Ronda Colombia 2012

Orlando Cabrales Segovia President ANH Colombia







Content



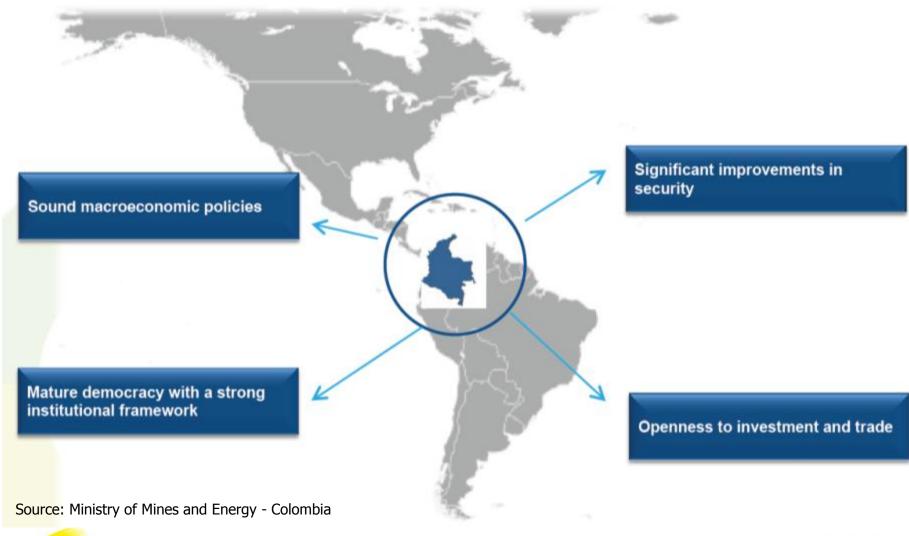
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Colombia has strong fundamentals on which to build prosperity



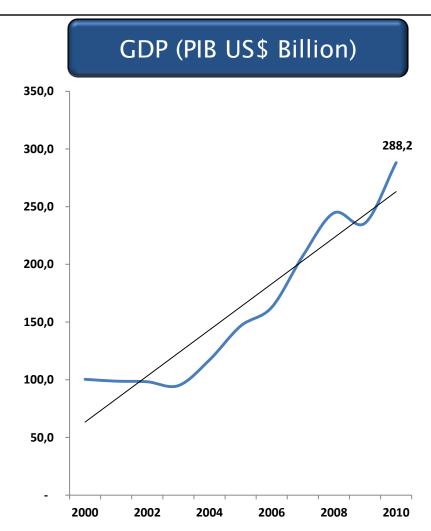






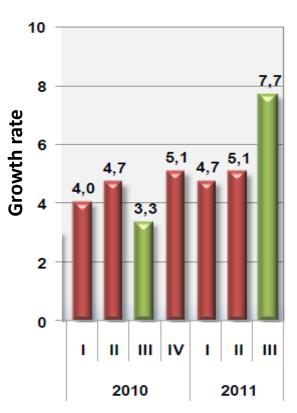
This is shown by its recent economic performance





Source: World Bank





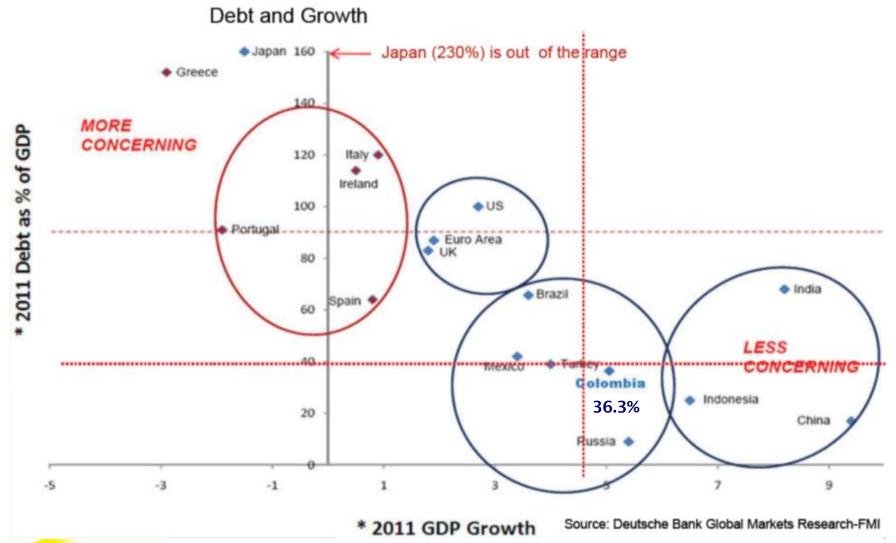
Source: Statistical Department of Colombia - DANE

During the third quarter of 2011, GDP grew 7.7% over the same period of 2010



Debt and Growth







Improving Security

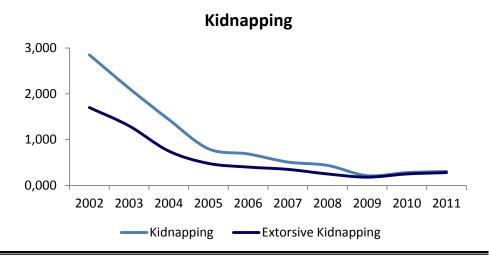


The security strategy is constantly adjusting

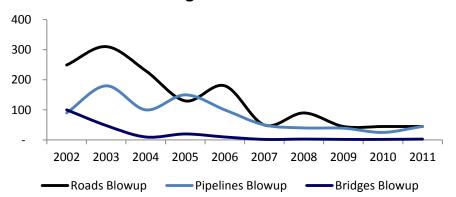
- Include security considerations in energy planning
- Increase troops as needed







