

Emgesa & Codensa

Results FY 2014

Lucio Rubio Díaz

Bogotá, March 5 of 2015



Agenda



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Highlights 2014

2

Operating Results 2014

3

Financial Results 2014

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Our Challenges 2015





Emgesa:

Growth



Growing in a sustained and responsible way





Emgesa:

Growth



Important Advance in our proyects and new business

Emgesa completed the repowering of SALACO chain in Dec. 2014 adding about 144,6 MW to the company's installed capacity and reaching 3.059 MW (+4,6% vs. 2013).

Implementation of SCADA system for remote operation





El Quimbo in his final stretch. 85% advance in physical execution as of Dec. 31 of 2014.

Estimated start-up: 2S 2015

Beginning of operations of Emgesa as a **gas supplier**. Total sales for 4,2 millions m³



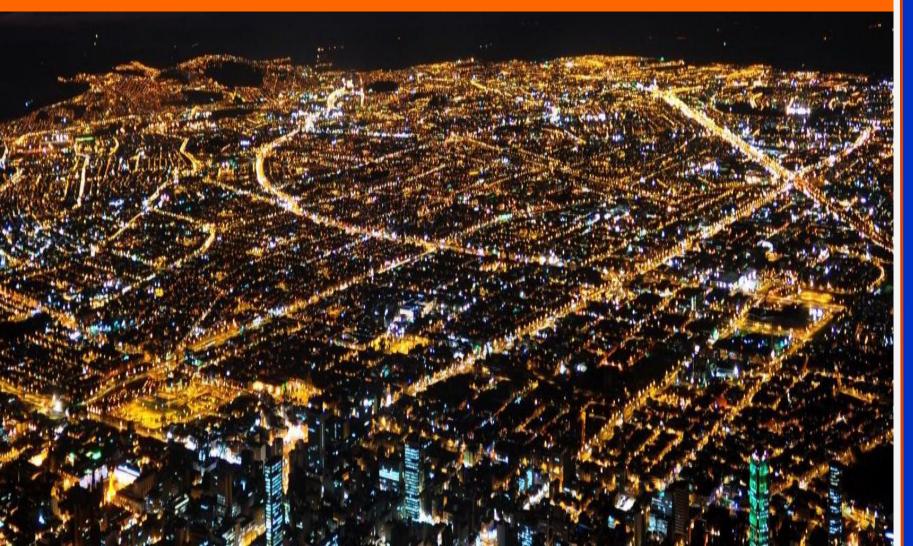


Codensa:

Growth



Growing to support the demand and development





Codensa:

Growth



Expansion projects at the forefront of technology.

Advances in the execution of strategic projects for Colombia's energy supply:

- SE Nueva Esperanza:
- Environmental License
 +Archaeological rescue
- Dec. 2016
- SE Bacatá:
- Finalization of electromechanical assembly
- 1H 2015
- North substation: August 2016





Modernization of public lighting in Bogotá: Installation of 3.700 LED bulbs, from the 33.000 total estimated for 2016, with priority in insecure zones and intersections.

Electric mobility:

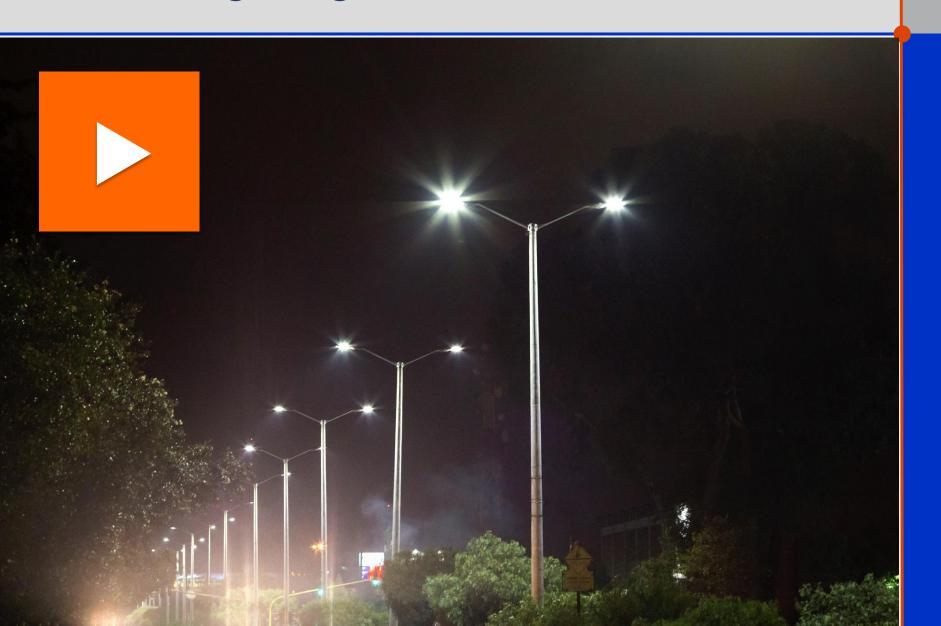
Urban mass transit
APP Bogotá Electrika
Presentation (nov. 2014).

