

Renova at-a-Glance



Shareholders' Structure

Control Block: 79.1% ON, 59.1% Total











FIP Caixa Ambiental

Santander

Other

21.2% ON 0.0% PN 15.9% Total

21.2% ON 0.0% PN

36.6% ON 0.0% PN 15.9% Total 27.4% Total

4.0% ON 0.0% PN 3.0% Total

3.9% ON 23.2% PN 8.8% Total

4.9% ON 29.0% PN 11.0% Total

2.3% ON 13.6% PN 5.2% Total 1.0% ON 5.6% PN

2.1% Total

4.9% ON 28.6% PN

10.8% Total

Board Composition

	RR	Light	Cemig
BOARD (3)	2	2	2
Committees			
Management	2	2	2
Audit	2	2	2
Finance	2	2	2
Talent & Comp.	2	2	2
Pipeline Dev. & NT	2	2	2
Engineering	2	2	2

Decisions are always unanimous!

Source: Company as of January 2013.

- Considering capital increase subscription only by Cemig GT.
- RR shares out of the control block.
- The Board of Directors have a total of 9 members, of which 3 are independent.

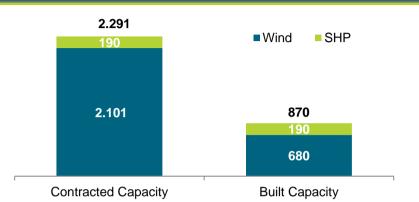
Unmatched Shareholders' Base



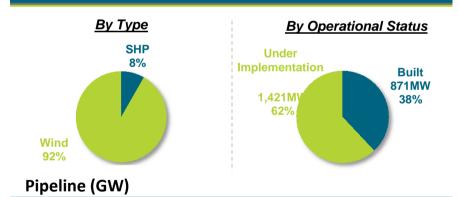
Renova at-a-Glance





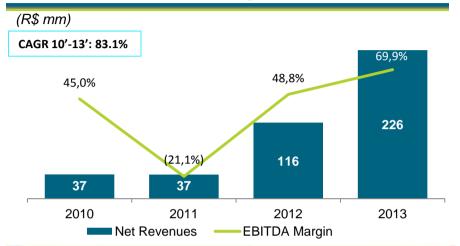


Energy Source





Net Revenues and EBITDA Margin



Net Revenues in 2013: R\$ 226 mm

Net Income

(R\$ mm)
CAGR 10'-13': 61.2%

6,3

(12,1)

(6,0)

2010

2011

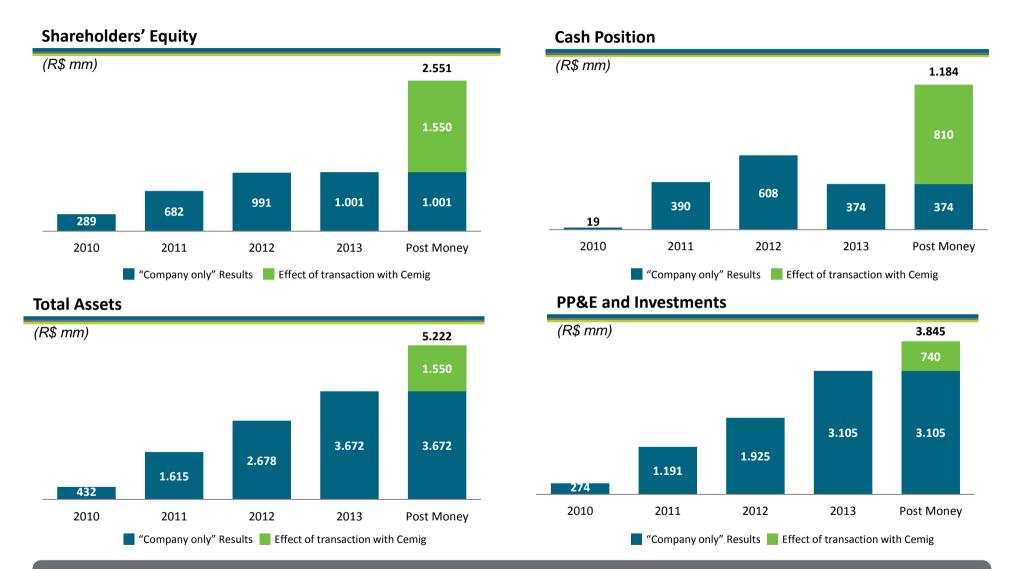
2012

2013

Profit in 2013: R\$ 6.3 mm

Cemig's Transformational Transaction for Renova Strong Balance Sheet and Cash Availability



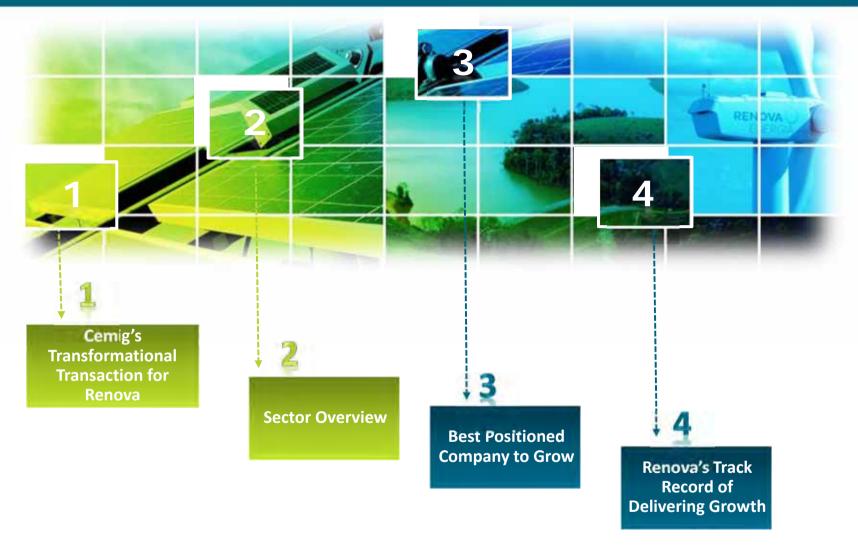


The increase in profitability and EBITDA generation are greatly attributed to the additional revenue from LER 2009 (Jul-2012) and administrative expenses dilution. This revenue generation is recurrent for next years. The recent CEMIG transaction reinforced the cash position for Renova and the strong cash generation make viable the Company's business plan without need for additional capitalizations



Agenda







Cemig's Transformational Transaction for Renova Cemig Strength in Numbers





Electricity distributor













Company Highlights

Integrated
Power
Utility in
Brazil

#1

Historical EBITDA Growth 2006-12

+58%

Role in industry

Leading Consolidator

Market cap of US\$ 6.9bn⁽¹⁾

+#3(2)

Brazil's Leading Power Utility

Number of power plants

70

Locations in Minas Gerais State

5,415

Total installed capacity

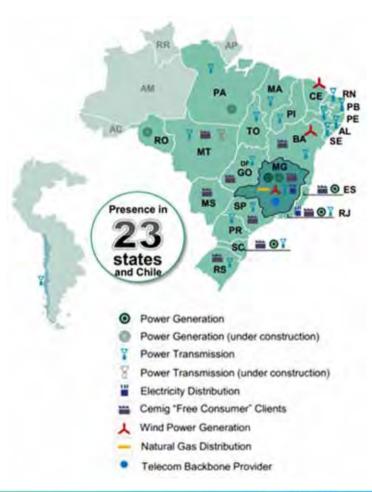
7,317 MW

Electricity Distribution lines

526,869 km

Power Transmission lines

9,454 km



Source: Company

Note:

⁽¹⁾ As of January 29th, 2013

⁽²⁾ In the Brazilian Energy Industry

Cemig's Transformational Transaction for RenovaWhat Cemig Means



Transaction Overview

- Renova is Cemig's growth vehicle in renewables
- Renova capital increase: R\$1,550 bn
 - Business plan: R\$ 810 mm
 - Brasil PCH acquisition: R\$ 740 mm
- Brasil PCH:
- Inst. Capacity.: 291 MW
 - 2013 Ebitda: R\$ 260
 - Acquisition of 51%
- Cemig joins Renova's control block

Renova After Transaction

- Strong cash position in a low liquidity market
- No changes Management team
- Entrepreneurship maintained
- Differentiated access to Cemig's unique distribution to free market
- Backed by a strong sponsor with deep knowledge of the sector



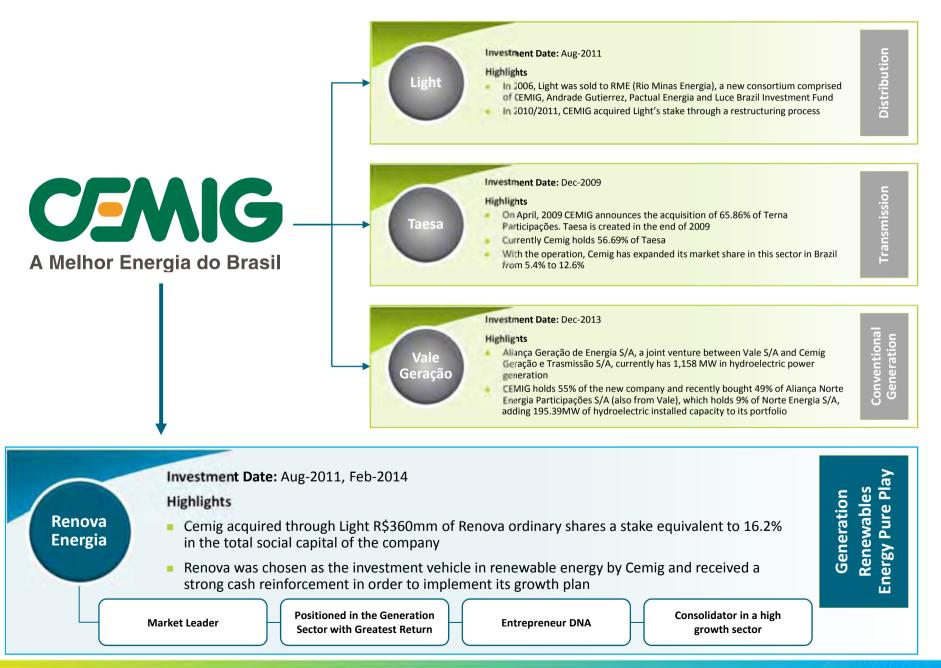
Win-Win Relationship

Exposure to higher growth and return segment and firm in energy sector

Cemig's financial, operational and commercialization support

Cemig's Transformational Transaction for Renova CEMIG has a Strong Track Record of Identifying the Best Opportunities in the Market





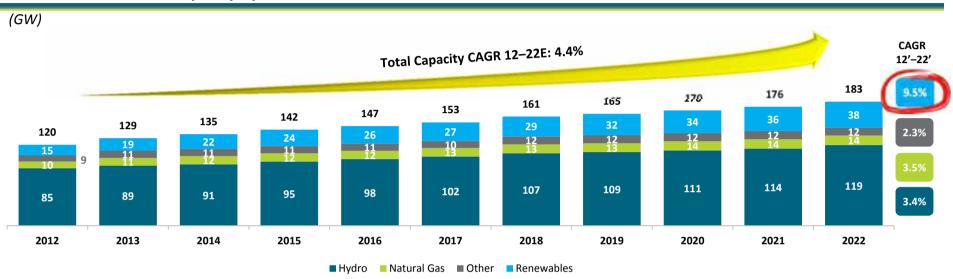


Sector Overview *Situation Assessment*

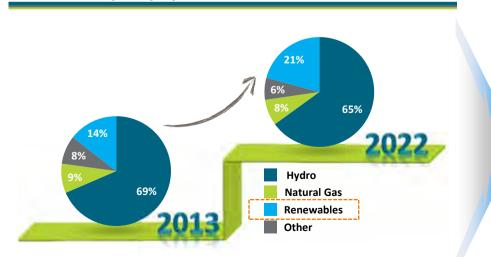


Renewables in Brazil are expected to grow at a CAGR of 9.5%, surpassing by far the expansion of other sources

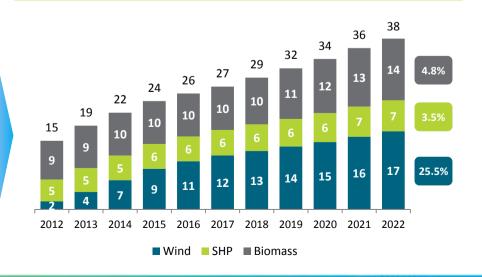
Evolution of Installed Capacity by Source



Installed Capacity by Source



Renewable Installed Capacity Breakdown

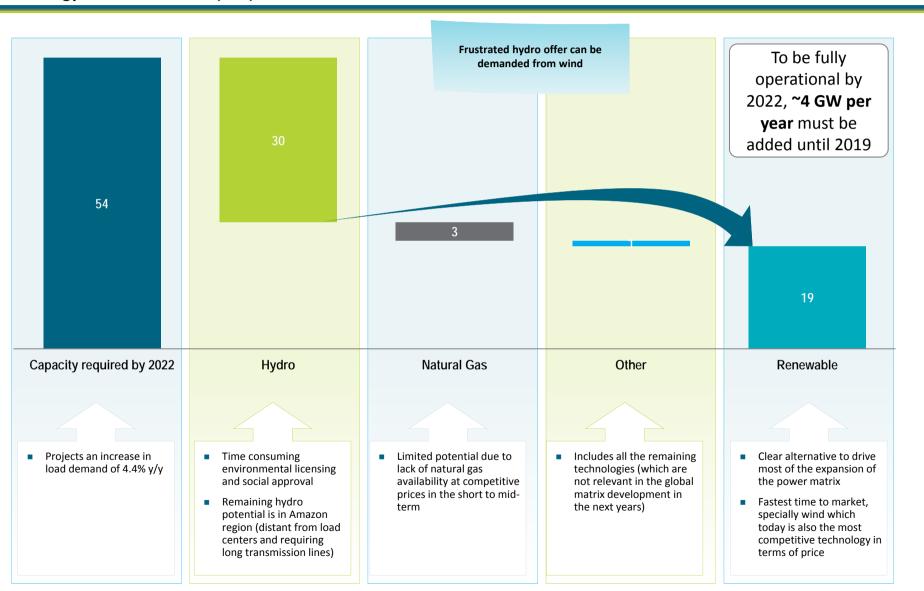


Sector Overview Strong Demand to be Covered by Renewables



Growing demand in Brazil will be tapped by alternative sources. In order to achieve the PDE's projections, all demanded energy must be sold until 2019 to be operational in 2022, representing an added capacity of approximately 9.0GW per year