Attacks Against Infrastructure



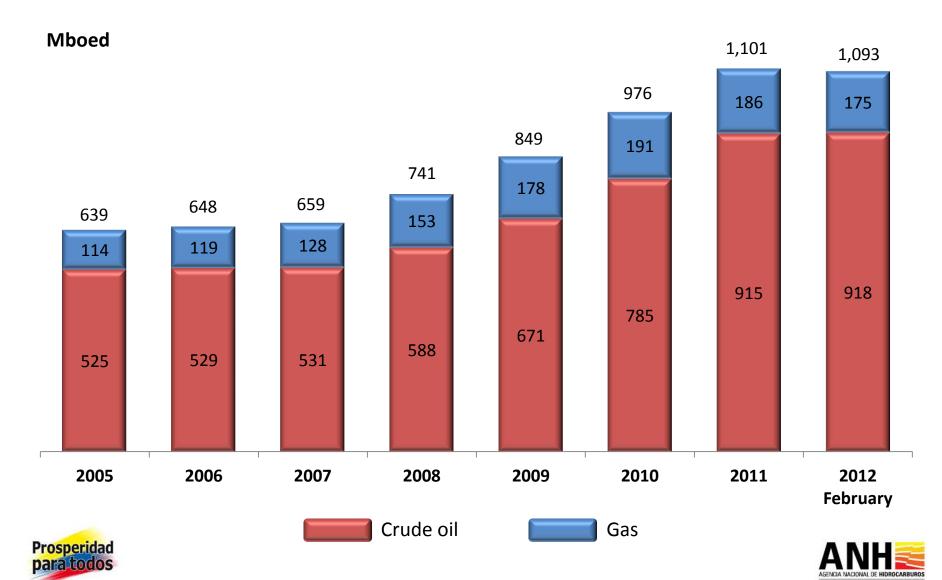
Source: "Fondelibertad", Foundation "País Libre"



Equivalent oil production in Colombia



COLOMBIA



Executed Contracts

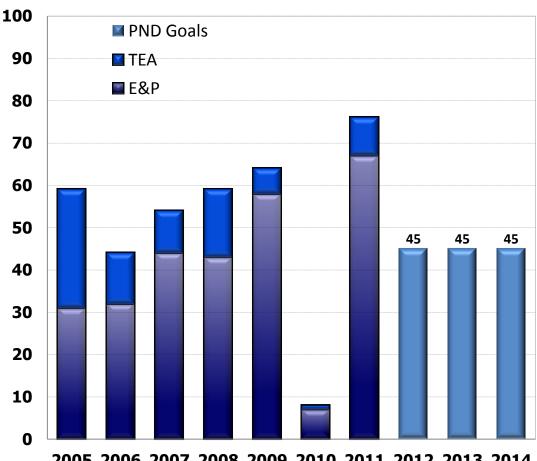


Year	TEA	E&P	Total
2005	28	31	59
2006	12	32	44
2007	10	44	54
2008	16	43	59
2009	6	58	64
2010	1	7	8
2011	9	67	76

TEA: Technical Evaluation Agreement E&P: Exploration and Production contract



No. contracts



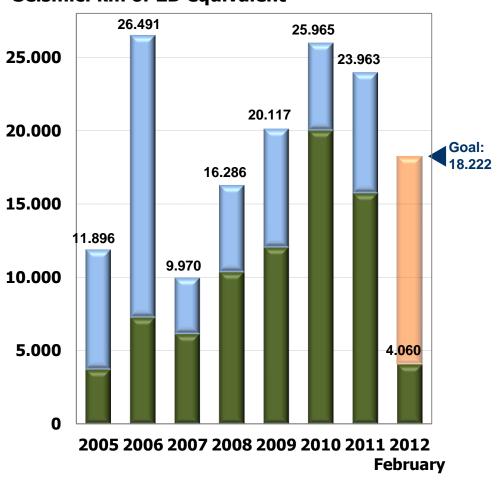
2005 2006 2007 2008 2009 2010 2011 2012 2013 2014



Seismic acquisition

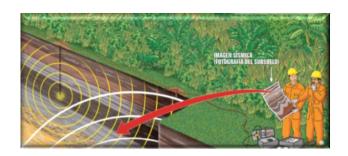


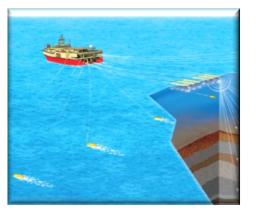
Seismic: km of 2D equivalent



■ Offshore

ANH Goal





Investment in seismic acquisition (2012)

560 USD million





Exploratory wells drilled

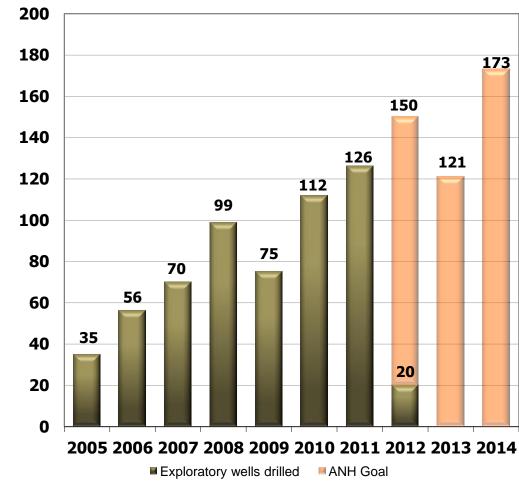




Investment in drilling (2012)