Urban individual transport
Ebike to work and electric
taxis.

Advances: 2 MM Kms - 502 Ton of Co2 -6 Kg of avoided particles- 621 MW distributed.



Public Lighting Modernization Video





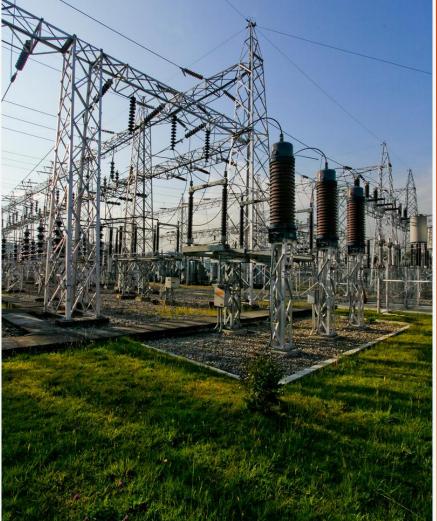
Emgesa:

Competitiveness



Our target: The operational excellence.







Emgesa:

Competitiveness



Better operational results and insurance of future revenue



Positive hydrological conditions with higher than average rain levels in Emgesa's reservoirs, increasing its net generation within the system:

Betania: 103,3% Guavio: 108,1% Cuenca del Rio Bogotá: 109,7%. Historical record of generation in Pagua chain (4.340 GWh) and in Betania (2.286 GWh).

+6.9% in total generation vs. 2013.

Availability index of plants greater than **90%**.





We ensure hydro resources for generation: renovation of Guavio's central water concession (1.200 MW) for 15 years more.



Codensa:

Competitiveness



We are a company in evolution and in continue advance.

Energy Tariff Revision:

- Revision on commercialization component.
 (Res. CREG 180 & 191 of 2014)
- Revision on distribution component.
 (Res. CREG 079 & 112 of 2014)
- Revision on the methodology of distribution activity.

(Res. CREG 179 of 2014)

Telecontrol Project to improve quality of service: 4% (145) of all equipment were installed in 2014.



Customer service optimization:

- NEOL project: renewal business portal.
 - •New app. Mobile Codensa.
- •Real-time tracking applications(Esel and Control tower).



Positive results in the ISCAL survey for Codensa: 83,2% 8a position between 37 power distributors companies of Central and South America.

Innovation:

Accenture award for **Effect Carson Project**. 10 patents in 8 countries for 3 technologies.





Sustainability



Creating value for stakeholders

















Sustainability



Creating long-term value through sustainable initiatives



We contribute to education: Educational Programs with communities **More than 13.500** beneficiaries



Renace Forest: Protection of 690 hectares of alto andino forest and voluntary plantation of 17500 native trees.





