

# 3<sup>rd</sup> QUARTER 2017



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3Q17

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REPORT

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# 1. HIGHLIGHTS



Consolidated **EBITDA** for the third quarter of 2017 (3Q17) reached **US\$174.0** million, 42% higher than the EBITDA of US\$122.5 million in the third quarter of 2016 (3Q16). The higher EBITDA is mainly explained by higher revenues from: (1) ordinary activities resulting from an increase in sales to unregulated and regulated customers; (2) higher hydro generation due to an improvement in hydrological conditions; and (3) energy and capacity sales in the spot market in Chile. The higher revenues were partially offset by a higher cost associated with higher generation based on gas to meet the higher sales to customers. This higher cost, in turn, was partially offset by lower energy and capacity purchases in the spot, and by a lower diesel consumption. In cumulative terms, EBITDA as of September 2017 (Sep17) reached US\$487.3 million compared to US\$443.9 million as of September 2016 (Sep16). The increase is mainly explained by the same reasons that explain the variations in quarterly terms.

**Non-operating Income** in 3Q17 recorded **losses of US\$19.1 million**, which compares favorably with the loss of US\$21.3 million in 3Q16. The lower loss in the quarter is mainly explained by: (1) the positive effect of the variation of the CLP/US\$ exchange rate over temporary balance accounts in local currency during the quarter; (2) lower Financial expenses, explained by the lower outstanding financial debt during the period due to debt prepayments for ~US\$500 million in June and July of 2016; and (3) higher financial income due to a higher balance in Cash and Cash Equivalents and higher returns on these investments. These effects were mainly offset by higher expenses recorded in the line "Other Profit (Losses)", which mainly correspond to the tax expense on the emissions of thermal power plants (Law 20,780), which become effective as of Jan17. In cumulative terms, non-operating income as of Sep17 recorded losses of US\$41.0 million vs. losses of US\$72.1 million as of Sep16. The lower loss is mainly explained by: (1) a non-recurring income recorded during 2Q17 for US\$23.4 million, as a result of the recognition of a deferred tax asset in our Fenix affiliate; (2) lower financial expenses, explained by the lower outstanding financial debt during the period explained above; and (3) higher financial income due to a higher balance in Cash and Cash Equivalents and higher returns on these investments. These lower expenses were mainly offset by higher expenses recorded in the line "Other Profit (Losses)", which mainly correspond to the tax expense outstanding financial debt during the period explained above; and (3) higher financial income due to a higher balance in Cash and Cash Equivalents and higher returns on these investments. These lower expenses were mainly offset by higher expenses recorded in the line "Other Profit (Losses)", which mainly correspond to the tax expense on the emissions of thermal power plants (Law 20,780).

3Q17 tax expenses amounted to US\$25.2 million, higher when compared to tax expenses of US\$15.8 million in 3Q16. The higher tax expenses are mainly explained by the higher profit before taxes recorded on this quarter and to the increase in the tax rate from 24% to 25.5%.

Tax expenses in cumulative terms as of Sep17 reached US\$57.8 million, higher when compared with the US\$48.1 million presented in Sep16, mainly explained by the same reasons that explain the variations in quarterly terms.

The Company recorded in 3Q17 a **net income of US\$70.2 million**, higher than the net income of US\$28.4 million of 3Q16. The higher profit is mainly explained by the increase in EBITDA recorded during the quarter. In **cumulative terms**, the result shows a net income of US\$209.1 million, higher than the net income of US\$155.9 million recorded in the same period of the previous year, explained by the same reasons that explain the variations in quarterly terms and due to the recognition of a deferred tax asset in our Fenix affiliate.

Fenix's **EBITDA** totalized **US\$13.5** million in 3Q17, lower than the EBITDA of US\$16.1 million recorded in 3Q16. The lower EBITDA is mainly explained by the lower revenues from ordinary activities, as a result of higher sales in the spot market at lower marginal costs. This effect was mainly offset by higher sales to regulated and unregulated customers, lower energy and capacity purchases in the spot market and higher revenues from transmission tolls.