New Energy Demand in Brazil (GW)

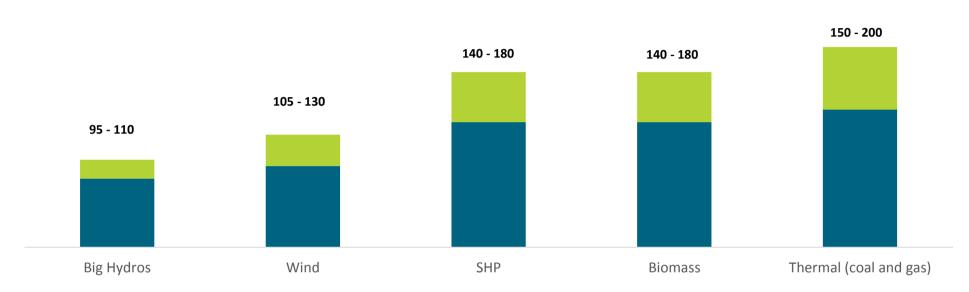


Sector Overview Wind is the Most Competitive Renewable Energy Source



Price range MWh

R\$ / Source



Wind vs. Other Sources

	Wind	SHPs	Biomass	Hydro	Thermal (Coal)	Thermal (Gas)	Thermal (Oil)
Period of Construction (Years)	1.0-2.0	3.0–4.0	2.0-3.0	4.0-7.0	3.0 –5.0	3.0–4.0	1.0-3.0
Capex (R\$/MWh)	4.0–4.5	6.0–7.0	3.1–5.7	3.6–4.0	4.0–4.8	3.0–3.8	3.0-4.0
CAGR 12'-22'	25.5%	3.5%	4.8%	3.4%	n.a.	3.5%	n.a.

Wind is the undisputable winner in Renewables and is poised to lead the supply of Brazilian growing demand over the next years

Sector Overview *Wind Comparison Brazil vs. World*



Maximize Capacity



Goal

The model with subsidy seeks to maximize energy generation (MW or MWh) to develop the market

Minimize Cost



Goal

The current Brazilian model aims to minimize costs (R\$/MWh) in a model oriented to competition

Europe Wind Farms



- Oriented layouts to maximize capacity
- Turbines placed in good and average winds
- Lower average load factor

Brazilian Wind Farms



- Turbines placed only in excelente winds
- Turbines in line side-by-side on hilltops
- Minumum Wake/treadmill effects
- Higher average load factos / Lower cost of energy

Sector Overview Wind Comparison Brazil vs. World

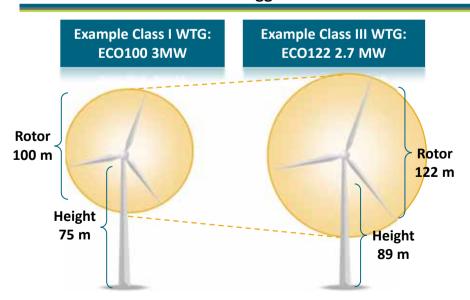


Big rotor for fast winds, because lack of turbulence and Wind gusts

WTG's Classes According to IEC 614000-1 (2005)

(GW) Renova WTG Class 1 WTG Class 3 WTG Class 2 Average Speed (m/s) 7.5 8.5 10 9 **Determines energy production** Renova WTG Class 3 WTG Class 2 WTG Class 1 **Wind Gusts** 37.5 42.5 >36.4 Determines turbine model, height and diameter of rotors Renova WTG Class 3 WTG Class 2 WTG Class 1 **Turbulence** < 0.10 0.12 0.14 0.18 Determines turbine model, height and diameter of rotors

Low Turbulence and Gusts: Bigger Rotor



Energy = Air density * (Rotor Diameter)² * (Wind Speed)³
Energy is directly related to speed and rotor diameter

Load factor by class of turbines

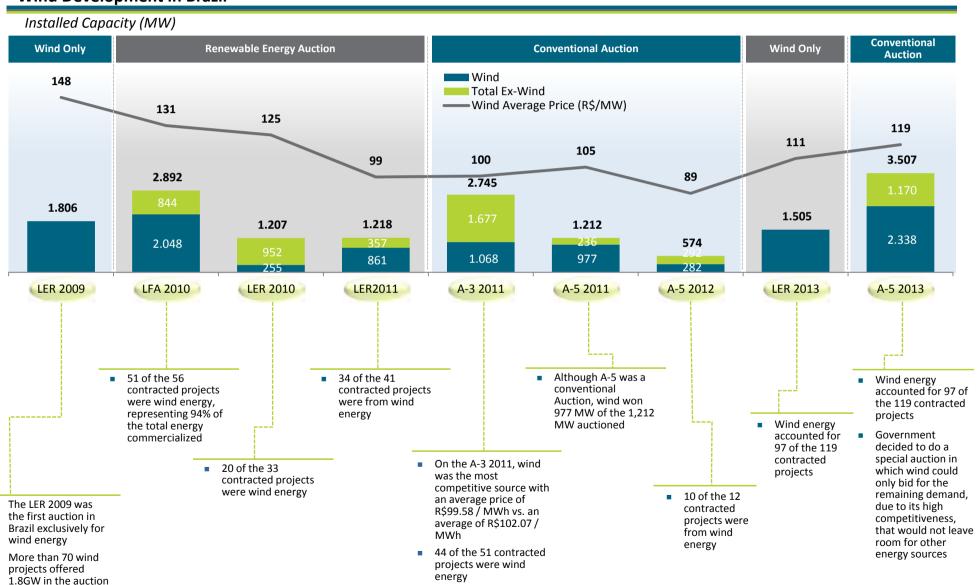
Wind Speed	'Class 1	Class 3
9,4 m/s	44%	59%

Sector Overview Wind has Increased its Importance in Recent Auctions



Wind became one of the most competitive sources in Brazil, and there is still a lot of room for growth

Wind Development in Brazil





Best Positioned Company to Grow

Renova Meets All the Requirements to Lead the Renewables Sector



Strong Fundamentals Sustaining the Best Performing Company in the Sector



Highly Competitive Pipeline



- Assets located in the best regions for wind in Brazil
- Taylor made projects for Renova's wind farmds
- Unmatched project development capabilities

Integrated Business Model and **Scale** Sustaining High Performance



- Strategic partnerships with key suppliers providing significant bargaining power from scale: (70% of capex) produced in factory lines
- -Operations in clusters allow increased O&M efficiency
- Value creation captured from pipeline development

Financial Strength to Execute Business Plan



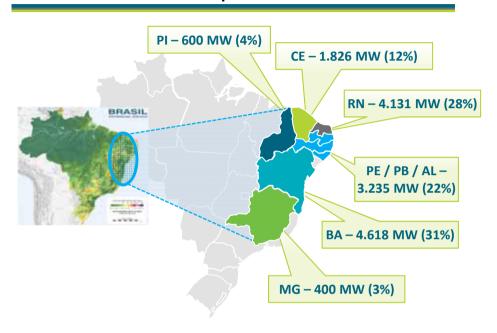
- Renova's ability to fund its equity requirements provides a competitive advantage
- -Strong balance sheet is key to support leveraged business model
- Resources already available to fund growth

Best Positioned Renewable Player to Grow Strong and Competitive Pipeline



Renova is very well positioned to strengthen its leadership position with one of the largest development pipeline in Brazil

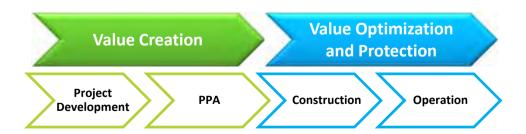
Wind Assets Under Development: 14.8 GW



One of the Largest Wind Portfolios Under Development

Cluster	Location	Advanced Development Stage Estimates	Measured Load Factor		
Tupamama	PE / AL	800	53.9%		
Arpoti	PE / PB	800	52.5%		
Parelhas e Santa Luzia	РВ	590	53.7%		
Labocó	RN	1,050	54.3%		
Poranga / Croatá	CE	1,700	48.1%		
Others	-	9,870	TBD		
		14,810			

Full Cycle Developer Maximizes Value Creation



Total Assets Under Development: 15.6 GW

Source	Capacity	% of Total
Wind	14,810	95%
SHP	580	4%
Solar	205	1%
Total	15,595	100%

⁽¹⁾ Note: Considers the acquisition of 51% of Brasil PCH.

Best Positioned Renewable Player to Grow Differentiated Long Term Alliance With Key Suppliers



Renova has always pursued and conquered the best partnerships with suppliers to achieve growth and scale





Scale Gains

Turbines asembled: 414

Operational Strategy

- GE has a distribution center in loco.
- Own crane saves up to 2 week of shipping

Contract

- GE power curve guarantee: 98% to 100%
- GE availability garante: 97%
- GE O&M for ~15.000 turbines globally

- Largest onshore wind turbine supply agreement
- Volume: 570 turbines / R\$ 3.3 billion
- Best price guarantee
- Contract size guarantee sustainable competitive advantage
- Long term O&M services at Renova's big clusters allows huge scale gains
- Finame compliance guarantee
- Price fixed in R\$ when order is placed. Before, FX contribution given by a known formula

Operational Strategy

Scale Gains

- New tower and blade factories close to Renova's sites reduces costs and mitigates risks
- Alstom will have a distribution center in loco.

Superior Technological Development

- Alstom specifies turbine type for every turbine position, maximizing productivity
- Co-development aimed to improve efficiency in 5% (cost reductions and higher productivity)
- Priority access to new technologies

Renova has actively negotiated contract conditions with GE and a long-lasting partnership with Alstom in order to deliver the best projects

Best Positioned Renewable Player to Grow Opportunity to Consolidate the Fragmented Renewable Energy Sector





 Lower cost of capital to fund new acquisitions positioning Renova as market consolidator

V

New funding from Cemig increases room for acquisitions



 Opportunity to balance assets that are already in operation with others that are under construction



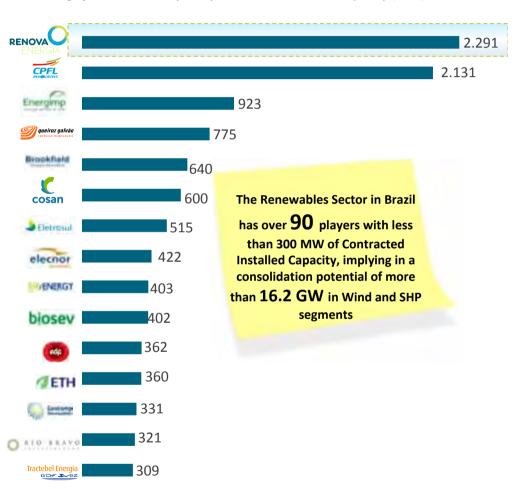
Renova's shares can be used as trade currency in M&A transactions



 Scale is fundamental to allow for the best O&M professionals and for optimal O&M cost per MW

The Largest Renewable Energy Player^(1,2)

Ranking of Renewable Players by Contracted Installed Capacity (MW)



Renova is uniquely positioned to capture growth from acquisitions

Source: BIG - Banco de Informações de Geração - ANEEL.

⁽¹⁾ Considering assets in operation and energy sold in energy auctions since 2009.

⁽²⁾ Includes 50% of Brasil PCH

Best Positioned Renewable Player to Grow Most prepared Company to develop solar energy



Distributed generation

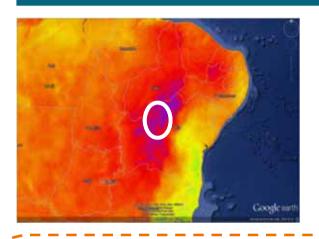
Development of distributed projects:

- A plant with installed capacity of 25.65kWp was installed for the gold mining company Yamana Gold, at Pilar de Goiás, to supply the company's operations using photovoltaic modules with mono crystalline silicon technology.
- A second plant was installed at a home in Rio de Janeiro, with installed capacity of 13.3kWp.





Utility scale



Gold Mine is situated in 1 of the top 3 best locations to produce solar energy in Brazil.

First hybrid commercial project: wind + solar

- Wind: 21,6 MW 11,0 MW average
- Solar 4,8 MWp 1 MW average
- Conclusion: 2015
- Financing: FINEP up to R\$ 108 million, cost of 3,5% and term of 10 year

LER 2014 – solar, wind, solid waste

- EPE declared that ANEEL will promote a LER this year (August)
- Probably the fonts will compete separately
- Renova intend to register 200 MW in solar

Best Positioned Renewable Player to Grow *Financial Informations of Only Contracted PPA*



Inflation linked cash flows sustaining growth

Contracted Installed Capacity



	SHP	Brasil PCH	LER 2009	LER 2010	A-3 2011	A-5 2012	LER 2013	A-5 2013	PPA Light I	PPA Light II	Free Market (I, II, III)	PPA Cemig	Total / Average
Installed Capacity (MW)	41.8	148.4	294.4	167.7	218.4	22.4	159.0	355.5	200.0	200.0	145.7	338.1	1,953.3
Contracted Energy (Average MW)	25.0	95.8	127.0	78.0	103.6	10.2	73.7	183.9	100.6	102.7	76.0	177.3	979.6
Load Factor (Gross)	44.9%	64.6%	50.8%	50.4%	48.9%	55.2%	53.2%	53.3%	53.0%	53.0%	55.2%	52.0%	52.3%
Start of Operation	May, Jul, Sep/2008	Mar/08 and Feb/09	Jul/12	Sep/13	Mar/14	Jan/17	Sep/13	May/18	Sep/15	Sep/16	Apr/15, Jan/16 and Jan/17	Sep/18	<u>-</u>
Term	20 years	20 years	20 years	20 years	19 years and 10 months	20 years	20 years	19 years and 10 months	20 years	20 years	Approx. 6 years	15 years	20 Years ⁽²⁾
Average Price (R\$/MWh) ⁽¹⁾	210.68	210.68	184.36	148.72	115.37	95.40	108.57	120.68	140.00	140.00	~115.0	~130.0	144.37

⁽¹⁾ Price adjusted to inflation to reflect values as of December 31, 2013.