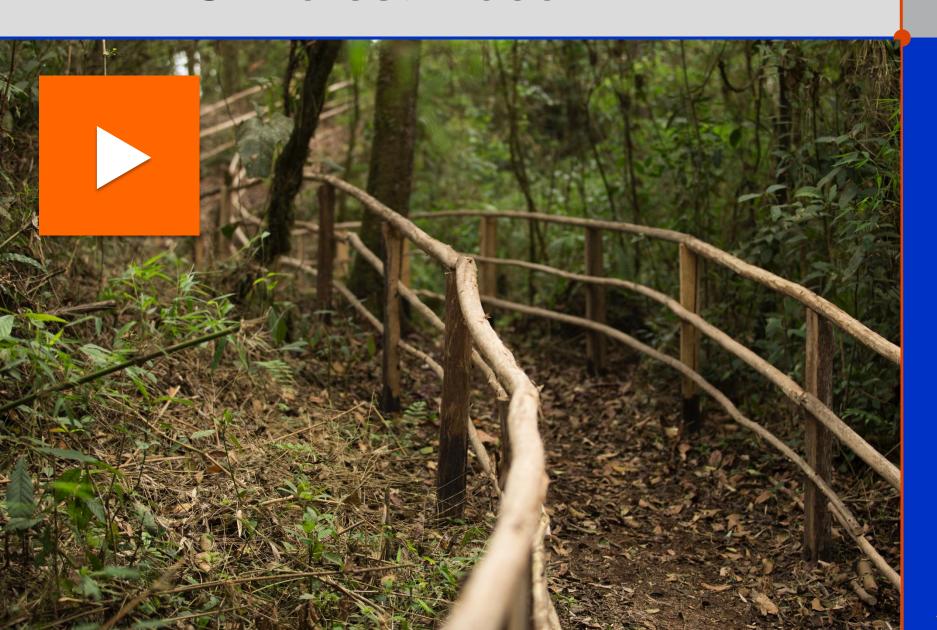


New benefits of quality of life for employees:

- Day of volunteering and balance
- First day of school
- Corporate discount card
- Loans for purchase of appliances and holidays

sustainability and innovation in renewable energies.

RENACE forest Video



Security

We act safely, We protect the life of our employes.

Country frequency index



Achievements in security:

- Security scale
- Safety score card
- Unification of image and fireproof clothing
- Heights training
- One Safety alliance
- Security Briefing





Emgesa & Codensa:

Financial Highlights

Successful financial results

Confidence in our financial management:
Ratification of the local AAA by Fitch Ratings for Emgesa and Codensa.

International Rating BBB (stable) by Fitch Ratings and Standard & Poors to Emgesa.



Successful placements of local bonds Emgesa (MM \$ 590,000 in May) and Codensa (MM \$ 185,000 in September)

Bid to cover 2X, ensuring competitive rates and resources for investment.



Dividends paid to shareholders for 2014: \$1.2 Trillons. **Committed to the Financial Community:**

Energy Explorers Program: Visit to El Quimbo and Betania in October with a group of local investors and financial analysts.

Ratification of IR Recognition.





January 2014 to the Superintendent of Public Services.

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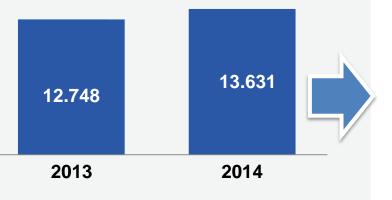


Results:

Emgesa's Generation

Year of contrasts in generation and in spot prices

Emgesa's Generation (GWh)



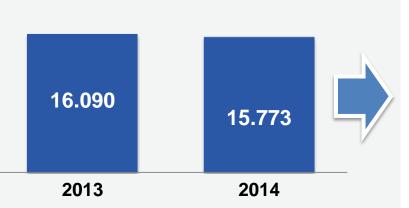
+7% in 2014

21% market share

91% availability of plants

\$225/kWh Average pot price

Energy Sales(GWh)



\$144/kWh Emgesa's average sales price

70% of sales through contracts

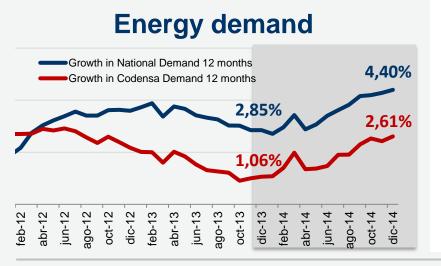
+6,2% in sales in spot market



Results:

Distribution Business-Codensa

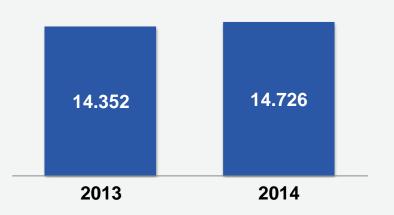
Recovery of demand and growth in commercialized energy



23% of national demand

85.456 new clients in 2014

Energy Commercialization (GWh)



+2,6% retailed electricity

7,19% losses index

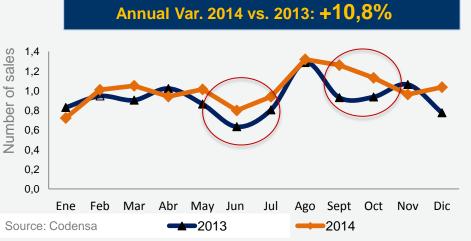


Codensa's Quality Indicators

Challenging conditions to maintain quality of service

International Quality of Service Indicators

SAIFI* SAIDI**





Index results are considered manageable incidents by the company excluding the larger forces and external events. Data just includes medium tension information.