770 USD million





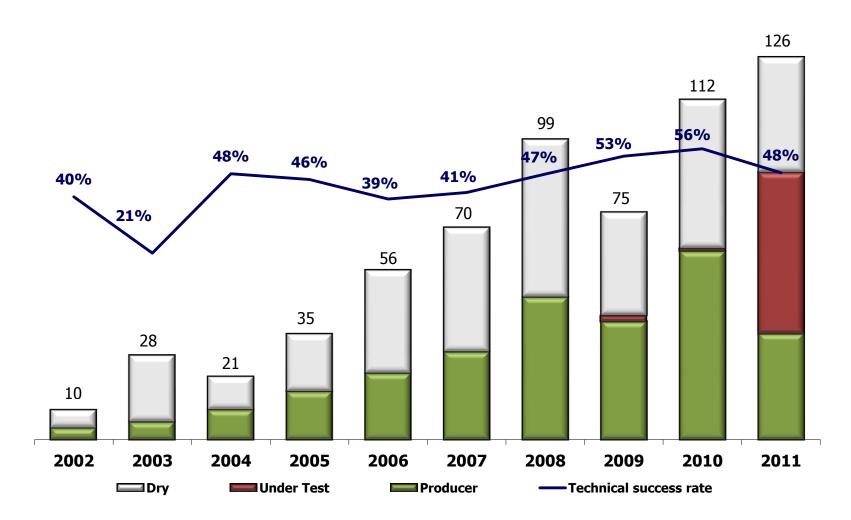




Exploratory wells in Colombia

The success rate



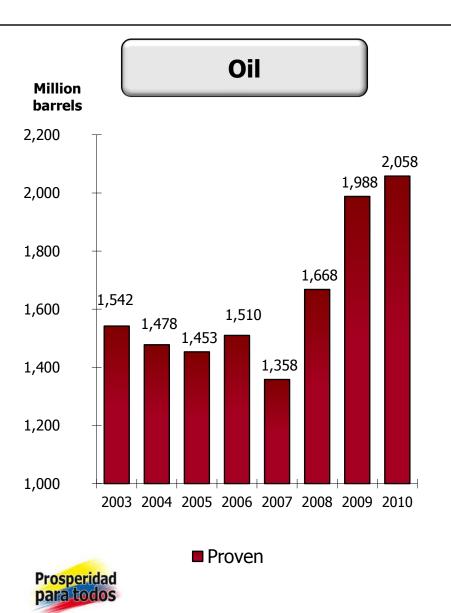


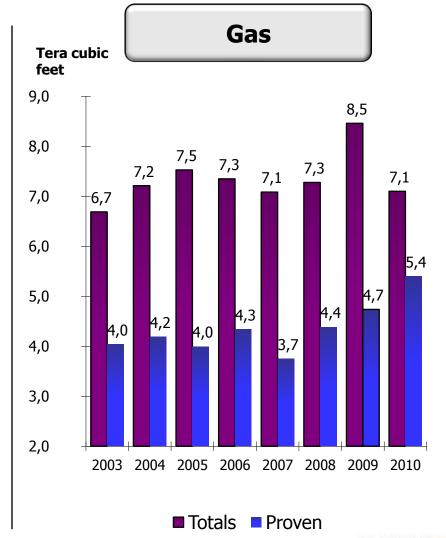




Reserves





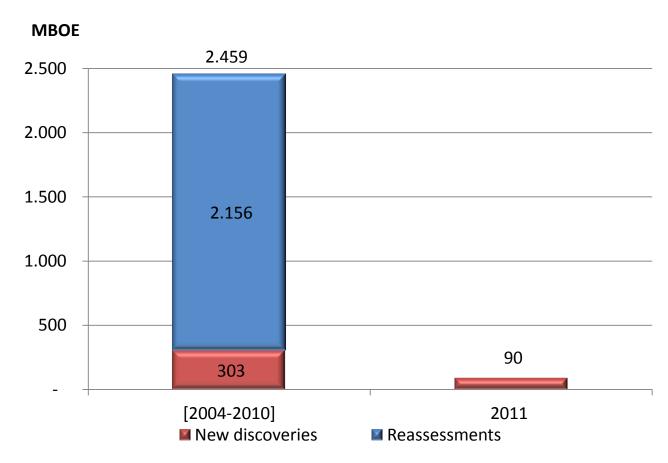




Proved reserves incorporated

Million barrels of oil equivalent





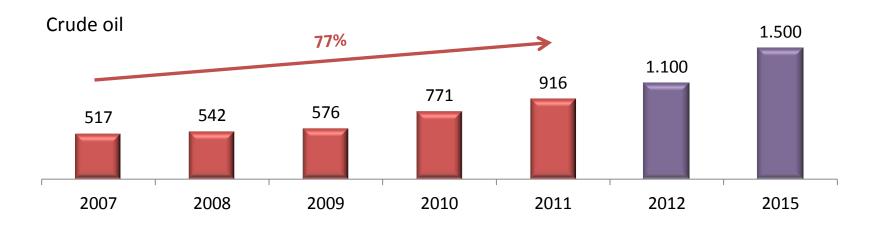
The figure of 2011 is the incorporation expected and correspond to areas of E&P contracts in the same year declared commerciality.