⁽²⁾ Does not consider free market I, II and III.

⁽³⁾ Considering 50% of stake in Zeus

Best Positioned Renewable Player to Grow Experienced Management with Strong Sponsorship



We benefit from a seasoned professional management team supported by highly capable shareholders

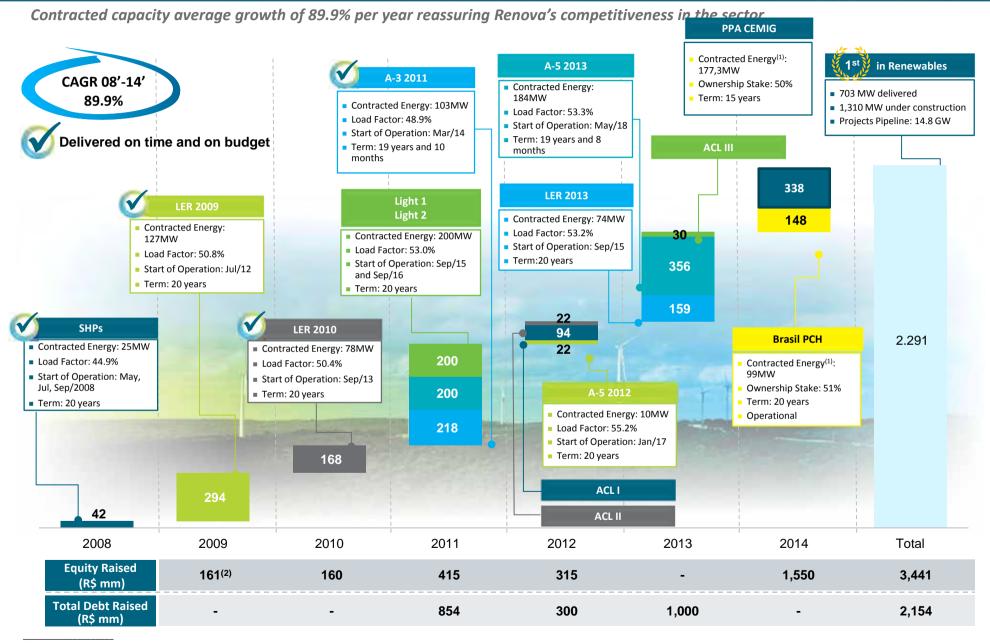
Ideal Mix of Capabilities

Carlos Mathias Becker Neto Pedro Pileggi **Ney Maron de Freitas** CFO and IR Officer CEO **Environment Director** MBA from MIT MBA from Kellogg School of Law from UFBA and engineering degree Worked at McKinsey, Fidelity Management, Law degree from PUC from UCSAL Worked at Braskem and at Center for Investments, Renault Cars, and Volvo Worked at Santander, BBA, Accenture Trucks and owned an IT firm. Environmental Resources of the State of Bahia **Executive Officers** Ricardo de Lima Assaf Álvaro de Freitas General Counsel and Chief Procurement Director of Engineering and Construction Officer Law degree from Mackenzie Electrical Engineering from Gama Filho, Partner at Machado Meyer Sendacz e master in Finance from Universidade Opice (general counsel regulatory and Católica Portuguesa Worked at Furnas, ABB Portugal and *institutional affairs)* Gamesa. Controlling shareholder with Institutional unmatched track High standards of **Aligned Highly Experienced** shareholders with a record in the corporate history of success in Management **Interests** industry and in governance their areas value creation for its shareholders



Renova's Track Record of Delivering Growth Highly Visible Contracted Capacity Growth Performance





Note:

⁽¹⁾ Considering the Company's 51% stake in Brasil PCH.

⁽²⁾ Up to 2009.

Renova's Track Record of Delivering Growth Deliveries on Time and on Budget



Sound Execution Capabilities

One of the best located wind farms in the world:

- Above average load factors
- One of the largest pipeline under development in the

Integrated business model:

Strong Engineering Team

- Focus on O&M

Scale and increased bargaining power:

- Optimized capex and opex
- Cluster development strategy

Commercialization capabilities:

- Competitive access to regulated market
- Access to Cemig's differentiated trading platform to free market

Financial strength to deliver the **Business Plan:**

Fully funded operations

Delivery of Alto Sertão I

- Excellent performance achieved with top-notch execution team combined with strategic partnerships
- Unmatched scale and synergies due to size, location and operational agreements
- Ready to operate
- Estimated generation 18 months after work's completition:
 - 7.2% above P50
 - 26.1% above P90



Alto Sertão II

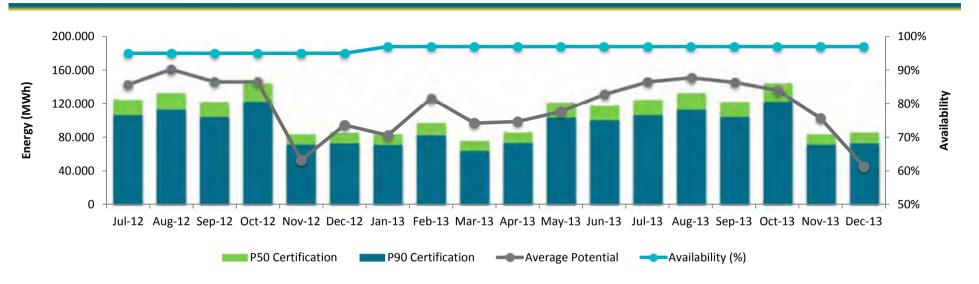
- 15 wind farms of LER2010 and A-3 2011 located near to Alto Sertão I
- Installed capacity of 386MW
- R\$1 bn credit approval from BNDES
- The complex is not connected yet with transmission lines, but the company already asked for the schedule concatenation



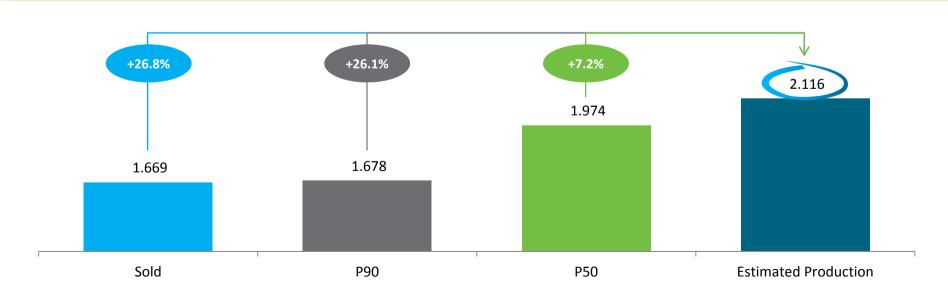
Renova's Track Record of Delivering Growth Alto Sertão I: Wind power potential of generating



Estimated production (MWh)



Sales and Estimated Production (GWh)



Alto Sertão I







Challenges of operating in a water scarcity scenario



Belo Horizonte, May 26, 2014

Presented by: Nelson Benício Marques Araújo



















THEMES

1. CURRENT SITUATION

- > The rainy season and flow volumes
- Storage
- Marginal cost of operation

2. RELEVANT ISSUES

- Itaipu, Ilha Solteira, Três Marias
- > Demand peaks, blackouts, use of the thermal plants

3. OPERATIONAL REPERCUSSIONS

- 4. MAINTENANCE REPERCUSSIONS
- 5. CONCLUSIONS



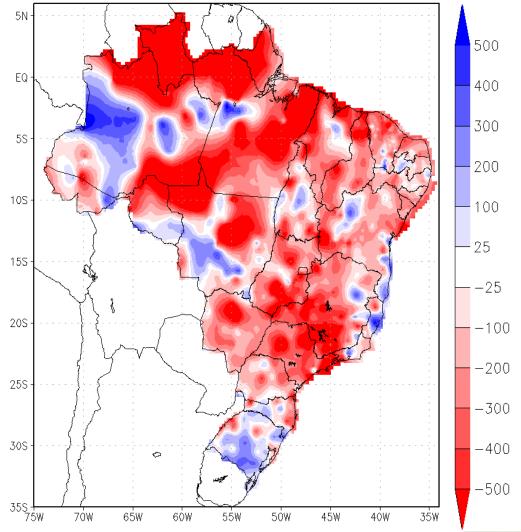
CURRENT SITUATION





Rainy season map

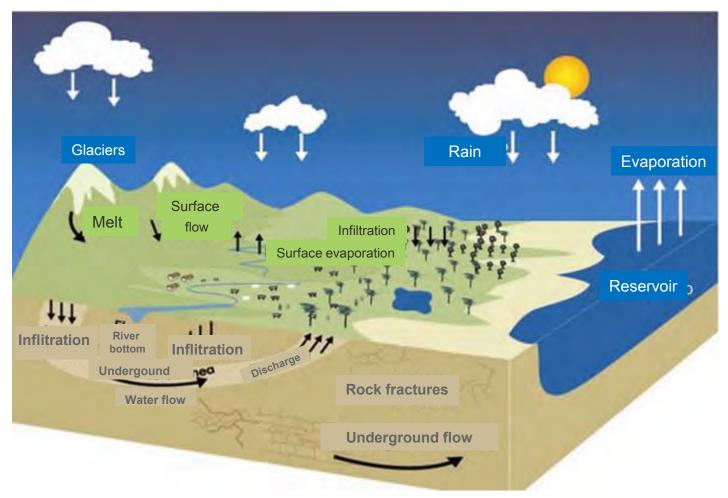
Relevant Brazilian river basins received below average rainfall from November 2013 through April 2014





CURRENT SITUATION

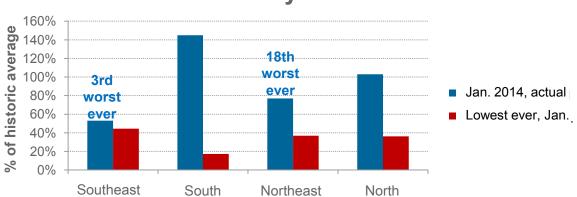
Water for energy – hydrology cycle





Natural Affluent Energy in Brazil's regions

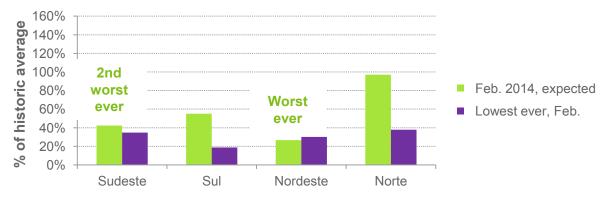




Natural Affluent Energy (Energia Afluente Natural, or ENA) is the term used in Brazil for the total energy produced by the various sources flowing into a reservoir.

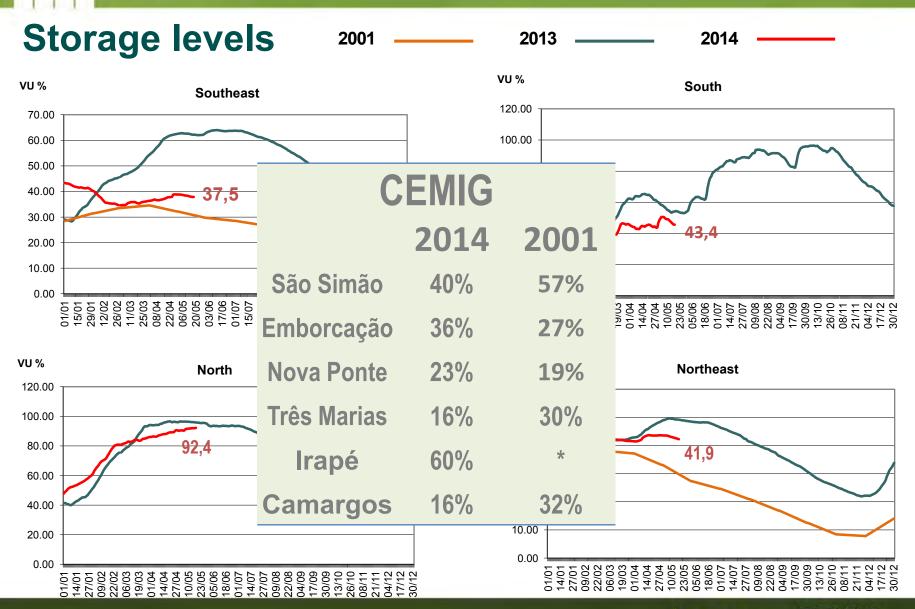
February 2014

In Brazil's Southeast and Northeast subsystems, the month of *February* typically has the highest value of ENA





OPERATIONAL CHALLENGES with water scarcity CURRENT SITUATION























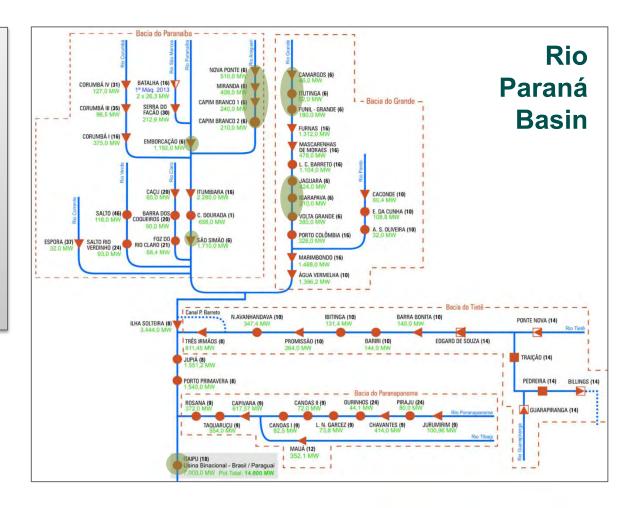


RELEVANT ISSUES



Itaipu reservoir

The Itaipu Plant is the
last cascade of the
Paraná River and is
connected by water to
12 of Cemig's plants



