Deterioration of Index SAIDI y SAIFI.

May 2014: Incident on Usme SE in May 2014 (85.350 clients was affected in + 30 minutes).

August – September 2014: Affectation of rural circuits for wind season.

October 2014: Event Tunal SE.

December 2014: Extension rainy season

^{*}SAIDI: Average Interruption Duration Index

^{**}SAIFI: Average Interruption Frequency Index

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Results Consolidados Colombia

Leading contributor in LATAM with 36% of the region's EBITDA

In 2014 Colombia was the first EBITDA contributor in LATAM with 36% of region's EBITDA.

USD \$2.284 MM



LATAM distribution EBITDA USD \$1.801 MM





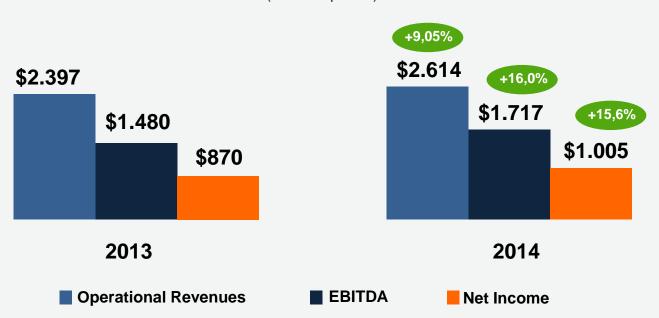
Results:

Financial Results- Emgesa

Strong financial results given extraordinary hydrological conditions

Financial Results and Margins

(Billions pesos)



^{*}EBITDA is calculated by adding depreciation and amortization (included in cost of sales and administrative expenses) to operating income (which is estimated by subtracting the cost of sales and administrative expenses of operating revenues).

Important growth on financial results respect with FY2013

+ 65,7% in EBITDA Margin

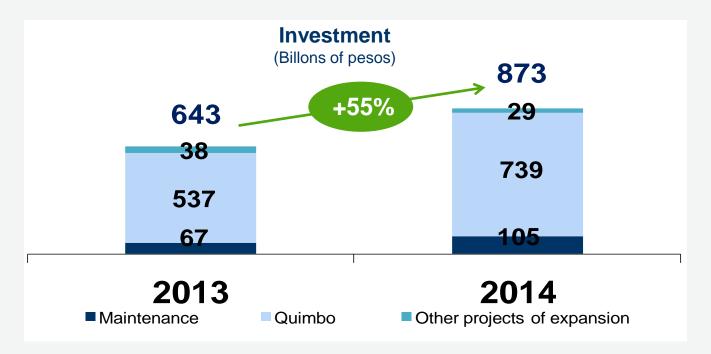
+ 38,5% in Net Margin



Results:

Financial Results- Emgesa

Important implementation of investments in expansion



\$872.495 MMCOP in CAPEX in 2014
85% in Quimbo
12% Preventive maintenance
3% Other expansion projects (Mainly SALACO)

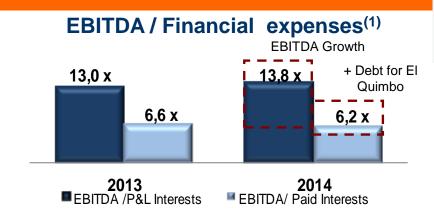


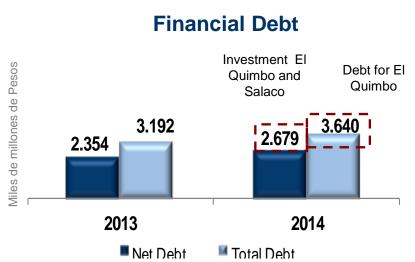
Ratios:

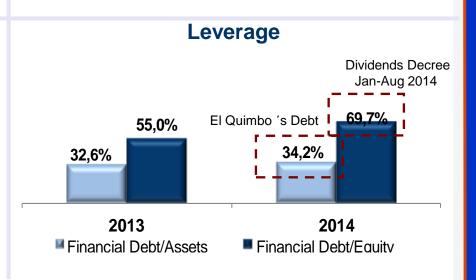
Financial Results - Emgesa

Credit strength ratified in (AAA) local and (BBB) international.