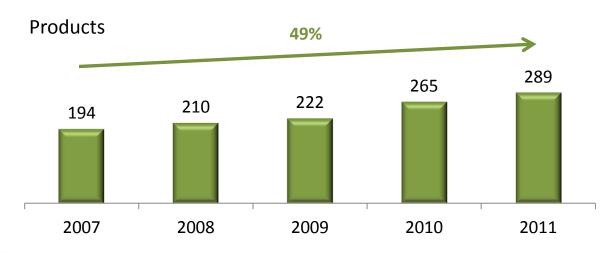




We have increased the volume transported





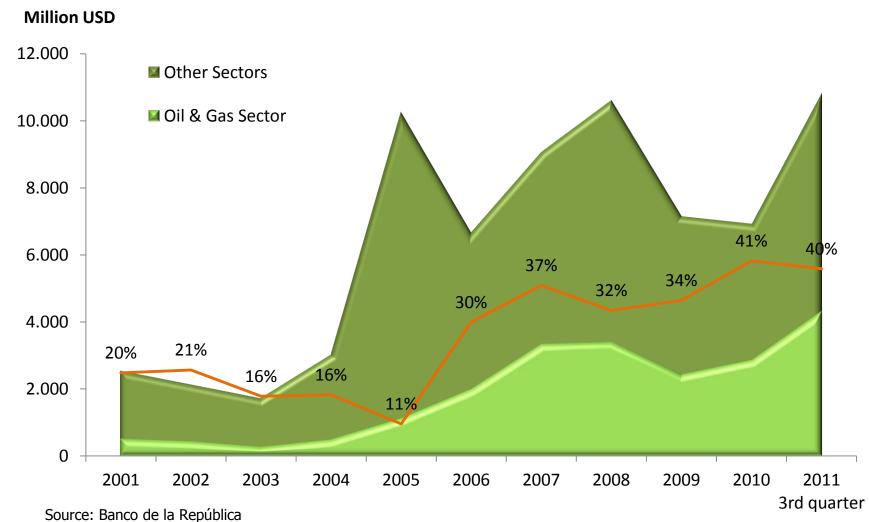






Foreign Direct Investment



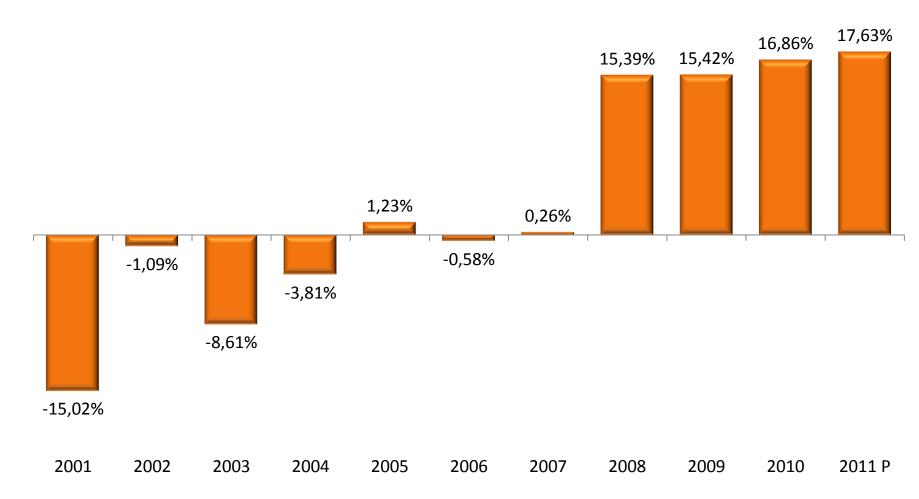


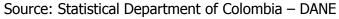




Growth of Oil and Gas sector





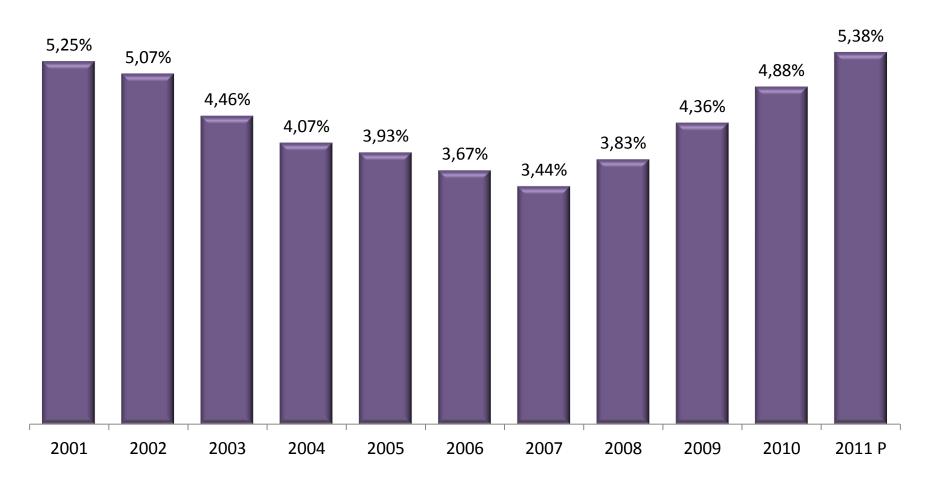






Share of Oil and Gas sector in the national GDP





Source: Statistical Department of Colombia – DANE





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Potential



Basin / Resource (MMbbl /	Con	ventional cru	ude	Gas (Associated and free, Bcf) Heavy Oil (MMbb			obl)		
Tcf)	P ₁₀	P ₅₀	P ₉₀	P ₁₀	P ₅₀	P ₉₀	P ₁₀	P ₅₀	P 90
OFFSHORE	276,413.0	75,815.0	12,570.0	205.8	20.6	1.9			
ONSHORE	153,952.0	42,148.0	7,436.0	289.4	25.6	1.8	388,653.0	71,386.0	14,224.0
TOTAL	430,365.0	117,963.0	20,006.0	495.1	46.3	3.8	388,653.0	71,386.0	14,224.0

Basin / Resource (MMbbl /	Gas	Hydrates ((Tcf)	Coal bed methane (Bcf) ¹ Tar Sand					
Tcf)	P ₁₀	P ₅₀	P ₉₀	P ₁₀	P ₅₀	P 90	P ₁₀	P ₅₀	P 90
OFFSHORE	75.6	19.1	4.9						
ONSHORE				77,510.7	14,612.0	725.4	151,173.8	20,428.8	3,455.2
TOTAL	75.6	19.1	4.9	77,510.7	14,612.0	725.4	151,173.8	20,428.8	3,455.2





Potential



Basin / Resource (MMbbl /		Oil Shale	3		Shale Oil 4			Shale Gas	1
Tcf)	P ₁₀	P ₅₀	P ₉₀	P ₁₀	P ₅₀	P ₉₀	P ₁₀	P ₅₀	P ₉₀
OFFSHORE									
ONSHORE	91,078.0	2,220.1	60.5	151,524.0	19,607.4	3,090.6	2,050.7	265.5	33.8
TOTAL	91,078.0	2,220.1	60.5	151,524.0	19,607.4	3,090.6	2,050.7	265.5	33.8

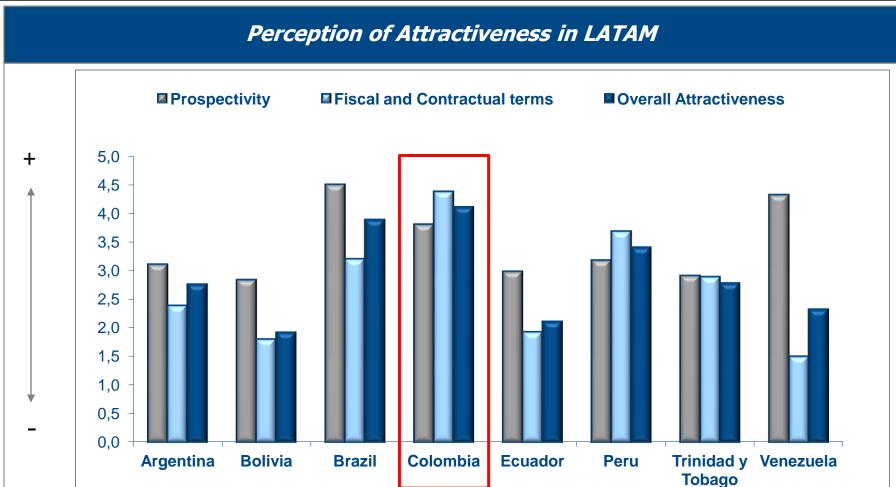
Desir / Deserves / MMILLI / TeO	Gas in Tigh sands ⁵ (Tcf)				
Basin / Resource (MMbbl / Tcf)	P ₁₀	P ₅₀	P ₉₀		
OFFSHORE					
ONSHORE	43.7	5.5	1.0		
TOTAL	43.7	5.5	1.0		