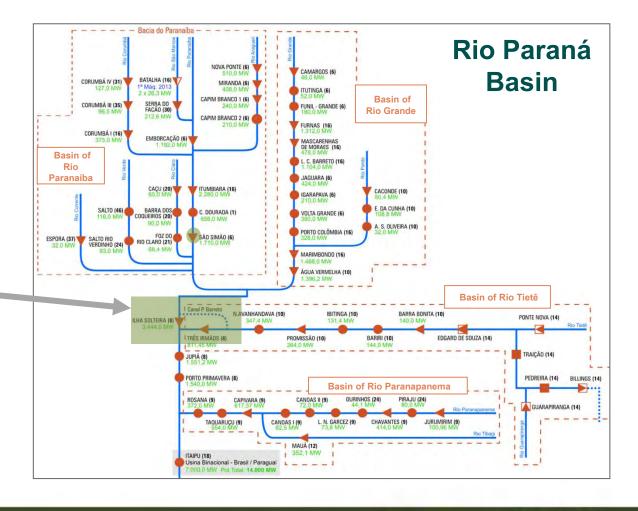






Navigation at Ilha Solteira and Três Irmãos plants

The 6-mile Pereira
Barreto channels links
the reservoirs of Ilha
Solteira and Três
Irmãos hydro plants





































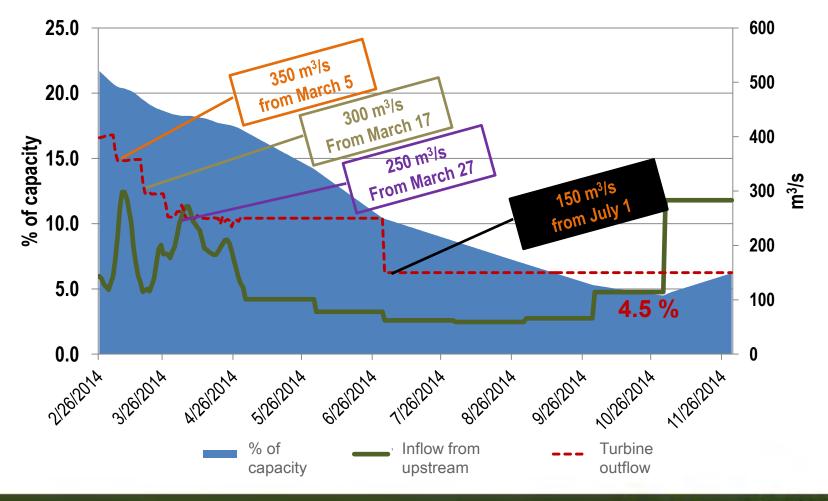






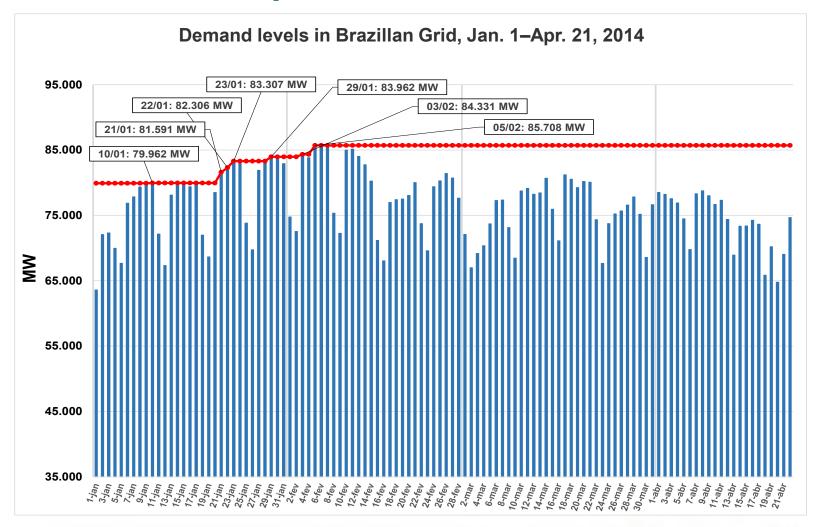


Três Marias – with reduced outflow



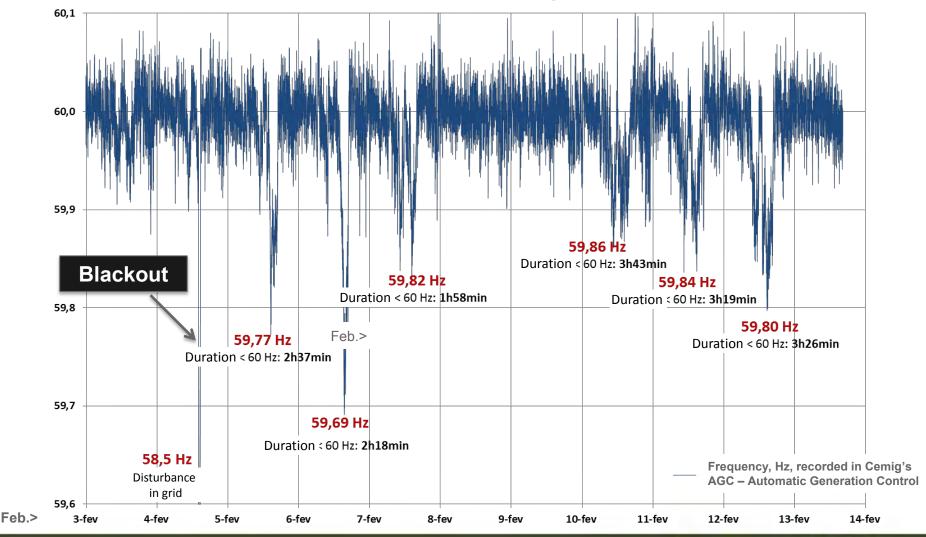


Consumption: maximum demand





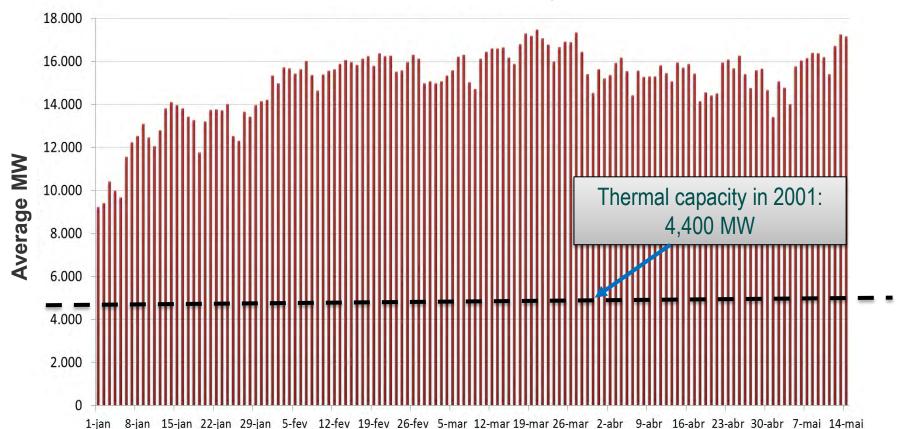
Consumption – Underfrequency, and "Blackout"





Thermoelectric plants generation

Thermal plants dispatch, Jan 1–May 14, 2014







Power loss due to reduced levels



XIX Encontro Anual CEMIG-APIMEC

OPERATIONAL CHALLENGES with water scarcity

OPERATIONAL REPERCUSSIONS

Reducing generation (or 'Null Generation')

 This is a "non-usual" operation, in which plants with low load are disconnected to make best use of thermally-generated supply

Dear Djalma,

- Due to the hydrological energy conditions in the National Grid, it has become necessary to maximize generation
 in the thermoelectric plants throughout the system to minimize the use of the water stored in the reservoirs of the
 hydroelectric plants.
- 4. Hence, we are hereby requesting you to implement the following operational measures in the plants that are under Cemig's responsibility, between midnight and 7 a.m. during weekdays and Saturday, and Sunday from midnight until 5pm:
 - a. Null generation in the Emborcação and Nova Ponte hydroelectric plant; and
 - b. Disconnection of three of the generating units of the São Simao hydroelectric plant.

Yours

Director General

OPERATIONAL CHALLENGES with water scarcity

OPERATIONAL REPERCUSSIONS

Reducing generation (or 'Null Generation')

- Partnering with the ONS* to comply with the requests
- Since we are aware that the Electricity Sector is going through a critical period, we are seeking to make the best possible contribution, and making efforts to reduce generation further down during the low load period. To this end, the environmental risk of fish deaths and other damages to the river downstream have been carefully studied. We have now completed environmental tests on the Nova Ponte and São Simão plants, as follows:
 - ✓ Nova Ponte Hydroelectric Plant According to the tests conducted on March 26, 2014, Nova Ponte generation could be null, provided that the level at the Miranda Hydro Plant is above 695.0m above sea level (66% of capacity). If the level is below, the minimum generation at Nova Ponte Hydroelectric Plant could be 35 MW, with 1 (one) generating unit in the minimum band and the Miranda Hydroelectric Plant with its NA above 694.48 to maintain the minimum rive flow downstream from the plant; with Miranda Plant below this level, the minimum generation at Nova Ponte is restricted to at least 70 MW (two units at 35 MW) or 120 MW (one unit);

^{*} ONS = National System Operator

Reducing generation (or 'Null Generation')

- ✓ São Simão Hydroelectric Plant: According to the tests conducted on March 27, 2014, the minimum operational restriction of the generating units to mitigate the environmental impact is to temporarily reduced generation from 230MW to 185MW to minimize generation. The tests showed that it is less aggressive for the fish population if all generating units operate at a level around 185 MW rather than stopping and restarting the generating units every day.
- In terms of Emborcação Hydroelectric Plant, the environmental tests to verify null generation are in the programming phase, and should be completed in the following days. Given that the impact extends to a stretch of more than 20km, due to the low NA at the Itumbiara Hydroelectric Plant, we decided, in conjunction with the Operator, to wait until the end of the p Fish Migration period.

Yours,

Djalma Bastos de Morais Chief Executive Officer

Multiple uses

- "Heterodox" operation of reservoirs has significant impact on other uses and adverse environmental aspects.
- Complex negotiation with communities, local governments, regulatory agencies and the Public Attorneys' Office can be involved.



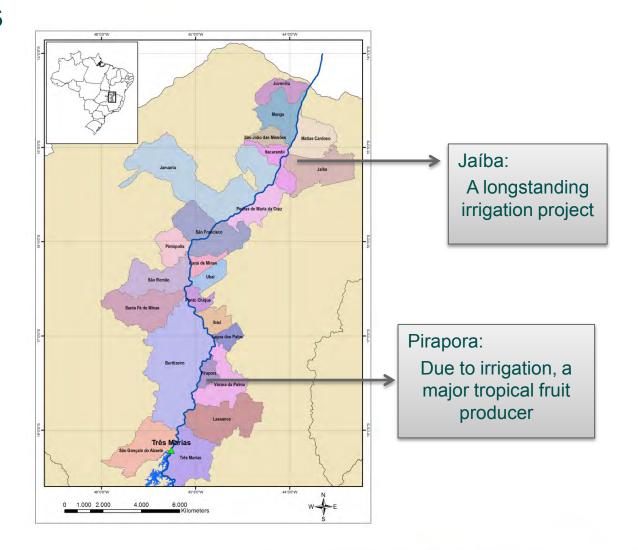
Reservoir at Lavras



Reservoir at Perdões

Multiple uses

Reduction of the minimum outflow from the Três Marias hydro plant – at the São Francisco River.





MAINTENANCE REPERCUSSIONS



Cemig maintenance

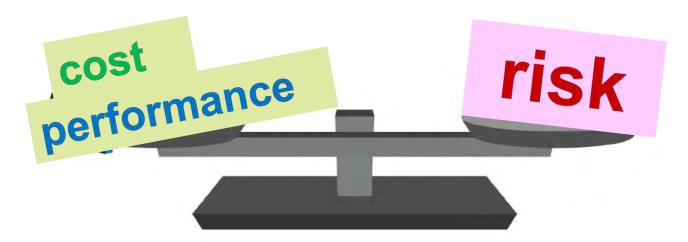
Emphasis on Reliable Engineering

Computerized management using SAP/PM

Reliability-Centered Maintenance (RCM): specific maintenance for equipment to avoid functional failure

Constant asset monitoring

Dedicated planning and engineering team



MAINTENANCE REPERCUSSIONS

Reliable Engineering

- Originated in industries that have zero tolerance of failure:
 - Nuclear plants, airlines / aircraft, submarines.
- Fundamental tool:
 - Solid and reliable database regarding equipment life
- Approaches:
 - Qualitative: Study all failure types and their consequences for the system. This is the approach used in <u>reliability-centered maintenance</u>.
 - Quantitative: Measuring number of failures, stoppage time and costs associated with maintenance and production loss. This is a statistical approach, in which the system is modelled by the distribution probability of a failure.