Total Debt/ EBITDA EBITDA growth 2,2 x 2,1 x 2013







⁽¹⁾ Financial expenses associated with the financing of the Quimbo is being activated during the construction period of the project and it would only be reflected in the P & G company once Quimbo stars to operate. Therefore, there would be two types of calculations for the indicator EBITDA / Interest Expenses based on the financial expense of P & G and Cash Flow of Emgesa presented.



Results:

Financial Results Codensa

Growth in operational revenues and stability in margins



Growth in financial results and EBITDA vs. 2013 34,3% EBITDA Margin 16,3% Net Margin



Results:

Financial Results- Codensa

Investments focused on quality of service and network modernization

Investment

(Billons of Pesos)



\$373.119 BNCOP in investments in 2014:

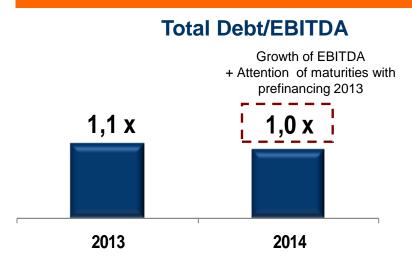
40% quality
28% Demand attention
3% Security
6% Loss control
3% Strategic and regulatory

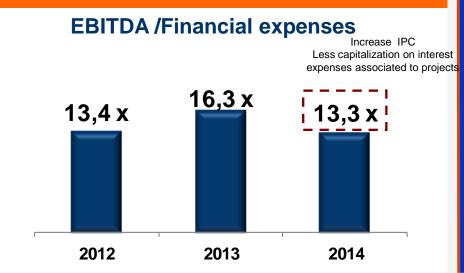


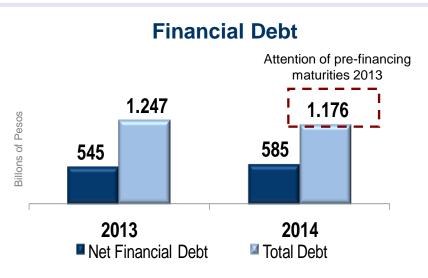
Ratios:

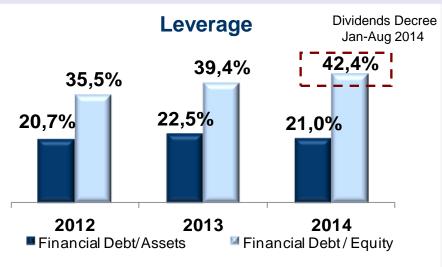
Financial Results - Codensa

Credit quality and conservative risk profile consistent with local AAA









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Our projects and challenges For 2015

Bet for new technologies and growh in the middle of changes





emgesa Advance project Quimbo

Quimbo - final stage

Budget:

USD\$1.093 MM (2010 constant USD)

Acummulated Inv Dic. 2014 = USD\$862 MM (2010 constant USD)

85%

physical execution to dic-2014



- **Alternative routes-Section II**
- Viaduct
- **Reservoir forest**
- Transfer of families to resettlement **Santiago and Palacio**



