



















Ministry of Energy and Mines

Peru Investment Roadshow

September 20-21,2018

Francisco Ísmodes

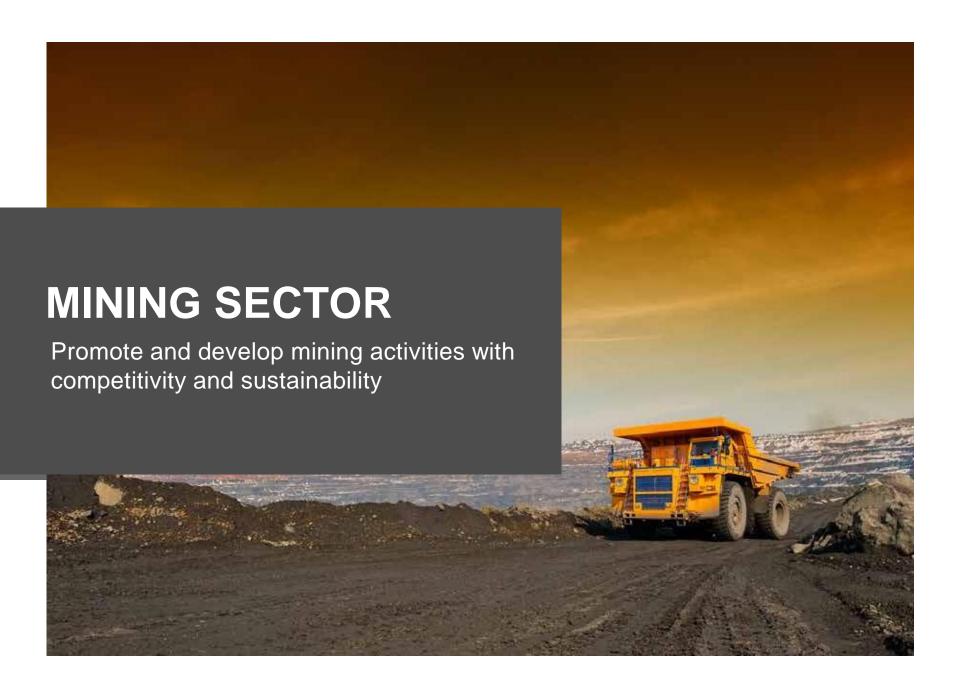
Minister













Our vision to 2030

By 2030, the mining sector aspires to be:

- Competitive and formalized, modern and safe, with consolidated investments and with added value.
- Agile and have stable public policies, articulator of territorial development, with access to ownership of concessions.
- Coexistence with other productive activities, responsible for the environment and the social and cultural environment.
- All environmental liabilities properly remediated and revegetated mine closures.





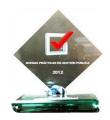
Geological and Mining Cadastre System



Technical institution affiliated to the Ministry of Energy and Mines, in charge of generating uptodate, national geological information as well as granting mining concessions and administering the National Mining Cadastre.

- Viewable in over 180 countries across 5 continents.
- More than 600,000 daily interactions and 1,200 million accumulated.
- Multiple award winner:
 - Award for best practices in public management 2012
 - Latin American Award 2013 ESRI
 - Award for best practices in geo-information 2012
 - Latin American Award 2018 ESRI









New Department of Mining Promotion and Sustainability

Goals:

- Propose and implement policies to promote investments in mining.
- Articulate with the sectors involved in granting permits for mining development with the intent of simplifying procedures and facilitating granting of permits.
- Conduct research to promote sustainable mining with high social and environmental standards.
- Disseminate mining statistics and investment opportunities in mineral exploration.









Mining & Energy Centre of Excellence "RIMAY"

Goals:

- Share and promote best practices in mining and energy.
- Generate consensus for a more sustainable use of mining-energy resources (use of new technologies and remediation of environmental liabilities).
- Take advantage of lessons learnt in mining and energy operations.