Investors Perception





Source: ADL 2011



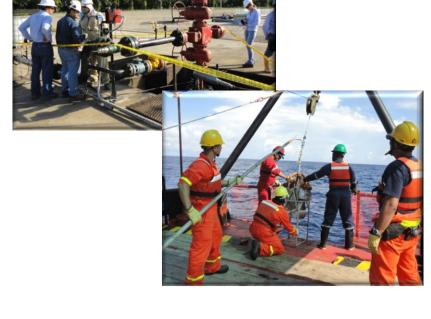


Colombia offers good business opportunities



- A prolific geology
- A good business environment
- A tradition of contractual stability
- A competitive institutional framework
- Competitive fiscal and economic terms
- Competitive and transparent rounds
- Oil and Gas marketing freedom overseas
- Opportunity cost will be covered to natural gas exporters whenever there are interruptions due to internal needs
- A window of opportunity







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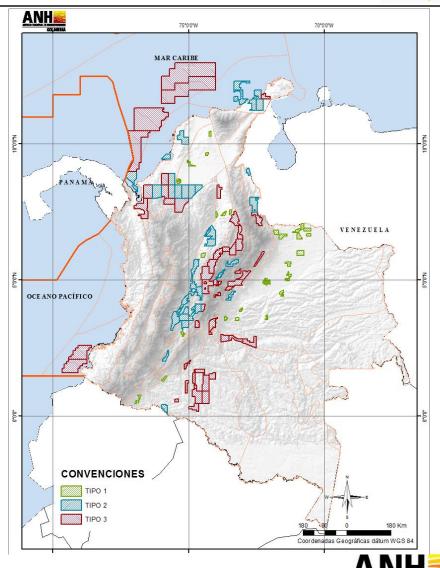
Colombia Round 2012



COLOMBIA

Blocks - Ronda 2012

Basin	Type 1	Type 2	Type 3	Total
VAU AMAZ			2	2
CAT		2		2
COL			4	4
COR		4	19	23
GUA		2	1	3
GUA OFF		3		3
LLA	17	2	2	21
CAG PUT	3	1	9	13
SIN OFF		1		1
SIN SJ		4	4	8
TUM OFF			2	2
URA		1	1	2
VIM	4	4	1	9
VMM	4	4	1	9
VSM	1	6		7
Total	29	34	46	109





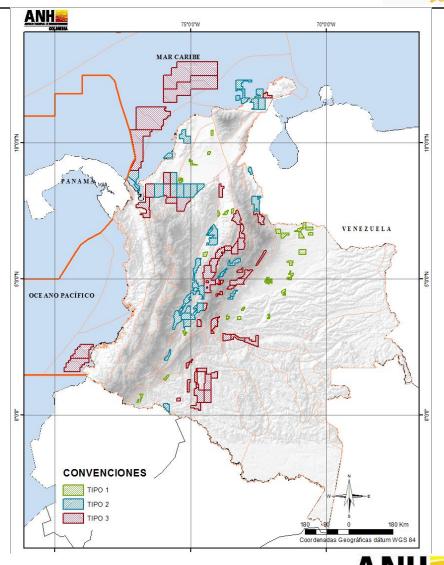
Colombia Round 2012



COLOMBIA

	On shore	Off shore
Type 1	29	
Type 2	29	5
Type 3	40	6
Total	98	11

Туре	Seismic 2D (km)	No. of Wells	Total (ha)
1	914	76	656.520
2	1.644	186	3.591.333
3	438	23	9.229.703
Total	2.996	285	13.477.556





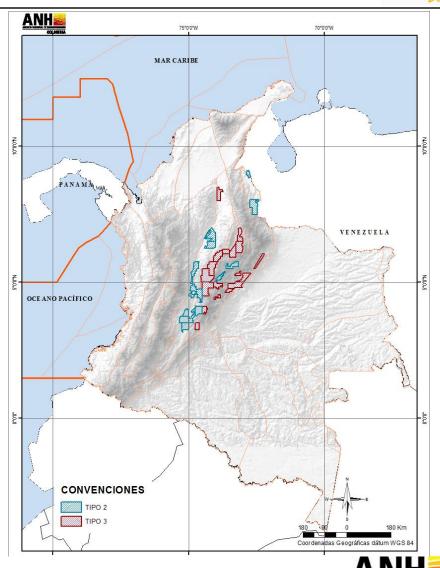
Blocks located in basins with potential for Unconventionals



COLOMBIA

Total of blocks	Type 1	Type 2	Туре 3
31	0	13	18

Basin	Type of block	Number of blocks
CAT	2	2
COR	2	4
	3	17
\/N4N4	2	4
VMM	3	1
VSM	2	3





Economics Incentives for Unconventionals



- 40% discount over royalty rates established for conventionals
- New Po for Oil = 81 USD





Type 1 blocks



COLOMBIA

Blocks located in mature basins- E&P contracts

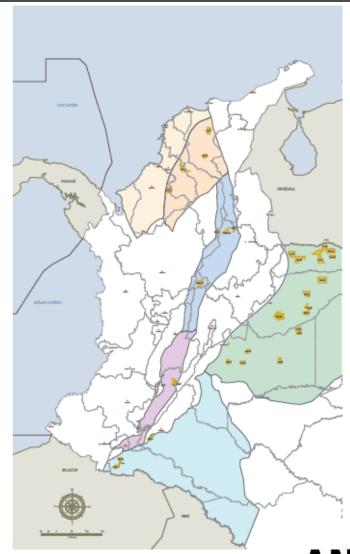
Type 1					
BLOCK	Total Area (ha)	Area Range (ha)			
29	656,520	7,600 – 57,300			

Seismic lines	Wells
Seismic 2D (km)	Number of wells
914	76

Basins

- Lower Magdalena Valley
- Middle Magdalena Valley
- Upper Magdalena Valley
- Caguán-Putumayo
- Llanos





Type 2 blocks



COLOMBIA

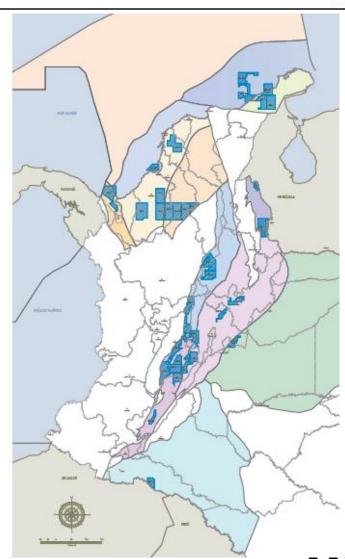
Blocks with new prospectivity - E&P contracts