Damn - Reinforcing steel Parapeto wall



Inlet: Assembly of wicker structure

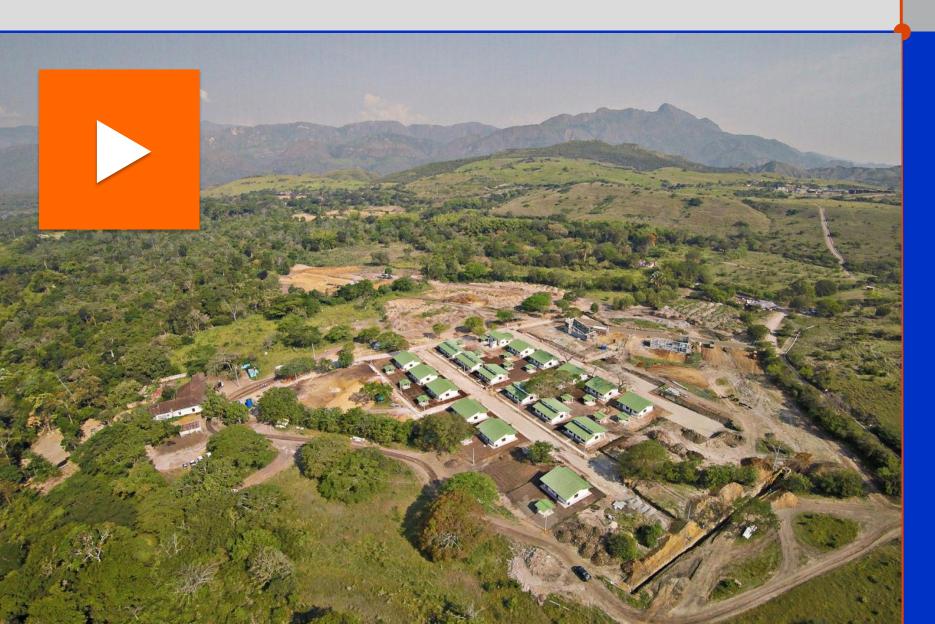


Section IV: Beam - Bridge La Cañada

Challenges Final Straight 2015:

Reservoir Adequacy Completion works of the auxiliary dam Operation start of Balseadero viaduct Reservoir filling

QUIMBO Resettlement Video





Reliability Plan Thermal plants

We optimize the operation of our plants

Emgesa invests in the implementation of projects to optimize the use of the River Bogotá in central Termozipa, ensuring compliance with environmental standards and in the central Cartagena to ensure reliability

Recovery of cooling towers

Return towers to its original design condition .
 Temperature decrease of discharge

Dry ash removal

Decrease in water use by 85% for extraction of ash.

Decreased of ash dumping

Recirculating water of refrigeration

- Autonomy of the Central, generating energy with no affection to the river dynamics.
- Reduction of cooling water discharges.

Decreased use of natural resources

Cartagena Project of reliability

- · Recovery of boilers.
- Modernization of burners and burners management sytem.
- Restructuring of steam turbines.









PSVAs

Products and Services of added Value

Development of new business to increase energy demand

Public lighting system

Efficiency for the city with **33.000** LED lights



Massification of smart metering for 2016-2020



Electric Mobility

Development in individual urban transport: flotas masivas, public charging, sales. **Public Mass transportation:** APP Bogotá Electrika.





Electrointensives

Large portfolio of services. Sales and installation of equipment (stoves, induction heaters)





PSAVs

Distributed Energy

Generation near consumption centers





Project Better quality of service -Codensa

Projects to improve the quality of service

Substations



260.000 Customers benefited

- 1. Change of RCs in SSEE MT-MT
- 2. Change trains cell
- Standardization of control system SSEE Colegio
- 4. Maintaining of bars
- 5. Standardization of ancillary services
- 6. Optical fiber SSEE MT-MT

Grids



Reinforcement of 340 Km of grids MT

- 1. Telecontrol
- 2. Comprehensive plan
- 3. Replenishment and substitutions
- 4. Forest Management
- 5. Normalization MT
- 6. Chargeability
- 7. Wind season
- 8. Rainy season



Project Codensa Telecontrol

Improved and decreased in duration of troubleshooting

Goals 2015 3.787 Remotely controlled switchgear installations

1.800 Km de of reinforcing grids

1.260 Telecontrolled equipment



Benefits

- Shorter times for troubleshooting
- Greater selectivity, less affected clients (quantity, time, programming)
- High levels of customer satisfaction...
- Low volume of calls to Fonoservicio
- Automatic faults localization and with less human resource (mobile)
- Lower congestion in control center (mobile coordination)
- Increased efficiency and effectiveness in the operation of the grid and customer service











Tariff Revision

Changes in the remuneration of the component of comercialization and distribution

Current

New

Comercialization (Cx)

- Since 1998
- Recognition of 15% of efficient costs of Cx



- Recognition of 2.73% on efficient costs of Cx+ portfolio risk + financial cost of subsidies
- To define the compensation of operative expenses for loss

Distribution (Dx)

WACC remunerative assets

- 13.9% for NT1 to (Maximun price)
- 13% for assets NT2-4 (Maximun revenue)



 Will be defined in future resolutions 2015

Distribution (Dx)

Regulated asset base (RAB)

- Replacement value to new (RVN).
- Investment recognition
 - -MT/BT: to the beginning of the
 - pricing period
 - –AT: to enter to operate within the pricing period.