Mining and Energy Management and Information Committee

Aim: strengthen the presence of National Government at local level in order to:

- Act proactively in the processing of complaints and environmental and social concerns.
- Ensure compliance of commitments assumed by the Government.
- Exercise more vigilance and be more active in environmental care and in the remediation of environmental liabilities.
- Implement more effective and measurable social projects which benefit communities.
- Guarantee access to energy for all Peruvians.

Remediation of environmental liabilities

 Propose new laws that encourage the remediation of environmental liabilities ("Works for Taxes" mechanism)



Projects yet to be awarded

COLCA

- Copper porphyry project.
- Zone of influence: Districts of Cotabambas and Tambobamba, Apurimac region
- Current status: Held by ProInversión, in study.

* JALAOCA

Two identified areas:

Pucasalla: Copper – gold project

Llamoja: Copper – molybdenum project

 Zone of influence: Provinces of Aymaraes and Antabamba, Apurimac region

Current status: Estimated award date November 2018





In 2017

Mining Investment grew 17.8% compared to 2016 (US\$ 3,928 million)



Canadian investments comprised US\$ 772.3 million¹

❖ Exploration mining investments grew 28.5% ¹ (US\$ 484 million)



7% ² of the world's exploration budget

❖ Peru produced ³:



2.45 MM TMF of copper(2nd world copper producer)



4.86 MM ounces of gold (6th world gold producer)

Source:

^{1/} Mining Yearbook- MINEM.

^{2/} S&P Global Market Intelligence (March 2018)

^{3/} Monthly Statistical Declaration. Date: December2017.



Peru: Global player

	MINERAL RESOURCES		MINING PROD	UCTION
PRODUCT	LATIN-AMERICA	WORLD	LATIN-AMERICA	WORLD
Silver Gold	<u>1</u>	7	2	2
Copper Zinc	2	3	2	2
Lead	1	4	1	4
Tin Molybdenu	3 m 1	11 3	3 2	6 4

Source: US Geological Survey, "Mineral Commodity Summaries 2018".



Trade between Canada - Peru

Increased competitiveness of Peruvian exports

As of 2017, Canada is...

- √ 7th most important market for Peruvian exports
- ✓ Represents 3% of the total value of exports (US \$ 917 million)
- ✓ Exported products: gold, lead, copper, zinc and tin

While Peru is...

- ✓ Canada's 2nd largest bilateral trade partner in South and Central America
- √ 3rd most important destination for Canadian investments in the region

Free Trade Agreement Canada - Peru



CPTPP: Comprehensive and Progressive Agreement for Trans- Pacific Partnership





Canadian mining investment in Peru

Current operations

Investor	Operator	Metal
Teck Resources Limited 1	Compañía Minera Antamina S.A.	Copper, zinc, silver and molybdenum
Barrick Gold Corp.	Minera Barrick Misquichilca S.A	Gold and silver
Hudbay Peru S.A.C	Hudbay Peru S.A.C	Gold, silver, molybdenum and copper
Tahoe Resources Inc,	Shahuindo S.A.C.	Gold and silver
Tahoe Resources Inc,	La Arena S.A.	Gold and silver

¹22.5% of the shares of Compañía Minera Antamina S.A.

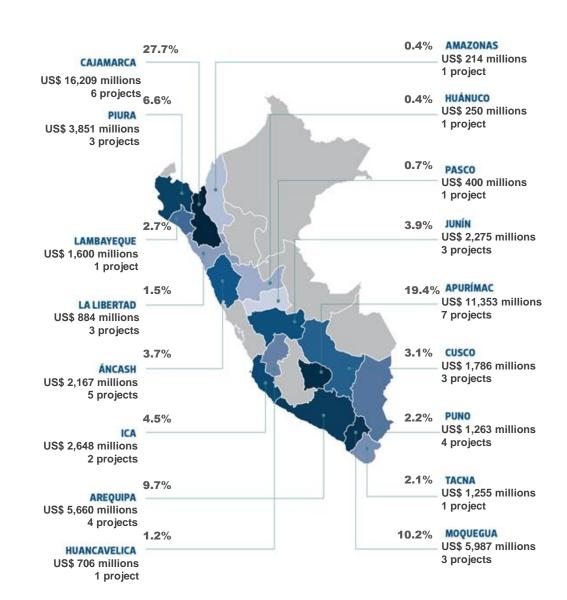
Source: Monthly Statistical Declaration (ESTAMIN)



Mining projects to 2021

Goal: "Make feasible no less than US\$ 21 billion in investment by 2021"

- US\$ 14 billion have already been committed.
- There are currently 49
 projects in our portfolio
 which represent an investment amount of US\$ 58 billion.