Reliable Engineering

Failure rate

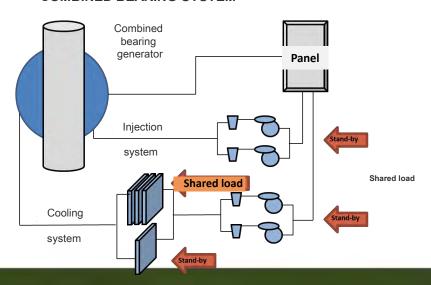
Figure 1: 'Bath' curve

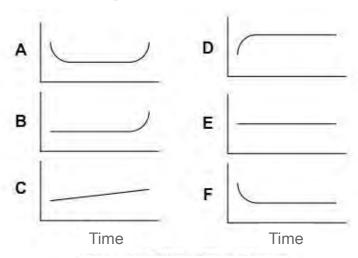
Useful life

Failure rate

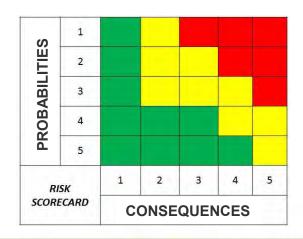
Time

COMBINED BEARING SYSTEM





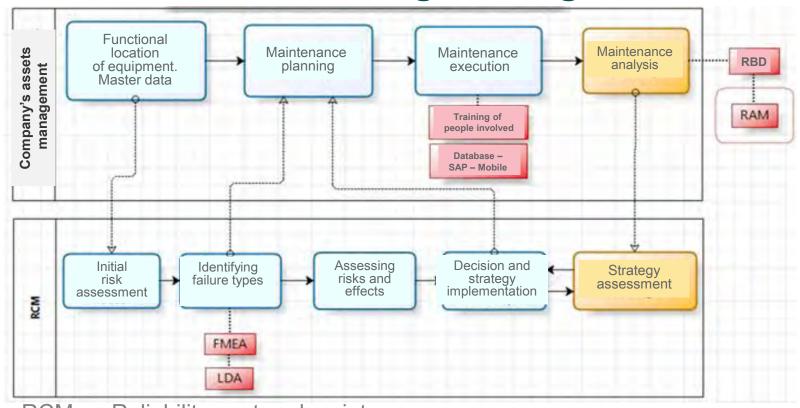
Failure rate vs. time





MAINTENANCE REPERCUSSIONS

Reliable Engineering



RCM: Reliability-centered maintenance FMEA: Failure mode and effect analysis

LDA: Life data analysis

RBD: Reliability block diagram analysis

RAM: Reliability, availability and maintenance

MAINTENANCE REPERCUSSIONS

Maintenance indicators

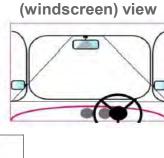
Classic indicators: Historic analysis

- Availability
- Failure rate
- Average repair time
 - Energy affected by the MRA

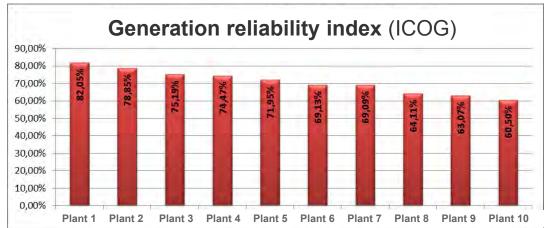
Rear-view mirror view

Generation Reliability Index: Future projections

- Aligned classic reliability concepts with risk theories
- Reflects reliability of the generation assets from business vision
- Allows to forecast future condition for each generating unit
- Enables ranking maintenance needs (expenses and investments)



Forward





Operating failures research

Research focused on generating units to map new operating failures to avoid reducing generation and run-off;

Limiting factors:

Type of rotor

Net fall

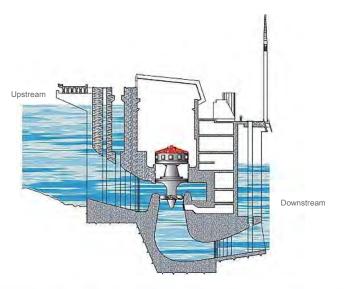
Cavitations and pressure oscillation (vortices) in the entry tube







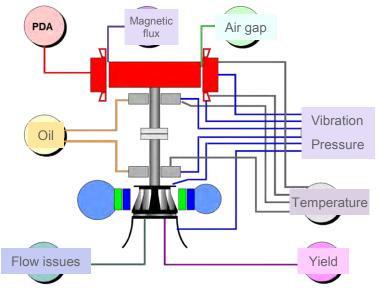
Flow without vortices

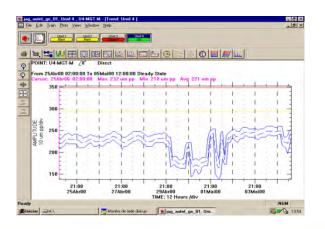




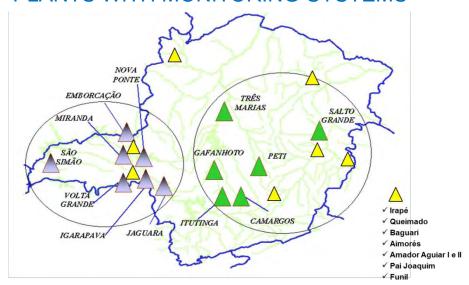
MAINTENANCE REPERCUSSIONS

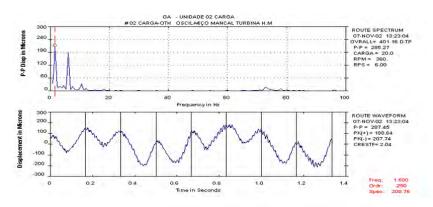
Monitoring





PLANTS WITH MONITORING SYSTEMS





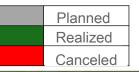
MAINTENANCE REPERCUSSIONS

Systematic maintenance

- Re-programming requests due to the current energy situation and the World Cup
- Engineering analysis to identify unavoidable technical maintenance
- Comprehension of critical cases by the System's Operator
 - Increase availability of contributing to the system's GSF

Planned

Gerência	Usina	Serviço Planejado	UG	Janeiro	Fevereiro	Março	Abril	Maio	Junho	Julho
MG/OE	UHE Jaguara	Inspeção e manutenção turbina	G2				_			
MG/OE	UHE Jaguara	Correção de vazamento transformador	G1			1	<u></u>			
MG/TA	UHE Miranda	Manutenção sitemática	G1							
MG/LE	UHE Aimorés	Manutenção sitemática	G1							
MG/LE	UHE Aimorés	Manutenção sitemática	G2							
MG/LE	UHE Aimorés	Manutenção sitemática	G3							
MG/NT	UHE Irapé		G3							
MG/NT	UHE Irapé	Manutenção Ancoragem Linha Curta: Oxidação	G2							
MG/NT	UHE Irapé		G1							
MG/TA	UHE São Simão	Manutenção sitemática	G3							
MG/TA	UHE São Simão	Manutenção sitemática/ Inspeção manutenção da turbina	G5							
MG/NT	UHE Queimado	Manutenção sitemática	G1							
MG/TA	UHE Amador Aguiar II	Manutenção sitemática	G3							
MG/TA	UHE Amador Aguiar II	Manutenção sitemática	G2							
MG/TA	UHE Amador Aguiar II	Manutenção sitemática	G1							
MG/NT	UHE Três Marias	Manutenção sitemática/ Inspeção manutenção da turbina	G2							
MG/LE	UHE Salto Grande	Manutenção sitemática/ Inspeção manutenção da turbina	G3							
MG/LE	UHE Salto Grande	Manutenção sitemática/ Inspeção manutenção da turbina	G4							
MG/UT	UTE Térmica	Manutenção emergencial	G1							





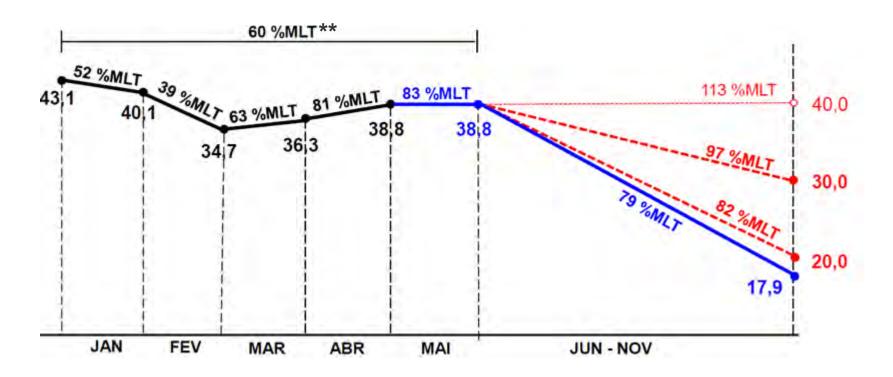


CONCLUSION



Storage level projections by the ONS*

Expectations for storage levels in the Southeast



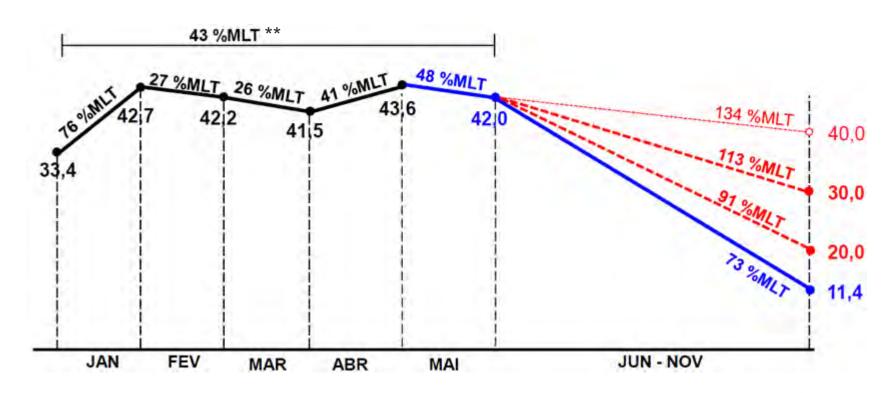
^{*} ONS = National System Operator

^{**} MLT = % of [Médio de Longo Termo (long-term average)] of water inflow to reservoirs.



Storage level projections by the ONS*

Expectations for storage levels in the Northeast

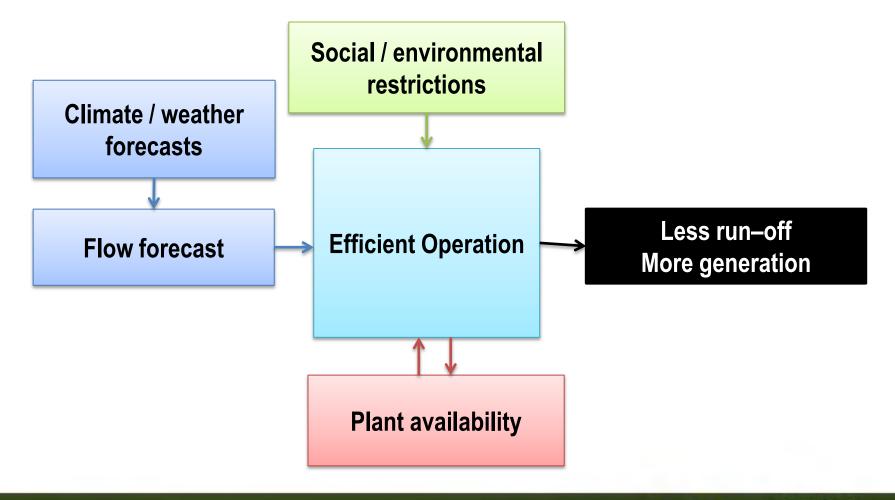


^{*} ONS = National System Operator

^{** %} MLT = Percentage of average long-term inflow to reservoirs

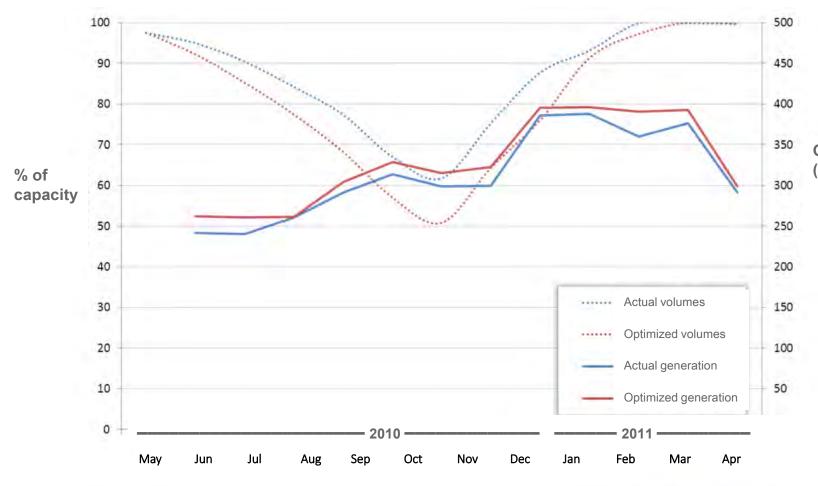


Efficient Operation





Efficient Operation



Generation (average MW)

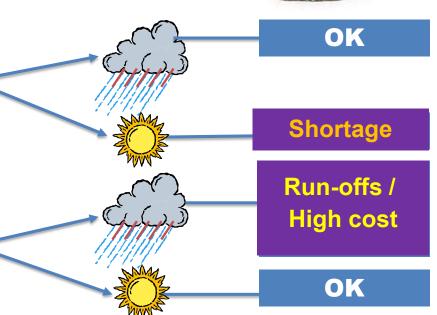


New dilemma for the Operator



Use water
Save
thermal generation

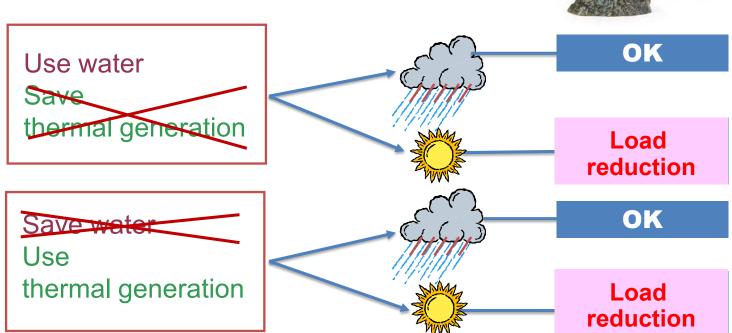
Save water
Use
thermal generation





New dilemma for the Operator





At the present moment, the Operator has no option to save.



Thank you!



Telefone: (55-31) 3506-5024

Fax: (55-31) 3506-5025

Email: ri@cemig.com.br

Website: http://ri.cemig.com.br





















Cemig D:

Distribution Tariff Adjustment 2014



Belo Horizonte, May 26, 2014

Presented by: Maura Galuppo



















Cemig D: The 2014 Adjustment Index* decision

2014 Adjustment	%
Economic Readjustment Index	11.91%
Financial Components	4.41%
Adjustment Index including Financial Components	16.33%
Financial Components, previous year	-1.57%
Average effect	14.76%

Revenues Composition - R\$ mn	2013	2014	Change, 2012–13	Weighted
Portion A	5,479	6,318	15.33%	9.65%
Portion B	3,226	3,423	6.11%	2.26%
Economic revenue	8,705	9,742		11.91%
Financial components	211	394		16.33%



^{*} Tariff Adjustment Index = IRT (Índice de Reajuste Tarifário).