Incentives to invest in infrastructure replacement and quality:

- Depreciated replacement cost
- BRA- min. 75% replacement value.
- Investment Plan (5 years) turn off in the beginnings with the "maximun revenue".



Conclusions Codensa & Emgesa

2014: Year of outstanding results despite the changing environment

Significant progress on projects to ensure the energy supply to the rhythm of the country's needs in a planned way

2015:

- ✓ Focus on products and value added services to increase energy demand
- ✓ Commitment to innovation and adoption of new technologies, promoting energy efficiency for the development of cities.
 - ✓ Maintaining a strong financial management of the companies, which supports high credit ratings.

Contact us Investor Relations team

inversionistas@emgesa.com.co rinversionistas@codensa.com.co



Leonardo López VergaraFinance and Administration Officer

llopez@endesacolombia.com.co

Carolina Bermúdez Rueda

Deputy Finance Officer cbermudez@endesacolombia.com.co

María Patricia Moreno Moyano

Head of Investor Relations and Financing +57 1 601 6060 Ext: 3502 mmorenom@endesacolombia.com.co

Andrea Maria Triana Melendez

Investor Relations and Financing +57 1 601 5564

atriana@endesacolombia.com.co

Juan Camilo Jaramillo Cabanzo

Investor Relations and Financing +57 1 601 5559

jjaramillo@endesacolombia.com.co

Visit our web pages for additional information: www.emgesa.com.co / www.codensa.com.co



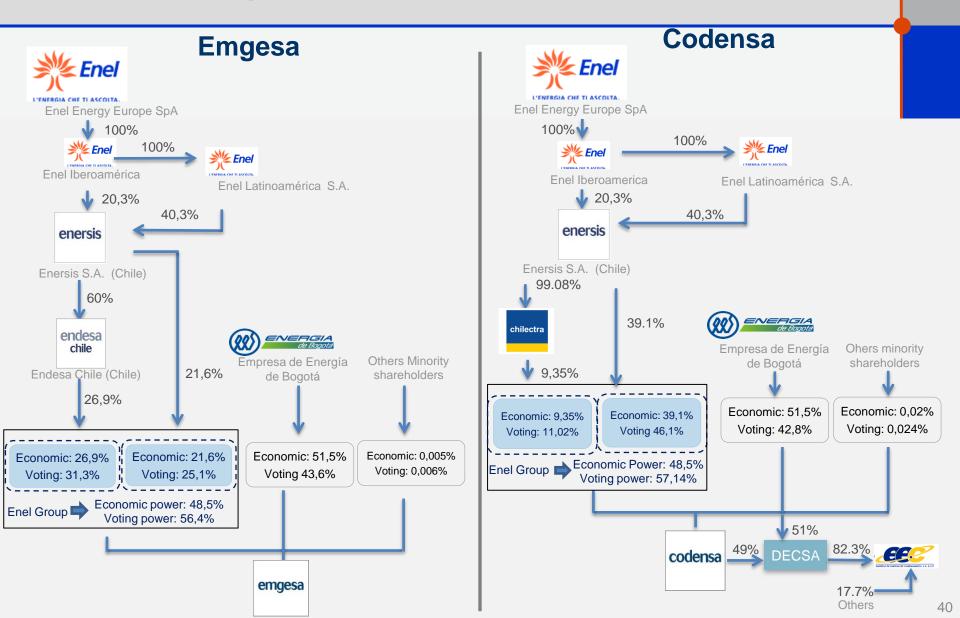
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Shareholder's Ownership

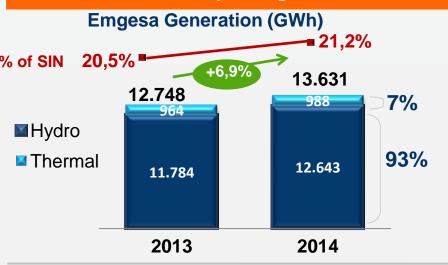
Shareholding Composition



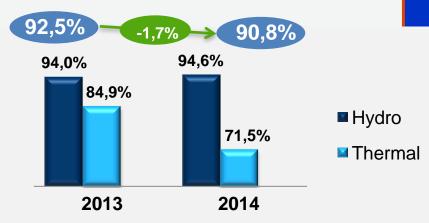


Results Generation - Emgesa

Year of contrats in hydrological contribution in the country and high prices of strock