US\$ 14,000 million in Committed projects

	Enterprise	Country	Phase	Investment
Marcona Expansion	Shougang Hierro Peru	*;	Completed construction	US \$ 1 100
Shahuindo Expansion	Shahuindo SAC	*	Completed construction	US \$ 109
Quellaveco	Angloamerican		Under construction	US \$ 5 300
Mina Justa	Marcobre SAC	(a)	Under construction	US \$ 1 600
Toromocho Expansion	Minera Chinalco	*;	Under construction	US \$ 1 355
Toquepala Expansion	Southern Peru Copper Corp		Under construction	US \$ 1 255
Quecher Main	Minsur S.A.		Under construction	US \$ 300
Relaves B2 San Rafael	Minera Yanacocha SRL	©	Under construction	US \$ 200
Ariana	Ariana Operaciones Mineras SAC		Under construction	US \$ 125
Corani	Bear Creek Mining S.A.C.	*	Detail engineering	US \$ 585
Pampa de Pongo	Jinzhao Mining Perú S.A.	*:	Detail engineering	US \$ 2 500
Pachapaqui Expansion	ICM Pachapaqui S.A.C.	"• "	Feasibility	US \$ 117



Additional projects to reach 2021 goal

inera Zafranal	*	F 11.11.	116.6.4.446
		Feasibility	US \$ 1 160
Copper Perú S.A.	*	Feasibility	US \$ 1 600
na Copper SAC	*3	Feasibility	US \$ 3 500
Peru Copper Corp		Feasibility	US \$ 1 400
Antares Peru SAC	*	Prefeasibility	US \$ 2 824
n Peru Copper Corp	*	Prefeasibility	US \$ 2 500
Apurímac S.A.	*	Prefeasibility	US \$ 1 486
	Peru Copper Corp Antares Peru SAC In Peru Copper Corp	Peru Copper Corp Antares Peru SAC The Peru Copper Corp The Peru Copper Corp	Peru Copper Corp Antares Peru SAC Prefeasibility Prefeasibility Prefeasibility Prefeasibility Prefeasibility



Canadian mining investment in Peru

Portfolio of exploration projects

In our Portfolio of Mining Exploration Projects, 12 Canadian investment projects were selected. The following table lists only those with an investment amount greater than US\$ 4 million.

Investor	Operator	Exploration Project	Investment amount (US\$ Millions)
Panoro Minerals Ltd / Cordillera Copper Ltd	Panoro Apurímac S.A.	Cotabambas-Ccalla (2°MEIAsd)	35.0
Tahoe Resources Inc .	Shahuindo S.A.C.	Shahuindo	13.2
First Quantum Minerals Ltd.	Minera Antares Perú S.A.C.	Cristo de los Andes 1	5.2
Chakana Resources	Chakana Resources S.A.C.	Soledad	4.3
Pan American Silver Corp	Pan American Silver Huarón S.A.	San Pedro	4.0
	TOTAL		61.5

Source: Portfolio of Mining Exploration Projects, MINEM. (March, 2018)