In cumulative terms, Fenix's EBITDA as of Sep17 reached US\$35.8 million vs. US\$41.9 million as of Sep16. The decrease is mainly explained by: (1) lower revenues from ordinary activities due to the higher sales in the spot market at lower marginal costs; and (2) higher gas consumption due to the higher generation of the quarter with this fuel. These effects were mainly offset by: (1) lower energy and capacity purchases in the spot market and (2) higher sales to unregulated customers.



At 3Q17 closing, financial investments amounted to US\$775.8 million, and net debt was US\$919.7 million.

**La Mina Hydroelectric Project** (34 MW): The construction of this power plant finalized in April 2017 and is currently injecting energy into the system. The first synchronization of units 1 and 2 was carried out in May according to plan, and due to the lower level of water flows, it is estimated that the commercial operation will begin during the fourth quarter of 2017.

In September 2017, Colbún was selected to list for the first time in the Dow Jones Sustainability Index Emerging Markets (DJSI Emerging Markets), in its 2017 version, also maintaining its presence in the DJSI Chile. It is worth mentioning that Colbún is the only power-generation company of Chilean capitals that listed in this index.

In September 2017, Colbún was awarded a 30-year land concession in a tender conducted by the Ministry of National Assets for the development, construction and operation of a wind farm located approximately 70 kilometers northeast of Taltal. This project called "Horizonte" wind farm considers 607 MW of installed capacity. The concession establishes a study period of up to 48 months, while the construction phase will contemplate a term of up to 36 months.

In October 2017, Colbún signed an agreement for the supply of electric power for 630 GWh per year over a 10-year term with CMPC for its various industrial facilities. Given the above, during the last few months, Colbún has subscribed medium-term supply contracts with unregulated customers for approximately 1,600 GWh and is currently under negotiations to finalize new agreements.

In September 2017, Fenix finalized its first bond issuance in the international market for US\$340 million, with the purpose of refinancing its long-term debt whose maturity corresponded to February 2020. The issuance was made in accordance with Rule 144A and Regulation S, obtaining a coupon rate of 4.317%, in a period of 10 years and amortizable structure.

On its part, in October 2017, Colbún issued a new series of bonds in the international market for US\$500 million (Rule 144A/Regulation S), with a maturity of 10 years, obtaining a coupon rate of 3.95%. The proceeds from this issuance were used to refinance bonds of the same type that expire in 2020 at a 6.00% rate.

# Table 1: Consolidated Summary Chile & Peru (US\$ million)

Accumulated Figures		Summary	Quarterly Figures		Var %	
Sep-16	Sep-17	Summary	3Q16	3Q17	Ac/Ac	Q/Q
1,067.0	1,159.6	Revenues	334.3	384.0	<b>9</b> %	15%
443.9	487.3	EBITDA	122.5	174.0	10%	42%
155.9	209.1	Net Income	28.4	70.2	34%	147%
1,120.3	919.7	Net debt	1,120.3	919.7	(18%)	(18%)
8,268	8,362	Sales of contracted energy Chile (GWh)	2,781	2,811	1%	1%
2,452	2,311	Sales of contracted energy Peru (GWh)	661	809	(6%)	22%
8,947	9,636	Total generation Chile (GWh)	2,412	3,058	8%	27%
2,370	2,977	Total generation Peru (GWh)	907	1,188	26%	31%



# 2. PHYSICAL SALES AND GENERATION BALANCE

# 2.1 Physical Sales and Generation Balance in Chile

Table 2 shows a comparison between physical energy sales and power generation in 3Q16, 3Q17 and cumulative as of Sep16 and Sep17.