Electricity purchase

Type of contract	GWh	%	R\$ mn	%	R\$/MWh
CCEARs (Regulated market)	5,763	17.9%	870	16.9%	150.93
Itaipu	6,374	19.8%	837	16.3%	131.30
Quotas	7,368	22.9%	242	4.7%	32.89
Thermal	8,968	27.9%	2,742	53.4%	305.75
Other	1,233	3.85%	133	2.6%	107.82
Proinfa	640	2.0%	0	0%	0
'Bilateral' contracts	1,703	5.3%	321	6.2%	188.55
Total	32,049	100%	5,145	100%	160.53

Rationale behind total changes:

- Terms of certain current electricity contracts.
- Higher dispatching from thermal plants at higher costs.
- Spot market price ('PLD') increase.







Differences: 29 vs. 16%

Item	29.74%	16.33%	Weight
CDE account	R\$ 638 mn	R\$ 194 mn	5%
Electricity purchase – average PLD	R\$ 740.00/MWh	R\$ 590/MWh	4%
CVA, January	R\$ 212 mn	0	3%

• The regulator opted to transfer costs to the next tariff adjustment.



The 2015 Tariff Adjustment Index

Significant adjustment in 2015 due to:

- •Payment of the Regulated Market account, in 24 months.
 - Tariff charge.
 - High expenses associated with involuntary exposure and high availability contracts.
 - Interest rate: CDI Rate + 1.9 % p.a.
- •Electricity component of CVA high due to electricity expenses in 2014.
 - Hydrology risk of quotas.
 - The A–0 Auction.







Regulatory agenda

- Renewal of Cemig D (Distribution) concession
- Decisions on cash reimbursements from the Treasury by consumers
- 4th Tariff Review Cycle
- Tariff Flag System
- Classification of low-income consumer criteria



Thank you!

Investor Relations

Telefone: (55-31) 3506-5024

Fax: (55-31) 3506-5025

Email: ri@cemig.com.br

Website: http://ri.cemig.com.br

















XIX Encontro Anual CEMIG-APIMEC

Distribution and Sales (DDC) Business Unit

Cemig D – Technical Responses to the Regulatory Framework

Belo Horizonte, May 26, 2014 Presented by: Ronaldo Gomes de Abreu





















Balance of Distribution Business

Sustainable maximization of the economic and financial results, supported by rigorous compliance of its regulatory requirements:

Sustainable financial results



Compliance with regulatory requirements





Balance in management (operations & risks)



Complying with Provisional Measure 579/2012 and Third Cycle Tariff Review

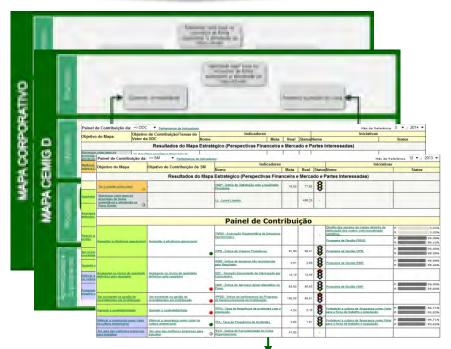
Themes discussed and prioritized in managing the distribution company:

Technical losses
Non-technical losses
Delinquency
Operational Efficiency withTariff Coverage
Investment focus on Capital Renumeration and Depreciation
Other Revenues
Market Projections and Revenues
Concession Clients' Satisfaction
Expenses not recognized in the Tariff
Work infrastructure - Buildings, Assets, Systems and Fleet
Organizational Culture Strategy and Workforce
Concession Contract's Economic Financial balance (short and medium-term)
Research and Development, and Energy Efficiency
Availability and quality of the information provided to the regulator
Asset Renewal Policy and Quality Requirements Compliance of Cemiq D





Mission, Vision, Values, and the Long-Term Strategic Plan; Strategic guidelines

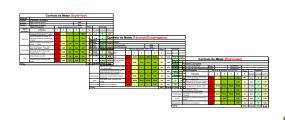


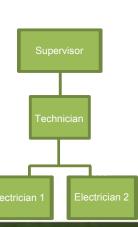
Contribution Panel for Executive Board, General Managers and Managers of Distribution/Sales

Contracting of Management 's Targets



Contribution/Contracting of Teams' Targets







Theme: Investment focus on Capital Remuneration and Depreciation

Seek greater efficiency in investments through:

- ➤ Integrated planning among all Distribution process, following regulatory limits and financial/economic balance.
- Permanent assessment and risk management.
- > Analysis impact seeking investments that will contribute to operational cost reductions.
- > Seeking group's synergies, highlighting the work done with **Light** to standardize technical specifications and acquisitions of equipment and materials.



Investment focus on Capital Renumeration and Depreciation

Realized and planned investments examples:

Investments made in 2013 of approx. R\$ 0.9 billion

- > Construction, expansion, overhaul/updating and improvements in 20 distribution substations (157 MVA);
- > Expansion and strengthening of 310 km of distribution lines;
- > Works to modernize remote control in 60 substations;
- > Expansion and strengthening 2,396 km of distribution network;
- ➤ Installation of 12,300 transformers in the distribution network; and
- ➤ Connection of 280,000 new consumers.

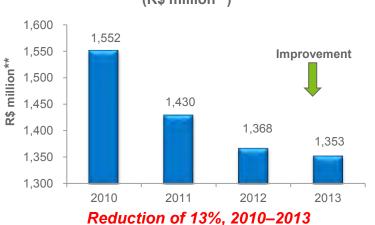
Investments planned for 2014–17 of approx. R\$ 3.0 billion

- > Construction, expansion, overhaul and improvements in 63 distribution substations (556 MVA);
- > Expansion and strengthening 868 km of distribution lines;
- > Expansion and strengthening 10,087 km of distribution network;
- >Improvement of service to 147 municipalities with the 'Energia En Dobro' ('Twice the Energy')
 Program; and
- > Connection of one million new consumers.



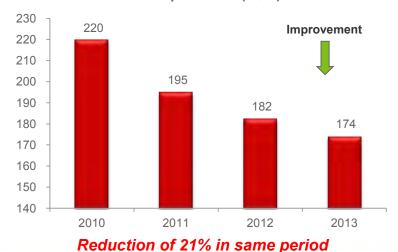
Operational Efficiency within the Tariff Structure



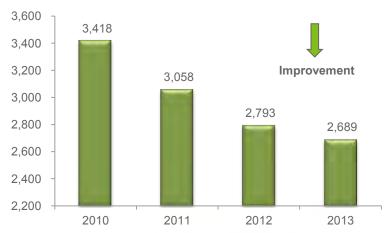


- PMSO: Personnel, Materials, Sales & Others.
- ** (Constant June 2013 R\$)

PMSO per Client (R\$**)



PMSO per km of network (R\$**)





Operational efficiency within the Tariff Structure

Substations evolution:



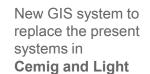
System operation support software



Novo SCADA



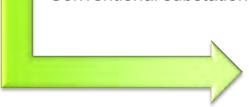
New Scada System



Evolution with sustainability



Conventional substation



- > Up to 60% reduction of occupied area
- Reduction of implementation time
- Higher reliability

GIS Substation

New *Centro 2* Substation, Belo Horizonte



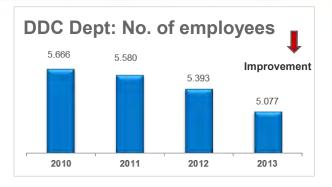


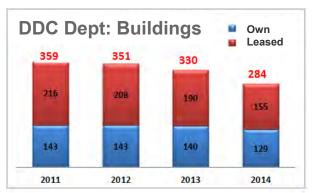


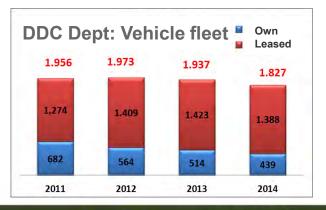
Operational efficiency within the Tariff Structure

Initiatives:

- Optimization in 2013 of the Executive Board organizational structure, 18% reduction in managerial positions, and declining from 71 to 58 with savings of R\$ 5.7 million/year;
- ➤ Optimization of own staff structure, reducing own personnel by 10% between 2011 and 2013, through the simplification and automation of processes, centralization of activities, and voluntary retirement program;
- Optimization of Buildings Infrastructure, reducing owned buildings by 10%, and rented buildings by 28% between 2011 and 2014; and
- Modernization and optimization of owned and leased vehicle fleet, and reducing the number of vehicles by 7% between 2011 and 2014.



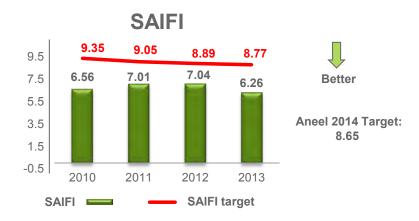






Asset Renewal Policy and Quality Compliance with Cemig D Requirements





SAIDI and SAIFI: Average improvement (reduction) of 13.11% between 2012-2013



'X Factor' reduction and positive adjustment in 'Portion B' of approx. R\$ 20 million (2014).



Compensation reduction of 20% below 2013 and of 33% (R\$ 12 million) below 2012

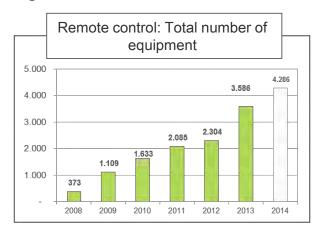


Asset Renewal Policy and Quality Compliance with Cemig D Requirements

Initiatives:

➤ Investments of approximately R\$ 4.0 billion in past five years – highlighting:

- Renovation of high, medium and low voltage assets;
- Interconnection works for greater operational flexibility;
- · Doubling feeds in key municipalities; and
- 50% expansion in remote-controlled equipment (automatic network restart), contributing to reduce outage time;

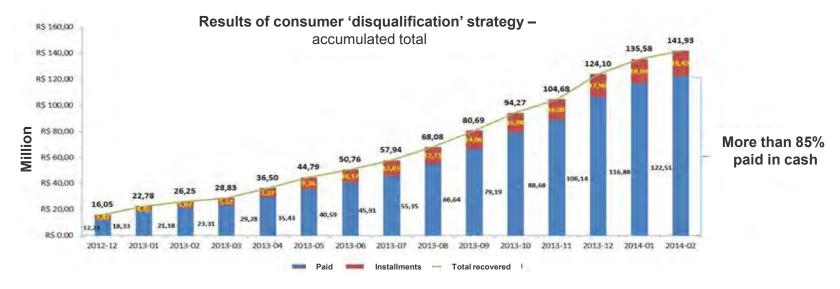


- Systematic, segmented pruning of trees in contact with the network in urban areas;
- Improvements in procedures at the Operations Center, increasing productivity, and reducing average service response time; and
- Improvements in support software for operation system.





New system for client 'disqualification' increasing to R\$ 141.93 million in 2013 (86% paid at sight).



- ➤ More intense administrative collection, recovering R\$ 17.3 million in 2013.
- Improvement in selection of inspection targets of consumer units:
 - Productivity increase of 488% (kWh/inspection, and R\$/inspection).
 - Electricity recovery of R\$ 25 million in 2013.







^{*} IASC = Aneel Consumer Satisfaction Index.



Concession Clients' Satisfaction



CLIENT SERVICE CHANNELS





Theater of Light (Teatro da Luz)





A Cemig cada vez mais próxima de você. Cemig: ever closer to you.

Cemig in Schools





Thank you!



Telefone: (55-31) 3506-5024

Fax: (55-31) 3506-5025

Email: ri@cemig.com.br

Website: http://ri.cemig.com.br



















The Igarapé Thermal Plant



Juatuba, May 27, 2014

Presented by: Roni Diniz







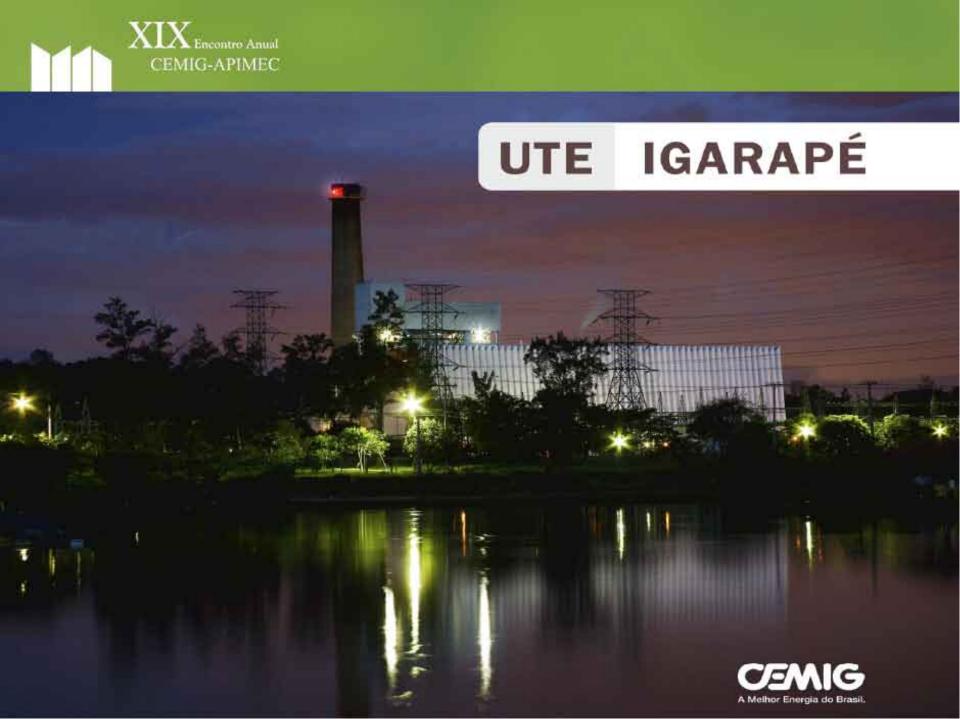










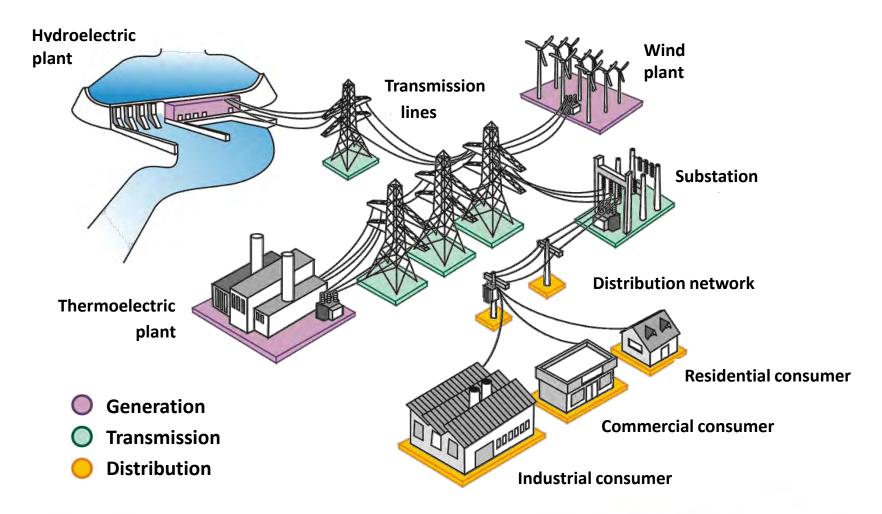


Schedule for May 27, 2014

- Reception at UTE plant
- Presentation
 - Electricity generation options
 - Feature of Igarapé plant
 - Capital expenditure
 - Staff inforamtion
 - Financial information
- Plant Site Visit 9.30 to 11 a.m.