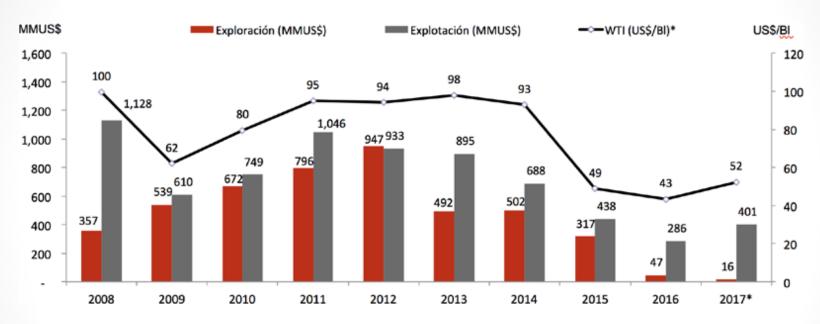


Advances in Oil & Gas sector

- New Vice Ministry of Oil & Gas implemented in 2Q 2018
- New Hydrocarbons law intended to promote upstream investment currently being discussed by Congress
- Public participation regulations have been released for comments
- New regulations regarding remediation of environmental liabilities have been released for comments
- Regulations for enhancing the massification of natural gas connections are being prepared
- Bid for the distribution of natural gas in 7 regions was called on July 2018 and should be awarded 4Q 2018
- In 2Q 2018 the consultant who is making a technical and economical assessment of the best alternative for the transportation of natural gas to the southern regions of Peru was hired



Oil investment evolution



(*) Source: I PERUPETRO December 2017, / Price WTI: EIA, Diciembre 2017.

In 2017:

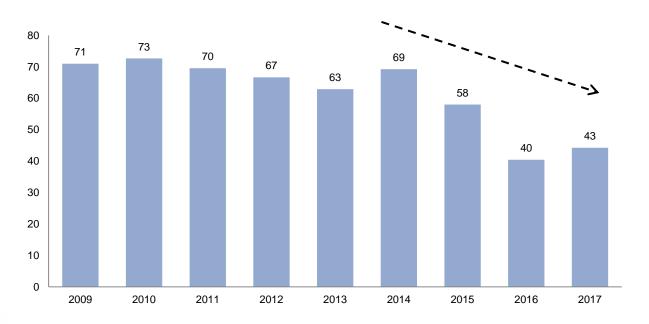
- Investment in exploration fell by 98% compared to 2012 (peak)
- Investment in explotation fell by 65% compared to 2008 (peak)

Source: PERUPETRO. En el caso del precio del petróleo del WTI actualizado hasta agosto 2018.



Oil production evolution

(Thousands of barrels per day)



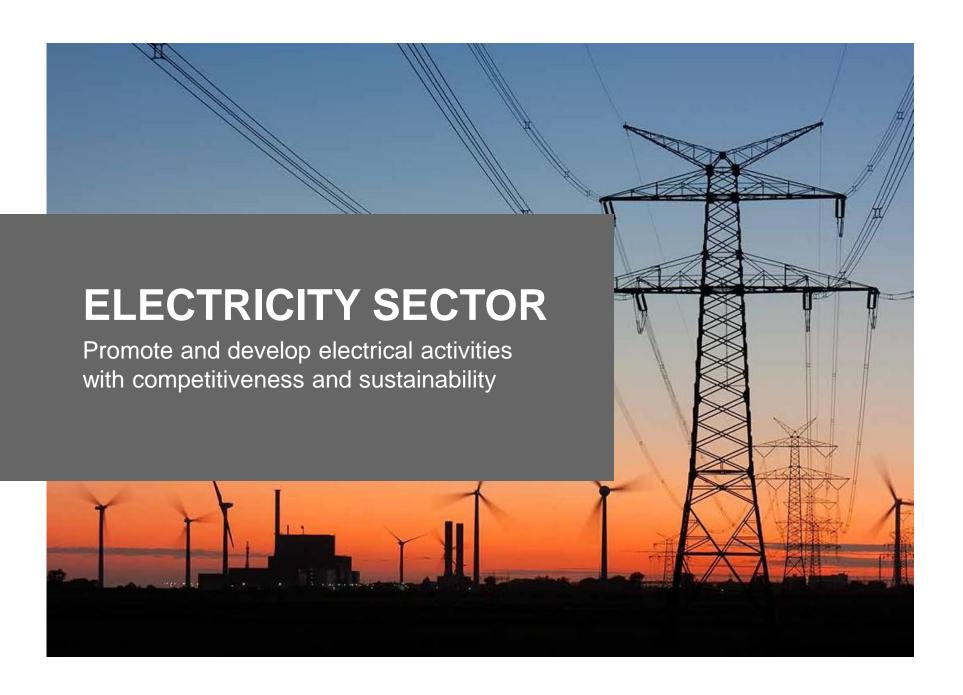
Source: PERUPETRO.