Accumulated Figures		Sales	Quarterly	Figures	Var %	
Sep-16	Sep-17	Sales	3Q16	3Q17	Ac/Ac	Q/Q
9,184	9,409	Total Physical Sales (GWh)	2,781	3,027	2%	<b>9</b> %
4,888	4,813	Regulated Clients	1,621	1,580	(2%)	(3%)
3,381	3,548	Unregulated Clients	1,160	1,231	5%	6%
916	1,048	Sales to the Spot Market	0	216	14%	-
1,571	1,601	Capacity Sales (MW)	1,611	1,615	2%	0%
Accumulat	cumulated Figures Quarterly		Quarterly	Figures	Var	- %
Sep-16	Sep-17	Generation	3Q16	3Q17	Ac/Ac	Q/Q
8,947	9,636	Total Generation (GWh)	2,412	3,058	8%	27%
3,614	3,741	Hydraulic	988	1,404	4%	42%
2,799	3,395	Thermoelectric - Gas	559	846	21%	51%
302	198	Thermoelectric - Diesel	94	32	(34%)	(66%)
2,166	2,221	Thermoelectric - Coal	743	747	3%	1%
65	81	Wind Farm - Punta Palmeras	28	29	23%	5%
433	3	Spot Market Purchases (GWh)	433	3	(99%)	(99%)
483	1,045	Sales - Purchases to the Spot Market (GWh)	(433)	213	117%	-

 Table 2: Physical Sales and Generation in Chile

Physical withdrawals during 3Q17 reached 3,027 GWh, increasing by 9% compared to the same period of the previous year, mainly explained by sales to the spot market recorded during the quarter and due to higher sales to unregulated customers. On its part, generation of the quarter increased by 27% compared to 3Q16, mainly due to higher hydroelectric generation and higher cost efficient thermal generation based on natural gas (287 GWh Q/Q), partially compensated by a decrease in diesel generation (62 GWh Q/Q).

Spot market balance during the quarter recorded net sales of 213 GWh, compared to net purchases of 433 GWh recorded in 3Q16. During the quarter, 100% of Colbún's commercial commitments were supplied with costefficient base generation (hydro, coal and natural gas).

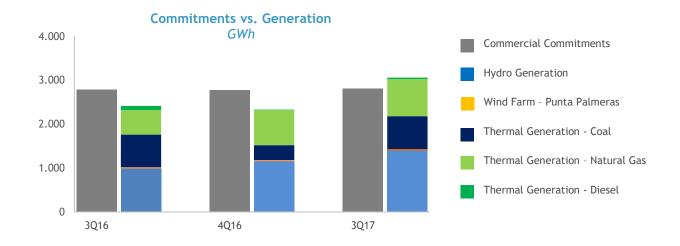
In cumulative terms, physical withdrawals and the total generation of Colbún in Sep17 reached 9,409 GWh and 9,636 GWh respectively, increasing by 2% and 8% compared to Sep16. The higher physical sales of the period are mainly explained by higher sales to unregulated customers and higher sales in the spot market. On its part, the higher generation is explained by the higher efficient thermal generation based on natural gas and a higher hydroelectric generation.

Spot market balance recorded net sales of 1,045 GWh as of Sep17, higher than the net sales of 483 GWh recorded in the same period of the previous year.



**Generation mix in Chile:** the hydrological year (Apr17-Mar18) that started in Apr17, in cumulative terms, has presented slightly improved levels of water flows in the main hydrological basins of the SIC compared to the previous period. On its part, rainfalls during 3Q17 have exceeded the values registered in the second quarter. As an example, the exceedance probability of accumulated flows during the hydrological year (Apr17-Mar18), by basin from north to south is: Aconcagua: 60%; Armerillo-Maule: 97%; Abanico: 93%; Canutillar: 50%; El Laja: 88%. This has resulted in a mild increase in hydraulic generation compared to the same period in 2016 and a consequent decrease in the marginal costs of the system.