Type 2		
BLOCKS	Total Area (Has)	Area Range (Has)
34	3,591,333	22,700 – 195,400

Seismic Lines	Wells
Seismic 2D (km)	Number of wells
1,644	186

Basins		
Guajira	Middle Magdalena Valley	
Guajira Offshore	 Upper Magdalena Valley 	
Sinú Offshore	 Caguán-Putumayo 	
• Uraba	 Llanos 	
 Sinú-San Jacinto 	 Cordillera 	
 Lower Magdalena Valley 	Catatumbo	





Type 3 blocks



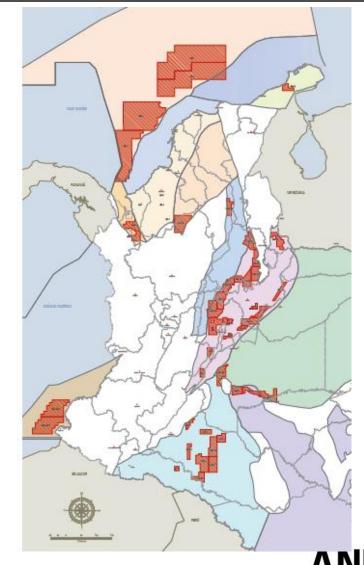
COLOMBIA

Exploration blocks in frontier areas - Technical Evaluation Agreements (TEA)

Type 3			
BLOCKS	Total Area (ha)	Area Range (ha)	
46	9,229,703	18,600 – 1,427,500	

Seismic Lines	Wells
Seismic 2D (km)	Number of wells
438	23

Basins		
 Guajira Guajira Offshore Colombia Uraba Sinú-San Jacinto Lower Magdalena Valley 	Vaupés-AmazonasMiddle Magdalena ValleyCaguán-PutumayoLlanosCordillera	





Data Package



Block type	Cost USD
1	20.000
2 & 3	100.000

- The acquisition of the Data Package gives the company the right to bid if qualified.
- Data room sessions will be available in CeraWeek, Beijing and Bogotá.





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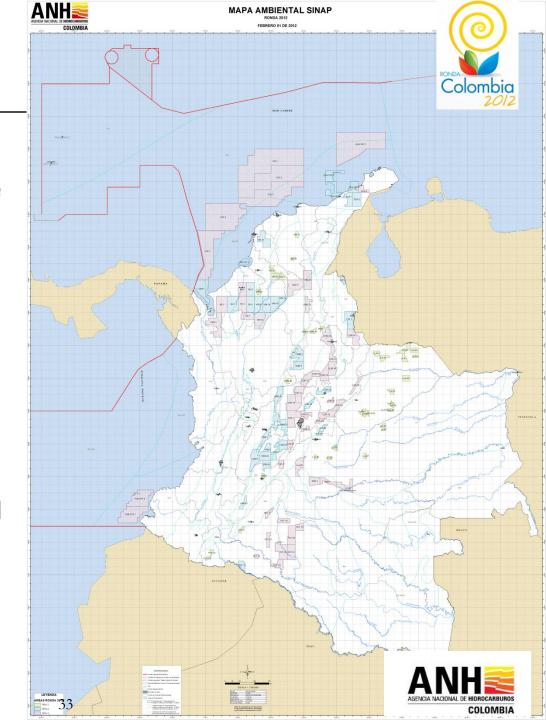




Environmental and Social Aspects

The importance of social and environmental aspects in the Round 2012

- Compliance with environmental and social regulation
- Transparency and clear rules
- Viability of operations
- Sustainable development model





Colombia Round 2012 planning



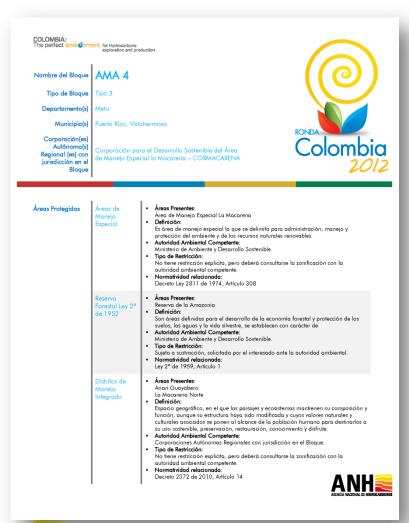
- 1. Update of the information system of the ANH
- 2. Verification of the areas with special social and environmental restrictions
- 3. Interinstitutional cooperation of social, environmental and security authorities:
 - Ministry of Mines and Energy
 - Ministry of Foreign Affairs
 - Ministry of Environment and Sustainable Development
 - Ministry of Interior
 - Ministry of National Security
 - National Planning Department
 - Environmental Licensing Authority
 - Colombian National Natural Parks





Social and Environmental charts of each block





- 1. Name of Block
- 2. Block Type
- 3. Departments, Municipalities
- 4. Environmental authority having jurisdiction in the Block
- 5. Ethnic Communities (Indigenous communities, and minority groups)
- 6. Protected areas (National System of Protected Areas, Special Management Areas, Forest Reserves)
- 7. Strategic Ecosystems (wetlands, corals, High lands, Marine pastures, mangroves)





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 - Legal capacity
 - Financial capacity
 - Technical and Operational capacity
 - Environmental capacity
 - Corporate Social Responsibility CSR
- Proposal Review
- Award Criteria
- Main changes from previous Round
- Timeline





Qualification



- > Operator (in cases of Joint Ventures must have and maintain at least 30% share)
- Other JV Members

Qualification	Others	Operator
Legal	\checkmark	\checkmark
Economic and Financial	\checkmark	\checkmark
Technical and operational		\checkmark
Environmental		\checkmark
CSR		\checkmark





Legal capacity



- Nationals and foreign corporations can participate
 - > Individually, or
 - Different types of Joint Ventures

Requirements:

Corporate purpose

Individual Participants or Operator: Exploration and Production of

hydrocarbons.

JV Members: Related Exploration and Production activities.

Time of incorporation

Operator: Five (5) years **JV Members:** One (1) year





Legal capacity



- Provide accurate and truthful information and authorize the **ANH**, at any time, to verify all information submitted for participating in the Bid Round.
- Execute undertakings on anticorruption and anti money laundering, as well as against terrorist financing and other criminal activities.

In any case, the ANH reserves the right to check the background of corporations and their partners, except those listed on stock exchanges, in databases, such as "World Check" and "World Compliance".