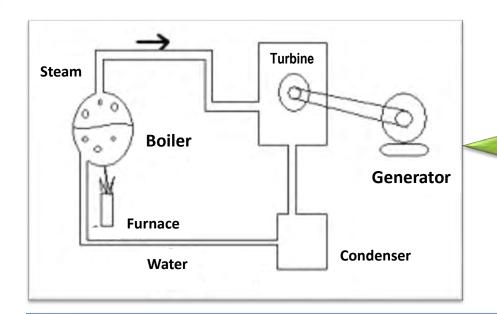
Electricity industry: Sources and distribution







Igarapé thermal plant characteristics



• Fuel: Heavy fuel oil

Consumption: 30 ton/hour

Steam output: 410 ton/hour

Temperature: 540° C

Pressure: 132 kgf/cm²

The thermal plant produces energy from the heat generated by burning fuels and other sources of heat.

The Igarapé plant burns heavy fuel oil (known in Brazil as OC 1A).

Pressure of steam from heated water move, which drives a generator.

Igarapé thermal plant characteristics

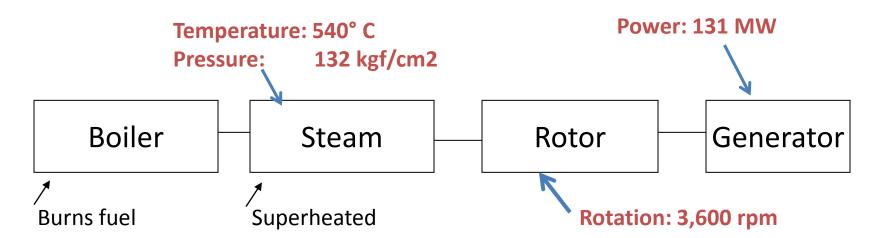
Installed generation capacity: 131 MW

N° of units:

Start of operation: July 31, 1978

Concession: August 13, 2024

Physical guarantee: 71.3 MW





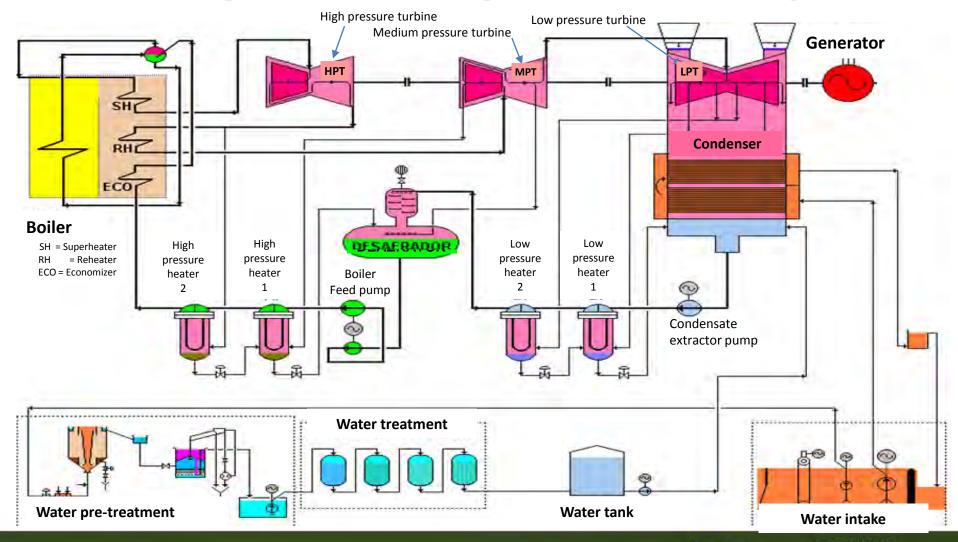
people.

Importance to the Brazilian Grid

The plant is dispatched when Brazil's reservoirs are at critical levels.
It supplies power in the winter to neighboring countries (Uruguay, Argentina).
It supplies reactive power to Cemig's system when the synchronous motors of the <i>Neves</i> and <i>Taquaril</i> substations are in maintenance, and also to the national grid at demand peaks (increase of active power transmission capacity – bus voltage).
It supplies power to the grid in the event of accidents (e.g. transmission line towe falls).
131 MW (installed capacity) – At maximum load Igarapé suppplies 900,000 homes (average consumption 145 kWh/mh) – it serves approximately 3.6 million

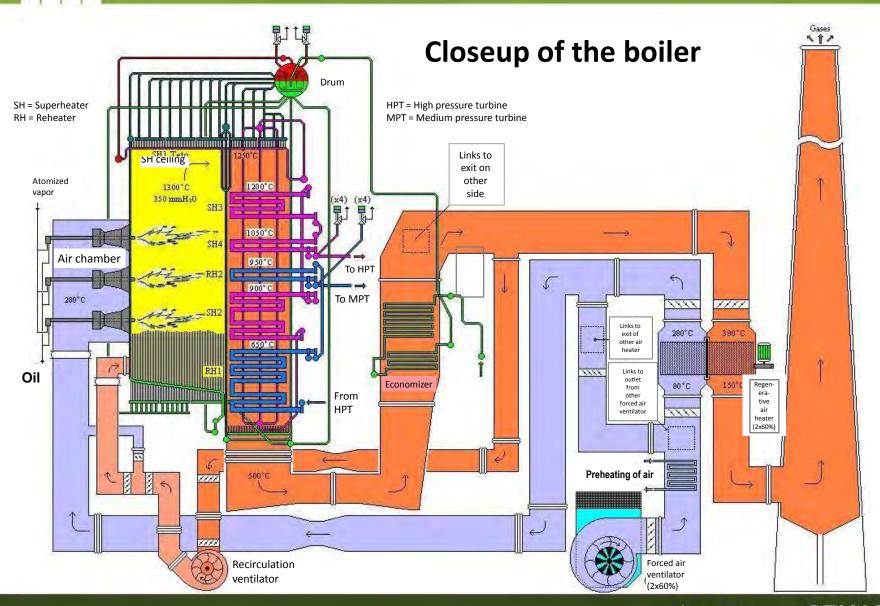


Steam turbine generator with Regenerative Rankine Cycle





Igarapé thermal plant characteristics



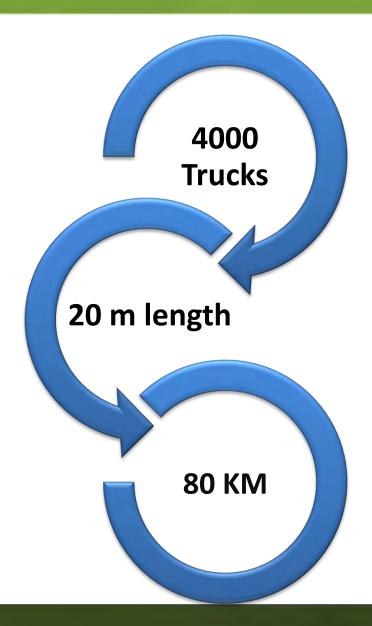


Fuel delivery









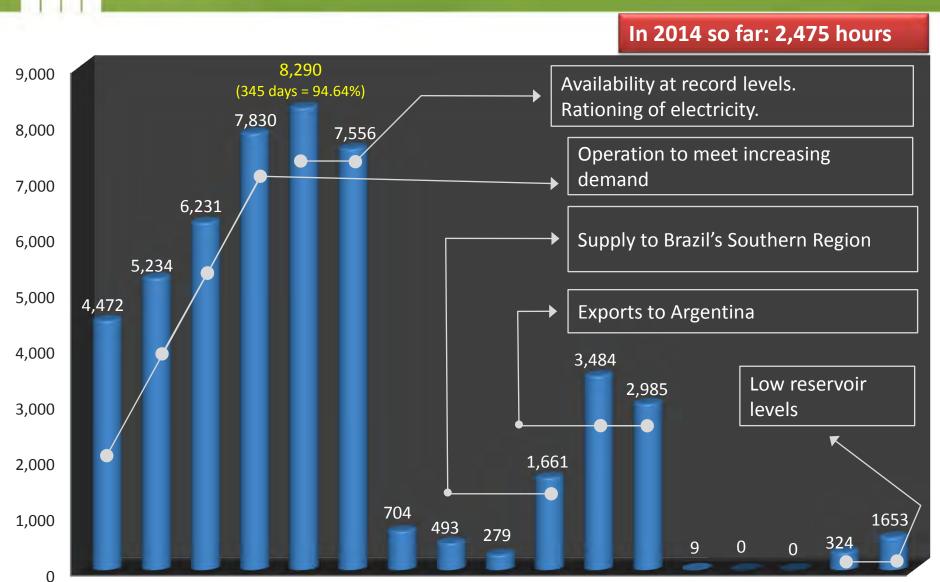


Demineralized water: Water-free minerals is used for steam generating processes.

	Demineralized water	Drinking water
PH	5.5 to 7.0	7.0 to 8.5
Conductivity (μS/cm)	< 2.0	< 3,000
Silica (mg/ml)	< 0.02	< 130



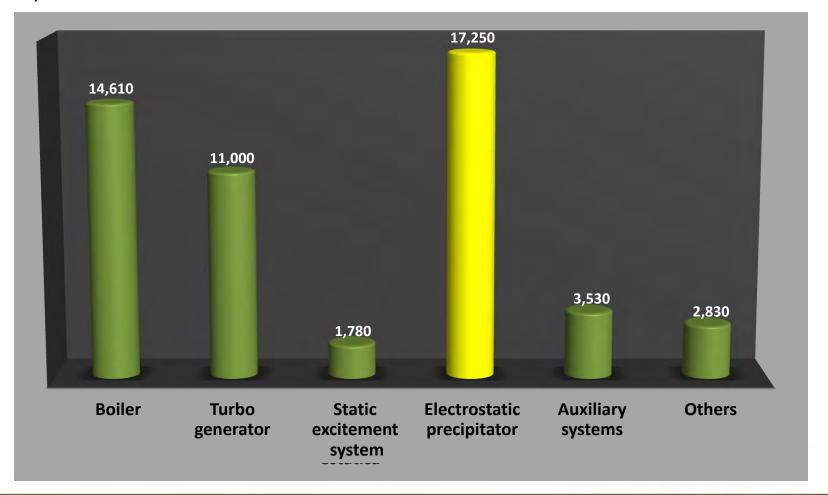
Igarapé – operational history: 1997–2013





Capital expenditure investment

☐ Revitalization – Board Spending Decision (CRCA) 028/2012: Of the budgeted amount of R\$ 51,000,000, R\$ 32,472,783 have already been invested as of November 2013 and capitalized in December 2013.





Electrostatic precipitator: similar operating unit installed in European plant





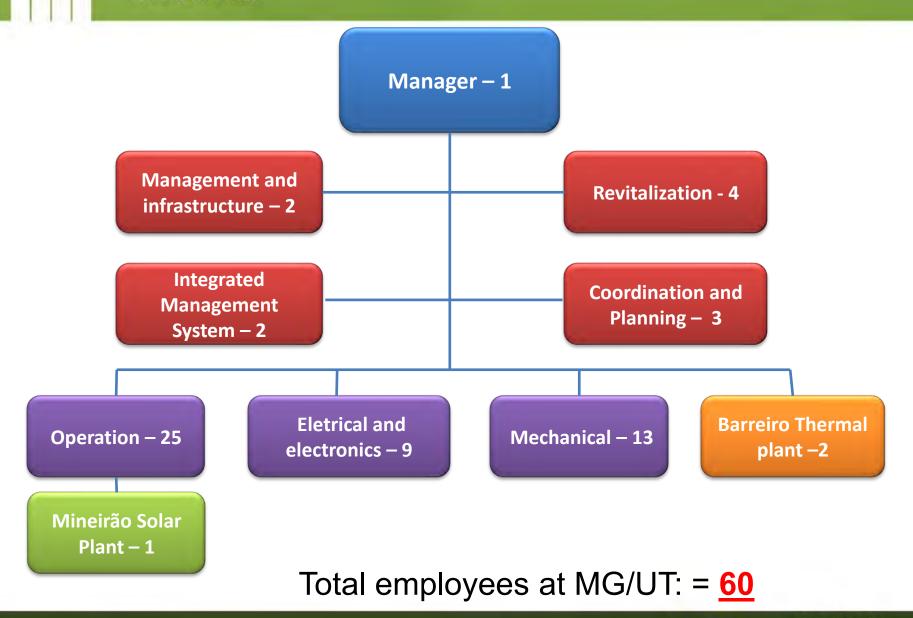
Igarapé: electrostatic precipitator construction













Fixed

staff

Current headcount: 163 people

Unit staff: 59

Conservation and cleaning: 13

Property security: 11

Rejem: 06

MPC: 12

Hamon: 62

Contractors:
Variable
number of
people
depending on
works





Igarapé Thermal Plant 2014	
Expected figures, Jan. 23 – May 23, 2014	
REVENUE / EXPENSE	R\$
Estimated expected revenue	228,310,982
Pasep tax – 1.65%	1,799,895
Cofins tax – 7.6%	8,290,424
RGR levy - 2.5%	5,707,775
Net profit	212,512,889
Fuel oil / Diesel (consumed)	119,026,308
Material (Chemical products, H2)	200,142
Overtime (maintenance)	138,126
Maintenance (overhauls)	1,866,113
Corporate income tax (25%)	22,820,550
Social contribution tax (9%)	8,215,398
OVERALL TOTAL	60,246,252
Credit for ICMS tax (based on loss of	14,997,315
30% of the 18% recoverable)	
Total	75,243,566

Highlights:

- > Start of operation: Jan. 23, 2014
 - CVU: R\$ 645.30 / MWh
 - PLD*: R\$ 410.67/MWh
 - Revenue: PLD + ESS** =
 Variable Unit Cost (CVU)
- Calculated at the close of May 23,2014
 - CVU: R\$ 761.76/MWh
 - PLD: R\$ 822.83/MWh
 - Revenue = PLD
 - * PLD = Spot price; ** ESS = System Service Charge





XIX Encontro Anual CEMIG-APIMEC

Thank you!