During the 3Q17 the SIC recorded an increase in hydroelectric generation (4,990 GWh in 3Q17 vs. 4,375 GWh in 3Q16) compared to the same period of 2016, given that the current hydrological year has presented higher levels of water flows in the main basins of the SIC, and due to a larger dispatch of the system reservoirs. The increase in hydroelectric and intermittent solar and wind power generation of the system resulted in a decrease in thermal generation, were coal-fired thermoelectric generation decreased from 4,567 GWh in 3Q16 to 3,894 GWh in 3Q17. On its part, generation based on natural gas and diesel decreased from 2,720 GWh in 3Q16 to 2,414 GWh in 3Q17; and 301 GWh in 3Q16 to 209 GWh in 3Q17, respectively. The average marginal cost measured in Alto Jahuel decreased by 13% from US\$67/MWh in 3Q16 to US\$58/MWh in 3Q17.





# 2.2 Physical Sales and Generation Balance in Peru

Table 3 presents a comparison of physical energy sales, and power generation in 3Q16, 3Q17 and cumulative as of Sep16 and Sep17 from Fenix.

 Table 3: Physical Sales and Generation in Peru

Accumulat	ted Figures	Sales Quarterly Figures		Va	r %	
Sep-16	Sep-17	Sales	3Q16	3Q17	Ac/Ac	Q/Q
2,794	3,001	Total Physical Sales (GWh)	931	1,163	7%	25%
2,452	2,311	Costumers under Contract	661	809	(6%)	22%
342	809	Sales to the Spot Market	271	355	137%	31%
562	558	Capacity Sales (MW)	563	556	(1%)	(1%)

Accumulated Figures			Quarterly Figures		/ Figures	Var %	
Sep-16	Sep-17	Generation	3Q16	3Q17	Ac/Ac	Q/Q	
2,370	2,977	Total Generation (GWh)	907	1,188	26%	31%	
2,370	2,977	Thermoelectric - Gas	907	1,188	26%	31%	
311	93	Spot Market Purchases (GWh)	46	0	(70%)	-	
31	716	Sales - Purchases to the Spot Market (GWh)	224	355	-	58%	

**On a quarterly basis**, Physical withdrawals from customers under contract in 3Q17 reached 809 GWh, 22% higher when compared to 3Q16, mainly due to the beginning of bilateral supply contracts and higher withdrawals of customers under contract. On its part, Fenix's thermal gas-power generation reached 1,188 GWh in 3Q17, increasing by 31% compared to 907 GWh in 3Q16. The higher generation of the quarter is mainly explained by the higher availability of the power plant compared to 3Q16 due to the gas transportation limitation, the disconnection of Fenix during July and September 2016. This implied that 100% of the commitments were supplied with own generation and that the spot market balance reached a level of net sales of 355 GWh in 3Q17 vs. net sales of 224 GWh in 3Q16.

**In cumulative terms,** physical withdrawals to customers under contract as of Sep17 reached 2,311 GWh down by 6% compared to the same period of the previous year, mainly explained by the expiration of bilateral shotterm contracts. On its part, Fenix thermal gas-power generation reached 2,977 GWh as of Sep17, up by 26% compared to Sep16, also explained by the same reasons as in quarterly terms. This implied that as of Sep17, 100% of the commitments were supplied with own generation and net sales were made in the spot market for 716 GWh, compared to net sales in the spot market for 31 GWh as of Sep16.

**Generation mix in Peru:** During 3Q17, hydrological conditions were more humid than the third quarter of the previous year. Mantaro river basin, which supplies the main hydroelectric complex in Peru, CH Mantaro and CH Restitución (900 MW) presented a hydrological condition with a probability of exceedance of 27% at the end of 3Q17 vs. 81% in 3Q16.