Economic and Financial Capacity



Average equity over the last three (3) years, per block:

US\$

• **Type 1:** 6.000.000

• **Type 2:** 20.000.000 (Except off shore and unconventional)

• **Type 3**, off shore and for unconventional

200.000.000

According to Financial statements duly audited with its notes, for Colombian Corporations; or Financial statements, with Certificates, under the "International Financial Reporting Standards –IFRSs" or "Generally Accepted Accounting Principles-US GAAP", Duly audited, for foreign legal corporations.





Economic and Financial Capacity



Corporations included in "The Energy Intelligence Top 100: Ranking the World's Top Oil Companies" by "Petroleum Intelligence Weekly" as Upstream, and those able to endorse a risk qualification equal or higher than those mentioned below will qualify automatically, although they need to submit their financial information in any case.

Risk Qualifying Agency	Grade	
Standard & Poor's	BBB	
Moody's	Baa	
Fitch Ratings (1)	BBB	
(1) Rating equivalent to AAA level Colombia	in the case of	





Technical and operational capacity



Type of Área	Reserves Boe	Production* Boed
1 *	2.000.000	1.000
2 (Except offshore and unconventional)	5.000.000	5.000
3 (offshore and unconventional)	50.000.000	20.000

The information about reserves should be endorsed under the 'System Management of Petroleum Resources', SPE-PRMS by an independent auditor, or by the competent authority in each country.





^{*}At least two (2) wells drilled during the last three (3) years.

Technical and operational capacity



Corporations included in "The Energy Intelligence Top 100: Ranking the World's Top Oil Companies" in the upstream by "Petroleum Intelligence Weekly", will qualify automatically.





Environmental capacity



Documents to endorse an environmental management system and the measures taken by the participant to mitigate the impact on natural resources and the environment, based on:

- ➤ ISO 14001 or an equivalent certification
- ➤ Document that endorses the environmental management **system of the participant, implemented or in execution** signed by the Legal representative and an independent auditor.

In any case, the participant or the operator, of a JV has the obligation to obtain an environmental certification during the first three (3) years of the contract execution.





Capacity on Social Responsibility



Documents endorsing participants' policies on **Social Responsibility** based on:

- ➤ ISO 26000 or an equivalent certification
- ➤ A document that endorses the implementation of programs on **Social Responsibility** signed by the legal representative and an independent auditor.





Award criteria



Aron typo	Criteria		
Area type	Primary	Secondary (*)	
1 & 2 Offshore included	Participation in production (X%)	Additional investment in exploration phase I	
3 and Unconventionals	Additional investment in exploration phase I	Participation in production (X%)	

(*) In case of a tie S1, and in any case, it is mandatory





Main changes from previous Colombia Round 2010



- ➤ The possibility of qualification as "Restricted Operator" is no longer allowed
- Participants can bid for adjacent blocks
- ➤ Higher requirements are set for technical and operational capacity in the case of Type 1 blocks
- Offshore areas and unconventionals require participants with financial, technical and operational requirements established for type 3 blocks





Colombia Round 2012

Schedule



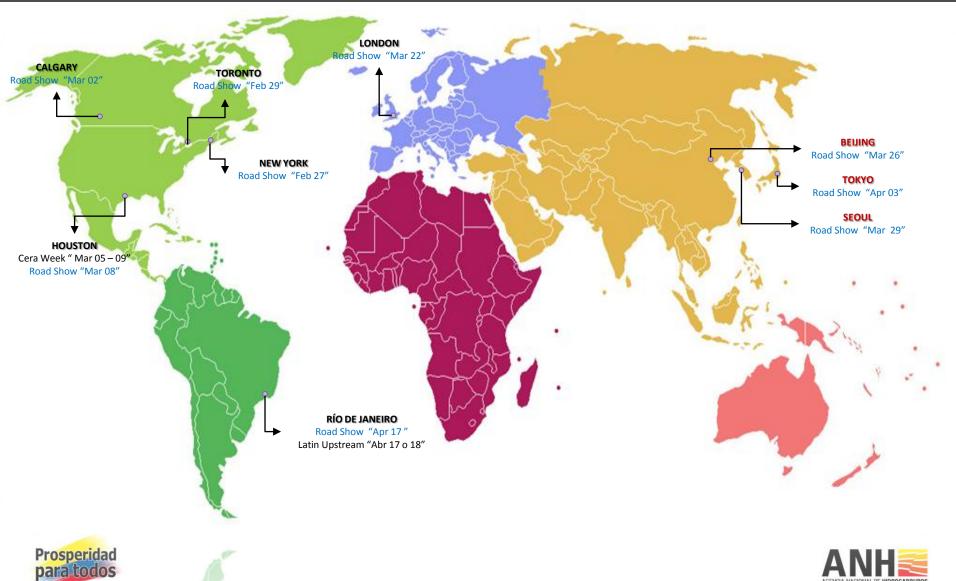
Activities	Date
Pre – Kick off (Bogotá)	22-11-2011
Kick off (Bogotá)	21-02-2012
Initial technical packages sale	22-02-2012
Publication of "TOR" Project	01-03-2012
	29-02-2012 Toronto
	01 and 02-03-2012 Calgary ("Data Room")
	08-03-2012 - Houston ("Data Room")
	22 and 23-03-2012; London
"Road Shows"	26 and 27-03-2012 - Beijing ("Data Room")
KUdu Shows	29 and 30-03-2012 - Seoul
	03 and 04-04-2012 - Tokyo
	17-04-2012 - Río de Janeiro
	20-03 to 30-06-2012
	(" <i>Data Room")</i> Bogotá
Opening and publication of definitive TOR's and contracts	23-04-2012
Submission of documents for qualification processes	16-06 until 16-07-2012
Study documents and publishing preliminary list	16-07 until 16-08-2012
Comments on the preliminary Bidders List	17-08 until 24-08-2012
Publication of definitive Bidders list	14-09-2012
Submission of Proposals, Bid Guarantees and Public Opening Act	17-10-2012
Preliminary List of Proposals	01-11-2012
Comments to the Preliminary List	02-11 until 13-11-2012
Awarding of areas	26-11-2012
Signing of contracts	November and December de 2012





Road Show





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Contractual aspects



Contents:

- 1. E&P Contract
- 2. TEA Contract
- 3. E&P and TEA contracts common aspects





E&P contract (I)



Object

The exclusive right to:

- Explore the subsoil under the contracted area
- Produce the hydrocarbons property of the state discovered under such area
- Share of the production of the hydrocarbons within the contracted area The contractor shall:
- Perform all activities at its own cost and risk
- Obtain all required permits and licenses
- Indemnify ANH in regards to any claim related to contractors work
- Use best oil industry practices
- Procure national good and services when possible, under equal conditions





Contract duration and stages



Duration:

 ✓ Exploration: 6 years conventional / 8 years unconventional Production: 24 years

Exploration period

- ✓ Conventional Hydrocarbons: Two phases of 3 years each
- ✓ Unconventional hydrocarbons: Two phases of 3 years each and one of 2 years.
- ✓ First phase is mandatory.





