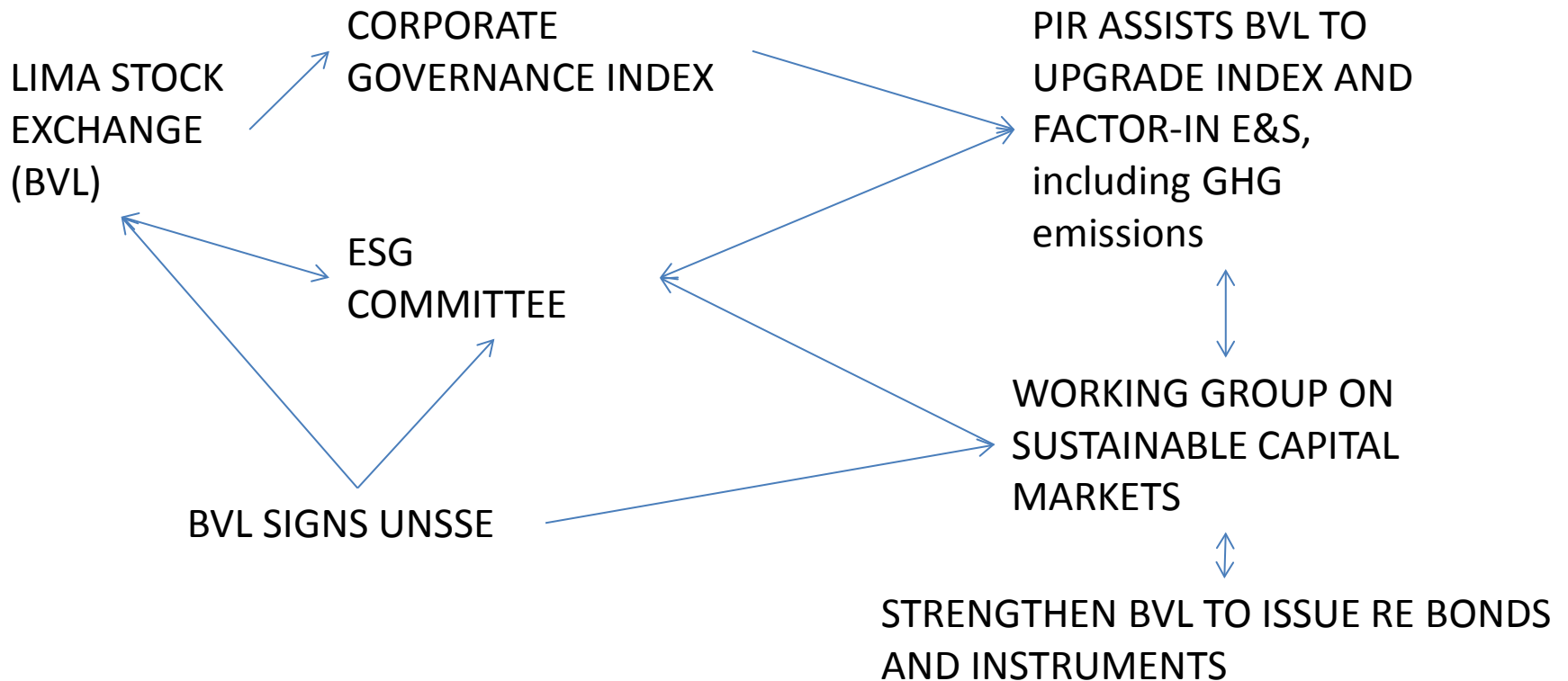
The energy component of the Peruvian INDC represents 14.5% of GHG emissions reductions.

Source: Adapted from "Peru's INDC proposal for public consultation" <http://www.minam.gob.pe/wp-content/uploads/2015/06/contribucion-iNDC21.pdf>

FINANCIAL INSTRUMENTS FOR RE/EE FINANCING IN PERU: CONCESSIONAL CREDIT LINE



FINANCIAL INSTRUMENTS FOR RE/EE FINANCING IN PERU: CAPITAL MARKETS



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