Hydroelectric generation in the National Interconnected System (SEIN for its acronym in Spanish) increased by 10% compared to the same period of 2016, mainly due to the commissioning of new hydro power-plants for 1,000 MW during the period August - December 2016 and to the humid hydrological conditions presented during the period. On its part, thermoelectric generation decreased by 9% during 3Q17 compared to 3Q16 given the increase in existing hydroelectric generation of the system.



# **3.** INCOME STATEMENT ANALYSIS

Table 4 presents a summary of the Consolidated Income Statement in 3Q16, 3Q17 and cumulative as of Sep16 and Sep17 for Chile and Peru.

Table 4: Income Statement (	(US\$	million)
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Accumulate	ed Figures		Quarterly	Figures	Va	
Sep-16	Sep-17		3Q16	3Q17	Ac/Ac	Q/Q
1,067.0	1,159.6	OPERATING INCOME	334.3	384.0	9%	15%
565.0	599.6	Regulated Customers Sales	185.2	200.9	6%	8%
285.3	304.6	Nonregulated Customers Sales	94.0	109.6	7%	17%
75.0	93.8	Energy and Capacity Sales	8.6	20.2	25%	134%
139.7	142.4	Transmission Tolls	45.9	46.9	2%	2%
2.0	19.2	Other Operating Income	0.7	6.5	876%	831%
(542.5)	(594.2)	RAW MATERIAL AND CONSUMABLES USED	(185.5)	(182.8)	10%	(1%)
(134.1)	(143.2)	Transmission Tolls	(43.4)	(48.5)	7%	12%
(65.6)	(30.8)	Energy and Capacity Purchases	(41.9)	(12.3)	(53%)	(71%)
(188.0)	(261.4)	Gas Consumption	(47.1)	(69.3)	39%	47%
(38.4)	(28.6)	Diesel Consumption	(13.1)	(5.0)	(26%)	(62%)
(54.4)	(59.6)	Coal Consumption	(18.8)	(21.8)	10%	16%
(62.0)	(70.6)	Other Operating Expenses	(21.2)	(26.0)	14%	23%
524.5	565.4	GROSS PROFIT	148.8	201.2	8%	35%
(49.6)	(53.8)	Personnel Expenses	(17.5)	(19.1)	9%	9%
(31.0)	(24.3)	Other Expenses, by Nature	(8.8)	(8.0)	(22%)	(9%)
(167.9)	(179.5)	Depreciation and Amortization Expenses	(57.0)	(59.5)	7%	4%
276.0	307.8	OPERATING INCOME (LOSS)(*)	65.6	114.5	12%	75%
443.9	487.3	EBITDA	122.5	174.0	10%	42%
7.6	8.5	Financial Income	2.1	3.2	12%	50%
(83.0)	(62.3)	Financial Expenses	(23.5)	(21.8)	(25%)	(7%)
5.0	4.1	Exchange rate Differences	0.0	2.7	(18%)	-
4.5	3.1	Profit (Loss) of Companies Accounted for Using the Equity Method	1.4	1.3	(30%)	(10%)
(6.1)	5.6	Other Profit (Loss)	(1.4)	(4.4)	(191%)	220%
(72.1)	(41.0)	NON-OPERATING INCOME	(21.3)	(19.1)	(43%)	(11%
204.0	266.9	PROFIT (LOSS) BEFORE TAXES	44.3	95.4	31%	116%
(48.1)	(57.8)	Income Tax Expense	(15.8)	(25.2)	20%	<b>59</b> %
155.9	209.1	PROFIT (LOSS) AFTER TAX	28.4	70.2	34%	147%
153.1	194.4	PROFIT (LOSS) OF CONTROLLER	29.4	70.1	27%	1 <b>39</b> %
2.8	14.7	PROFIT (LOSS) ATTRIBUTABLE TO MINORITY INTEREST	(0.9)	0.1	422%	-

(\*): The subtotal for "OPERATING INCOME" presented herein, differs from "Profit (loss) from operating activities" line presented in the Financial Statements. This is explained by a change in taxonomy dictated by the SVS, by means of which the concept of "Other Profit (loss)", which in the case of Colbún are only non-operating items, was incorporated as an operating item in the Financial Statements.