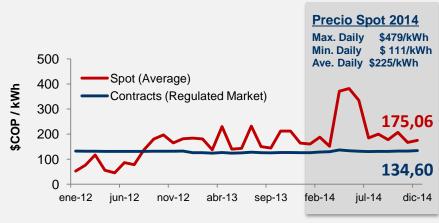




Energy Sales (GWh)



Evolution of the price of Electricity Bolsa vs Contracts (Sistema)



Fuente: XM

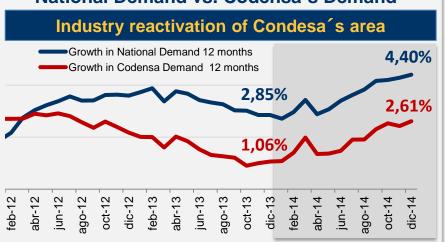
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Results Distribution - Codensa

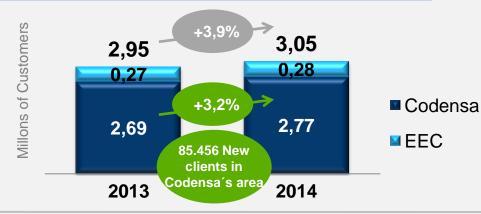
Recuperation of demand and growth in comercialized energy

National Demand vs. Codensa's Demand

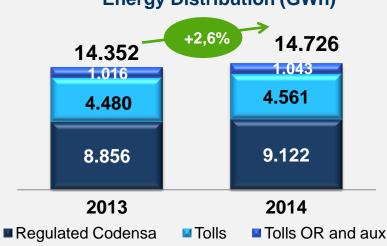


Growth in number of clients

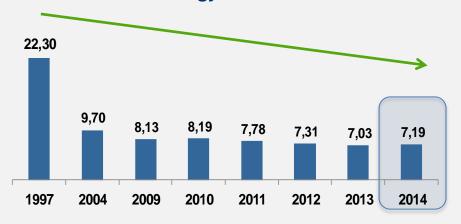




Energy Distribution (GWh)



Energy loss index



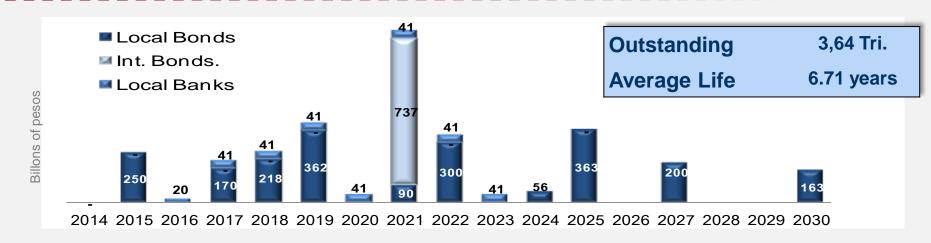
Emgesa's debt profile

Maturity profile distributed in 16 Years

Emgesa's Debt amortization schedule

As of December of 2014

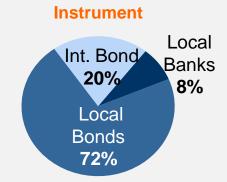
EBITDA (2014) ~ \$1.71 trillons

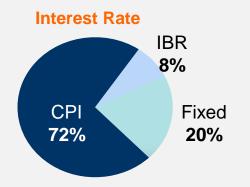


Composition of financial debt of Emgesa

As of December 2014







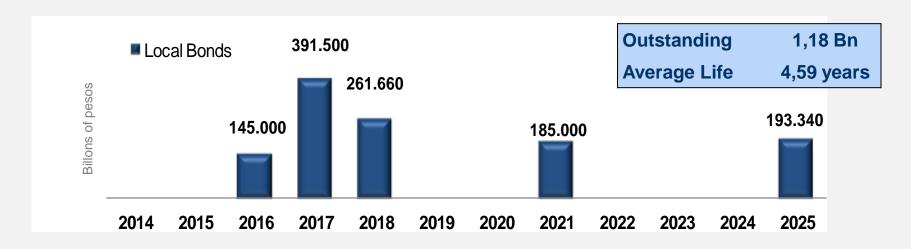
Codensa's debt profile

Conservative debt profile

Codensa's Debt amortization schedule

As of December of 2014

EBITDA (2014) ~ \$1.10 Billones



Composition of financial debt of Codensa As of December of 2014

COP 100%





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