Proposal for a new Hydrocarbons Law

Goals

- Increase investment in exploration and production activities (US\$5,000 millions expected by 2025)
- Increase oil and gas production and reserves (100,000 BPD expected by 2025)
- Promote exploration activities in nonexplored and underexplored areas
- 20-year extension of Oil & Gas contracts subject to new investment commitments and compliance of environmental regulations
- Transparency (anticorruption clause included in Oil & Gas contracts)
- Oil & Gas contracts may be terminated in the event of a breach of environmental obligations that cause serious damage to human health or to the environment
- PeruPetro's new functions (in addition to being renamed as Agencia Peruana de Hidrocarburos – the Peruvian Hydrocarbons Agency)





Advances in electricity sector

- Modernization and ordering of the regulatory framework for electricity generation, prices and renewable energies
- Promotion of electric and hybrid vehicles to contribute to the care of the environment, avoiding the emission of greenhouse gases
- Regional electricity interconnection with neighboring countries (Ecuador, Chile and Bolivia)
- World Sun Expo and Meet Sun-World (International Solar Alliance - ISA) – global leader in solar energy – will be held in Lima (June 2019*)



Rural Electrification Projects

"Achieve universal access to electricity, clean water, internet and telephony"

Benefit more than 420,000* homes (covering 18.5% gap)

Core Actions

1st Massive Program: 65,000 photovoltaic panels installed in 160,000 homes

2nd Massive Program (100 ,000 homes)

- In evaluation for its definition and next tender in II semester 2019.
- Incorporation of new technologies in integral projects.





Transmission Lines Projects

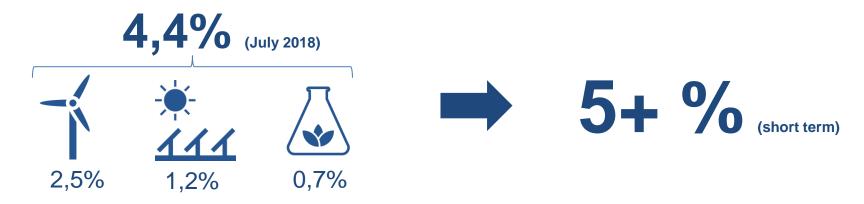
PROJECTS IN CHARGE OF PROINVERSION	Investment (US\$ MM)
 Transmission Plan Nueva Planicie Substation 500/220 kV SVC Planicie Repowering T.L. Carabayllo – Chimbote – Trujillo 500 kV SVC Trujillo Carhuaquero Substation 220 kV 	24,1 24,8 32,6 31,8 9,5
 220 kV Pariñas - Nueva Tumbes Link, Substation and associated 220 kV Tingo María – Aguaytía Link, Substation, Lines and 	53,5 20,5
8. Nazca Nueva Substation 200 / 60 kV 9. Chincha Nueva Substation 200 / 60 Kv	17,7 20,1
10. 500 kV la Niña – Piura Link, Substation, Lines and associated 11. 500 kV Piura Nueva – Frontera T.L. (Interconnection with Ecuador)	132,1 167,0
Total	533,7





Renewable Energy Projects

Renewable energies as a % of national energy matrix:



- Recently inaugurated renewable energy plants:
 - Wayra Wind Power Plant, 126 MW. May 20, 2018
 - Intipampa Solar Power Plant, 44MW. March 31, 2018
 - Doña Catalina Power plant with biogas, 2,6 MW. August 29, 2018

Thank you