Table 5: Exchange Rates at Closing

Exchange Rates	Sep-16	Dec-16	Sep-17
Chile (CLP / US\$)	658.02	669.47	637.93
Chile UF (CLP/UF)	26,224.30	26,347.98	26,656.79
Peru (Pen / US\$)	3.40	3.36	3.27

# 3.1. Operating Income Analysis in Chile



Table 6 presents a summary of Operating Income and EBITDA in 3Q16, 3Q17 and cumulative as of Sep16 and Sep17. The major accounts and/or variations will be analyzed below.

#### Table 6: EBITDA Chile (US\$ million)

Accumulate	ed Figures		Quarterly	Figures	Var	%
Sep-16	Sep-17		3Q16	3Q17	Ac/Ac	Q/Q
907.4	1,013.5	OPERATING INCOME	285.3	332.5	12%	17%
475.1	508.7	Regulated Customers Sales	156.9	169.6	7%	8%
267.0	293.5	Nonregulated Customers Sales	87.8	106.3	10%	21%
54.2	82.9	Energy and Capacity Sales	2.8	14.4	53%	412%
109.8	112.7	Transmission Tolls	37.4	36.8	3%	(2%)
1.3	15.7	Other Operating Income	0.4	5.4	-	-
(437.7)	(490.2)	RAW MATERIAL AND CONSUMABLES USED	(154.8)	(147.2)	12%	(5%)
(106.9)	(116.3)	Transmission Tolls	(35.8)	(38.8)	9%	8%
(51.3)	(27.7)	Energy and Capacity Purchases	(38.8)	(12.2)	(46%)	(69%)
(133.5)	(194.1)	Gas Consumption	(29.4)	(45.0)	45%	53%
(38.4)	(28.6)	Diesel Consumption	(13.1)	(5.0)	(26%)	(62%)
(54.4)	(59.6)	Coal Consumption	(18.8)	(21.8)	10%	16%
(53.2)	(63.9)	Other Operating Expenses	(18.9)	(24.4)	20%	30%
469.7	523.3	GROSS PROFIT	130.5	185.3	11%	42%
(45.3)	(49.7)	Personnel Expenses	(16.1)	(17.7)	10%	10%
(22.5)	(22.1)	Other Expenses, by nature	(8.0)	(7.0)	(2%)	(11%)
(144.0)	(155.6)	Depreciation and Amortization Expenses	(49.0)	(51.7)	8%	5%
258.0	295.9	OPERATING INCOME (LOSS)(*)	57.4	108.8	15%	<b>90</b> %
401.9	451.5	EBITDA	106.5	160.6	12%	51%

(\*): The subtotal for "OPERATING INCOME" presented herein, differs from "Profit (loss) from operating activities" line presented in the Financial Statements. This is explained by a change in taxonomy dictated by the SVS, by means of which the concept of "Other Profit (loss)", which in the case of Colbún are only non-operating items, was incorporated as an operating item in the Financial Statements.

**Operating income from ordinary activities for 3Q17 amounted to US\$332.5 million**, a 17% increase compared to 3Q16, mainly due to: (1) higher sales to unregulated and regulated customers; (2) higher revenues from capacity and energy sales in the spot market; and (3) higher "Other Operating Income" mainly due to the portion of the tax on emissions of thermal power plants transferred to unregulated customers, which began to be effective as of Jan17. These effects were partially offset by lower transmission tolls revenues explained by lower tariff revenues received in 2017 compared to the same period of the previous year, due to the effect of annual liquidation of tolls and lower hydro generation during the quarter.

**In cumulative terms**, operating income from ordinary activities as of Sep17 reached US\$1,013.5 million, up by 12% compared to Sep16. The higher income of the period is mainly explained by the same reasons that explain the variations in quarterly terms, together with higher revenues from transmission tolls, resulting from an increase in the single charge to regulated customers due to a base price decree published in July 2016.