Telefone: (55-31) 3506-5024

Fax: (55-31) 3506-5025

Email: ri@cemig.com.br

Website: http://ri.cemig.com.br





















The Gas Division (DGA)

Belo Horizonte, May 26, 2014

Presented by: José Carlos De Mattos











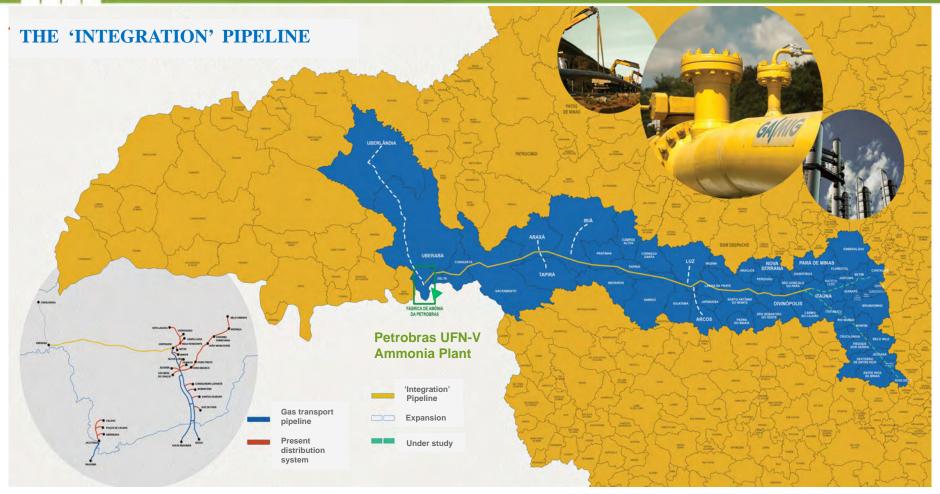




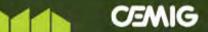




The 'Integration' Gas Pipeline: Natural gas for CEMIG-APIMEC Minas Gerais's Center-West and the Minas Triangle

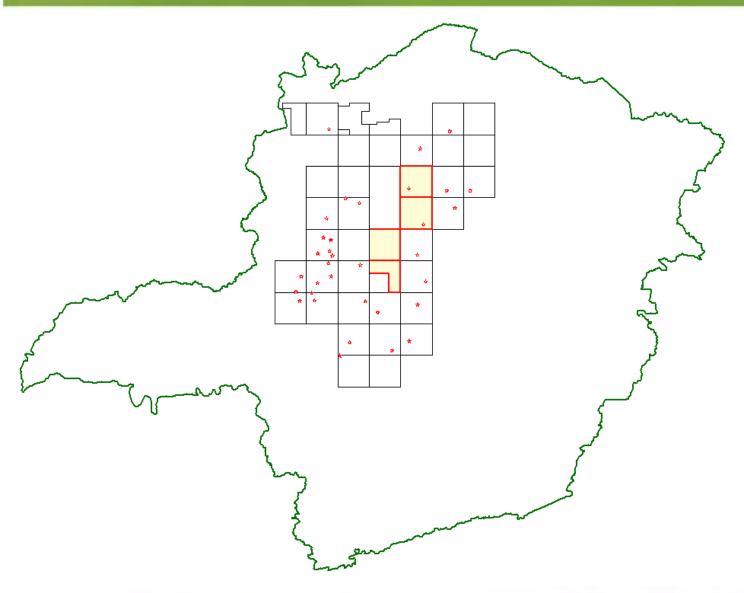


- Completion scheduled to coincide with the startup of Nitrogen Fertilizers Unit ('UFN-V') November 2016.
- Planned investment: Approximately R\$ 2 billion.
- ❖ Gas pipeline: Length of approx 500km and a capacity of 3 million m³/day.
- Largest gas distribution pipeline in Brazil.





The São Francisco Basin







Growth path



Concession

Residential and Commercial

Develop from wholesale to retail

Virtual pipeline State penetration

Overcome obstacles imposed by the size of Minas Gerais State Natural gas vehicle

Greater environmental benefits with savings for end user The 'Integration' Pipeline

Center-West Upper Paranaíba Minas Triangle

Natural Gas exploration in the São Francisco Basin





Comparison: Brazil, Argentina and the USA

USA:

Growth in natural gas production (billions of m³ / year):

2003: 565 (In Brazil: 10) 2013: 725 (In Brazil: 18)

Production of shale gas (billions of m³ / year):

2000: 402013: 360

In 2000, 27,001 wells were drilled in the USA (the lowest annual total until 2013). In 2008 49,385 wells were drilled. In February 2014 the USA had 1,156,870 wells "in production".

Investments in shale gas in 2008–2012: US\$ 133.7 billion – 20% of this was foreign investment.

ARGENTINA:

Vaca Muerta Formation: Total of 200 wells by end of 2014.

Current daily production (April 2014): 19,000 boe (The formation has production of oil and gas – both are expressed in barrels of oil equivalent. If this production were all gas, it would be 3.2 million m³/day.)

Investments in 2013: US\$ 2.17 billion. Expected to increase by 50% in 2014.

BRAZIL:

Total number of wells drilled in Brazil from 1922 to Dec. 31, 2013: 27,305

São Francisco Basin

- 34 exploratory wells drilled.
- 27 wells with indications of gas.





Thank you!

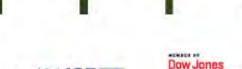


Telefone: (55-31) 3506-5024

Fax: (55-31) 3506-5025

Email: ri@cemig.com.br

Website: http://ri.cemig.com.br



















Making Processes More Efficient

Integrated Logistics of Materials and Transportation of Special Cargo



Belo Horizonte, May 26, 2014
Presented by: Frederico Pacheco de Medeiros











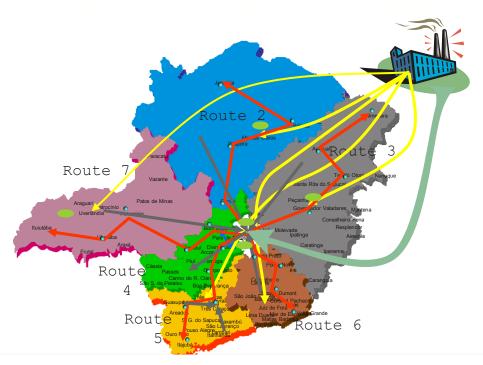








Making operation processes more efficient: Integrated logistics of materials and transportation of special cargo

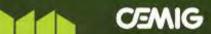


- Reception logistics: Transport equipment from factories to distribution centers and subcontractors (Purchases made CIF)
- Distribution logistics: Transport equipment for construction contractors, maintenance and expansion of the electrical system of the company
- Reverse logistics for materials (end-of-works materials)
- Warehouse / storeroom logistics unloading, processing, storage, safeguarding, separation, loading, shipping

Fleet equipment logistic challenges at Cemig

- ✓ Approx. 160 Cemig employees (2011)
- √ 242 hired Contractors (2011)
- √ 35 management contractors dedicated to logistics processes
- ✓ Building infrastructure of approx 283,000 m², with low vertical warehouse space
- ✓ Annual traffic of approx. 22,500 tons of materials and 65,000 electrical poles
- ✓ Fleet of forklifts with high depreciation level
- ✓ Use of cargo vehicles with no age limit

COMMITMENT TO AN EFFICIENT LOGISTICS PROCESS

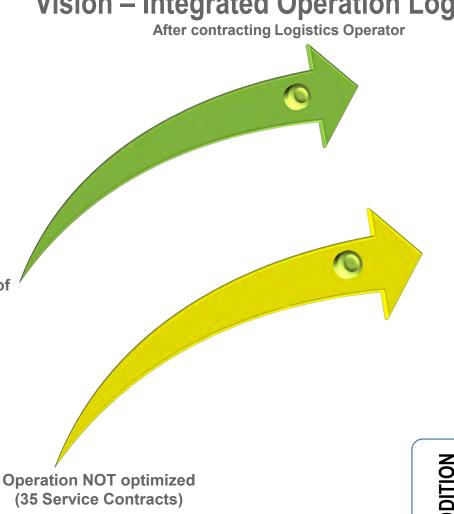




Effective adjustment of own Employees (160

employees)

Vision – Integrated Operation Logistics



Integrated Operation Logistics Management (26 Employees)





Integrated Logistics Operation (01 Contract)

ADDITION OF VALUE

Management **Price**

Service Level



Adding Value – Logistics Operator

Post - implementation of Logistics Operator

Value Levers

Reduction in cost / year

Integrated Operation Logistics

Strategy

- Efficiency in the occupation of storage area;
- Minimization of Cemig's overhead cost;
- Increased productivity:
- Improved service level;
- Largest Company with greater know-how in logistics solutions:
- Greater flexibility and response to unplanned demands;
- Rapid replacement of technical / infrastructure staff;
- Reduced investment in logistics infrastructure;
- Responsible for inventory accuracy;
- Obtaining multiple services into a single contract;
- Focus on core business.

39%

Previous efficiency

Delivery time 15 days **Process efficiency improvement**

46 %

Required efficiency

Delivery time 7 days





Thank you!



Telefone: (55-31) 3506-5024

Fax: (55-31) 3506-5025

Email: ri@cemig.com.br

Website: http://ri.cemig.com.br



















Department of Institutional Relations and Communication



Belo Horizonte, May 26, 2014 Presented by: Luiz Henrique Michalick



















CEMIG'S 2014 RATE ADJUSTMENT CAMPAIGN





> Strategy to combat congressman's campaign against Cemig





Cemig é punida por maquiar investimentos

COMEÇA 3.0 CICLO DE REVISÃO TARIFÁRIA DA CEMIG PARTICIPE! ENVIE SEU PROTESTO PARA E-MAIL ap002_2013rv@aneel.gov.br

VELITON PRADO

TERREO • PROTOCOLO GE Google Blogs e Notícias

FAX: (61) 2192-8839 E CARTAS P

PARA CANARA

INFORMATIVO DA EANGADA DE DEFUTADOS FEDERAIS DO PARTIEO DOS TRABALHADORES

Cemig usa dinheiro público para fazer campanha mentirosa

En cangonita optinizional na teienzilo, spile e noi irreserva (origazilini Erregilini se Mano Beria (errigi), estatul matricale pla operano de 1781 en autha, enba in poemo felendi origonoribilizado pelo soronalo de 11,76% nos tartico de erregia deletia do consumidares minimo. O anteciconello que ocrapolinio de conminimo. O anteciconello que ocrapolinio de con-

rentativos delegente a populojda cam foliais propaganilas. Camo se nilei bastesse querei so apropalei des programos fudensis inpuisatedas en aliints, optio os secones textem taposteria gara a quverno ledenal a cultipa pale cumenta no contro de fuir^a, diz a texta, estalmado pale periodiamis del pernido en Minos, departado delar Camba.

A note estatua que a pueblos de paces 20% de sumente na cente porpu pelos venimenlacilhen nomemo-posidio en apes componibicamentos levos de ES, 1 Bilhiles em 2013. O designo Ministro Paces (F. Hall habites nomemo es expopando de resulta-"Note é a primeira vez que a fieniri, faz loca. Tindo-se de uma composita descalida e mentinas, que uso econos publicas por las se dispute política, deman Predic, que en demantra enferge ao Mantelian Orlica por esta por política. Vestima Predic associales azraben que acultando a tualidad por esta por política. Vestima Predictamento a procieda azraben que acultando a tualidad por tentas imposibre o esquete.

questa tetra, a de aboil de buil

A ENERGIA MAIS CARA DO BRASIL TERÁ REAJUSTE MÉDIO DE 16,33% (Mas, devolver os R\$ 11 Bilhões que nos roubaram.... tsss.. tss.. neca de catibiriba)

É mais um absurdo escancarado!!!!

Agora, vamos à robalheira:

Dep. Weliton Prado quer que Cemig devolva o que foi pago a mais pelos consumidores e em dobro em todas as cobranças a mais



In 2013, Cemig began to mitigate criticisms and provide clarification to its consumers



The 2013 Tariff Adjustment



2014:

Strategy implementation to present further details to the public

- Press conference; internal publication to employees
- Information disclosure through social networks
- New campaign on rates



The 2014 Tariff Adjustment





Conflict

- The PT (Workers' Party) filed a legal complaint against
 Cemig to remove the campaign off air.
- The Minas Gerais Regional Electoral Appeal Court refused to grant an injunction.
- The federal government entered the dispute with a campaign to combat Cemig's campaign.





XIX Encontro Anual CEMIG-APIMEC

Thank you!

Investor Relations

Telefone: (55-31) 3506-5024

Fax: (55-31) 3506-5025

Email: ri@cemig.com.br

Website: http://ri.cemig.com.br

