Unconventionals



 Exploration: Cartography, geochemistry, seismic and stratigraphic well (3 years).

 Confirmation program: 2 phases of exploratory drilling and hydraulic fracturing (5 years)

 Relinquishment of areas after the 8th year of exploration, excluding those areas under development and evaluation





Notice of discovery and evaluation program



- Presence of hydrocarbons shall be reported within 4 months of discovery
- Submission of the evaluation plan will not be mandatory if commerciality is declared with reservoir delimitation New!
- Maximum duration of evaluation is one (1) year, with possible extensions:
 - ✓ 1 additional year when exploratory wells are included
 - ✓ 2 years in case of natural gas, heavy crude discoveries, or unconventional developments





Production period



- 24 years and the possibility of a 10 year extension
- Declaration of commerciality must include technical support with reservoir delimitation New!





Economic rights



Category	Form	Value
Royalties	Share of production	8% - 25%
Use of subsoil (administration)	Surface fee/ charge per boe	USD1,66 to 4,95 per hectare Offshore: USD 0,82 Production: - US\$ 0,1255/bl
High prices	Share of the price upside	30% - 50% of WTI over trigger level - after first 5MMBIs are produced
Technology transfer	Percent of Use of Subsoil payment	10% (Maximum USD100.000)

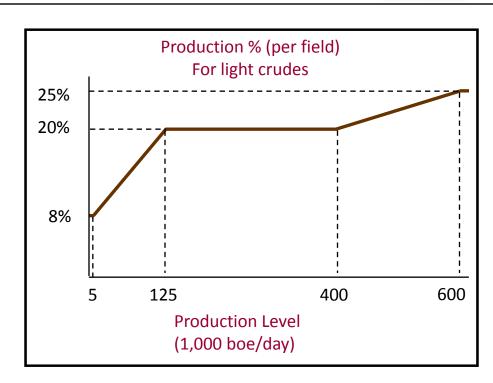




Royalties



- Paid monthly
- Applied to gross average volume of production by field
- Paid in cash or kind at ANH's choice



Discount relative to light crude rates

Gas	- 20%
Heavy Crude < 15° API	- 25%
Gas offshore (> 1000 ft)	- 40%
Unconventionals	- 40%





High price participation (oil)



A share of production (Q) equivalent to the established percent (S) of the part of the average monthly reference WTI price (P) that exceeds a base price (P_o), divided by the average monthly reference price (P) – applies after cumulative production reaches 5MMBls

$$Q = \frac{P - P_o}{P} \times S$$

Where:

P = WTI monthly average price (in USD)

 P_o = Base price (in USD) [chart 1]

S = established percentage [chart 2]

Chart 2

Р	S
Po≤ P< 2Po	30 %
2Po ≤ P < 3Po	35 %
3Po ≤ P < 4 Po	40 %
4Po ≤ P < 5Po	45 %
5Po ≤ P	50 %

Chart 1

API Gravity	Po (2012 USD\$/bl)
Under 10°	N/A
>10° and ≤15°	50.18
>15° and ≤ 22°	35.14
>22° and ≤ 29°	33.87
>29°	32.61
Discoveries at more than 300m of water depth	40.15
Unconventional Hydrocarbons	81





High price participation (gas)



- Applies after the 5th year of production of gas for export, when the realized price exceeds the base price (P_o).
- A share in production (Q) is equivalent to:

$$Q = \frac{P - P_o}{P} \times S$$

Where:

 \checkmark P = Realized price, and

 \checkmark P_o = Reference base price (see table)

 \checkmark S = Participation percentage (same as oil)

Distance to destination port (km)	Po 2012 US\$/MMBTU
0 to 500	\$7.54
>500 to 1000	\$8.79
>1000 or LNG plant	\$10.04





Confidentiality of information



- All technical information must be submitted to the ANH as it is produced (includes data interpretation and reports)
- All information subject to confidentiality agreements:

✓ Data : 5 years

✓ Interpretation and analysis : 20 years





Contractual Aspects



- E&P Contract
- TEA Contract
- Common aspects of E&P and TEA contracts





TEA Contract

Technical Evaluation Agreement



Object:

To conduct technical evaluation activities in an block with the possibility of converting into an E&P contract

- Duration: thirty six (36) months
- Economic terms:
 - ✓ Surface fee





TEA Contract

Technical Evaluation Agreement



Appraiser's rights:

- An exclusive extensive area to carry out technical evaluation activities
- Selection of part of the block to be converted into an E&P contract
- Exclusivity for conversion until the end of term





TEA Contract

Technical Evaluation Agreement



Confidentiality:

- Applies during the term of the TEA or,
- Until the TEA holder proposes an E&P





Contractual aspects



- E&P Contract
- TEA Contract
- Common aspects of E&P and TEA contracts





Common aspects



- The contractual model will be adapted according to the development of conventional or unconventional oilfields.
- Area relinquishment:

Within the first eighteen months of the contract, contractor may relinquish up to 50% of the contracted area.

- Obligation to:
 - Follow community consultation procedures when required
 - Obtain environmental license when required
 - Right to farm out
- Right to invoke arbitration for dispute resolution





Guarantees



Stand-by letter of credit for:

- For 50% of minimum exploratory program
- 100% of additional investment
 - √ 50% upon signature of the contract
 - √ 50% at end of the first half of a phase
- Additional investment guarantee may be reduced as the value of activities are credited after their completion





Contract relinquishment



Opportunity: within the first half of the first phase

Condition: the contractor shall transfer to the ANH 50% of the value of all non-fulfilled activities of the Minimum Exploratory Program and 100% of the balance of additional investment not used in exploration.





Main modifications



Change of control

- A definition about controllers and beneficial owner and those who are to be considered as such.
- Obligation to inform any change of control or change of Operator and to obtain previous authorization from ANH







Thank you!

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