**Raw materials and consumables used decreased 5% on a quarterly basis**, mainly explained by lower energy and capacity purchases in the spot market and by lower diesel consumption due to the improved hydrological conditions compared to the same period of 2016. The lower expenses of the quarter were partially offset by: (1) higher gas consumption due to the increase in generation with this fuel; and (2) higher "Other Operating Expenses" corresponding to the portion of the tax on emissions associated to unregulated customers.



In cumulative terms, raw materials and consumables used as of Sep17 amounted to US\$490.2 million, 12% higher when compared to Sep16. The higher expenses are mainly explained by: (1) higher gas consumption; (2) higher "Other Operating Expenses" corresponding to the portion of the tax on emissions associated to unregulated customers; and (3) higher transmission tolls costs. The higher expenses were mainly offset by lower energy and capacity purchases in the spot market and by a lower diesel consumption.

**On a quarterly basis, EBITDA increased 51%** compared to the same quarter last year, reaching US\$160.6 million. The increase is mainly explained by: (1) higher revenues from ordinary activities; (2) lower raw materials and consumables used; and (3) higher hydro generation due to an improvement in hydrological conditions.

**In cumulative terms**, EBITDA increased from US\$401.9 million as of Sep16 to US\$451.5 million as of Sep17. The higher EBITDA is mainly explained by higher physical sales and higher margin contributions resulting from a more efficient generation mix as of Sep17 compared to the same period of 2016.

## 3.2. Operating Income Analysis Peru

Table 7 presents a summary of Operating Income and EBITDA of Fenix in 3Q16, 3Q17 and cumulative as of Sep16 and Sep17. The major accounts and/or variations will be analyzed below.

Accumulate	d Figures		Quarterly	Figures	Va	r %
Sep-16	Sep-17		3Q16	3Q17	Ac/Ac	Q/Q
159.6	146.1	OPERATING INCOME	49.1	51.5	(8%)	5%
89.9	91.0	Regulated Customers Sales	28.3	31.3	1%	11%
18.4	11.1	Nonregulated Customers Sales	6.2	3.3	(39%)	(46%
20.8	10.9	Sales to Other Generators	5.8	5.7	(48%)	(1%)
29.9	29.6	Transmission Tolls	8.5	10.1	(1%)	1 <b>9</b> %
0.7	3.5	Other Operating Income	0.3	1.0	437%	100%
(104.9)	(104.0)	RAW MATERIAL AND CONSUMABLES USED	(30.8)	(35.7)	(1%)	16%
(27.2)	(26.8)	Transmission Tolls	(7.5)	(9.6)	(1%)	28%
(14.4)	(3.0)	Energy and Capacity Purchases	(3.2)	(0.1)	(79%)	<b>(95</b> %
(54.5)	(67.4)	Gas Consumption	(17.7)	(24.3)	24%	37%
(8.8)	(6.8)	Other Operating Expenses	(2.4)	(1.6)	(23%)	(32%
54.8	42.1	GROSS PROFIT	18.3	15.8	(23%)	(14%
(4.2)	(4.1)	Personnel Expenses	(1.4)	(1.4)	(2%)	0%
(8.6)	(2.2)	Other Expenses, by Nature	(0.8)	(1.0)	(75%)	15%
(23.9)	(23.9)	Depreciation and Amortization Expenses	(8.0)	(7.8)	0%	(2%)
18.1	11.9	OPERATING INCOME (LOSS)	8.1	5.6	(34%)	(31%
41.9	35.8	EBITDA	16.1	13.5	(15%)	(16%

#### Table 7: EBITDA Peru (US\$ million)

**Operating income from ordinary activities during 3Q17 reached US\$51.5 million**, increasing by 5% compared to 3Q16, mainly due to: (1) higher regulated customer's sales due to the beginning of bilateral supply contracts; and (2) higher revenues from transmission tolls. The increases were partially offset by lower sales from other generators.

In cumulative terms, operating revenues as of Sep17 reached US\$146.1 million, down by 8% compared to Sep16, explained by lower sales to other generators and lower sales to regulated customers due to the expiration of



bilateral short-term contracts. These decreases were mainly offset by higher sales to unregulated customers and by higher other revenues.

Raw materials and consumables used increased by 16% compared to the same quarter from the previous year. The increase compared to 3Q16 is mainly explained by higher gas consumption, due to the higher generation of the quarter and by higher transmission tolls expenses.

In cumulative terms, raw materials and consumables used totalized US\$104.0 million as of Sep17, remaining in line compared with the same period of the previous year.

Fenix's **EBITDA** totalized **US\$13.5** million in 3Q17, lower than the EBITDA of US\$16.1 million recorded in 3Q16. The lower EBITDA is mainly explained by the lower revenues from ordinary activities, as a result of higher sales in the spot market at lower marginal costs. This effect was mainly offset by higher sales to regulated and unregulated customers, lower energy and capacity purchases in the spot market and higher revenues from transmission tolls.

**In cumulative terms,** Fenix's EBITDA as of Sep17 reached US\$35.8 million vs. US\$41.9 million as of Sep16. The decrease is mainly explained by: (1) lower revenues from ordinary activities due to the higher sales in the spot market at lower marginal costs; and (2) higher gas consumption due to the higher generation of the quarter with this fuel. These effects were mainly offset by: (1) lower energy and capacity purchases in the spot market and (2) higher sales to unregulated customers.

# 3.3. Consolidated Non-Operating Income Analysis

Table 8 shows a summary of the consolidated non-operational income in 3Q16, 3Q17 and cumulative as of Sep16 and Sep17 for Chile and Peru. Below, the major accounts/variations will be analyzed below.

 Table 8: Consolidated Non-Operational Income (US\$ million)

Accumulate	ed Figures		Quarterly Figures		Var	· %
Sep-16	Sep-17		3Q16	3Q17	Ac/Ac	Q/Q
7.6	8.5	Financial Income	2.1	3.2	12%	50%
(83.0)	(62.3)	Financial Expenses	(23.5)	(21.8)	(25%)	(7%)
5.0	4.1	Exchange rate Differences	0.0	2.7	(18%)	-
4.5	3.1	Profit (Loss) of Companies Accounted for Using the Equity Method	1.4	1.3	(30%)	(10%)
(6.1)	5.6	Other Profit (Loss)	(1.4)	(4.4)	(191%)	220%
(72.1)	(41.0)	NON-OPERATING INCOME	(21.3)	(19.1)	(43%)	(11%)
204.0	266.9	PROFIT (LOSS) BEFORE TAXES	44.3	95.4	31%	116%
(48.1)	(57.8)	Income Tax Expense	(15.8)	(25.2)	20%	<b>59</b> %
155.9	209.1	PROFIT (LOSS) AFTER TAX	28.4	70.2	34%	147%
153.1	194.4	PROFIT (LOSS) OF CONTROLLER	29.4	70.1	27%	13 <b>9</b> %
2.8	14.7	PROFIT (LOSS) ATTRIBUTABLE TO MINORITY INTEREST	(0.9)	0.1	422%	(108%

**Non-operating Income** in 3Q17 recorded **losses of US\$19.1 million**, which compares favorably with the loss of US\$21.3 million in 3Q16. The lower loss in the quarter is mainly explained by: (1) the positive effect of the variation of the CLP/US\$ exchange rate over temporary balance accounts in local currency during the quarter; (2) lower Financial Expenses, explained by the lower outstanding financial debt during the period due to debt prepayments for ~US\$500 million in June and July of 2016; and (3) higher financial income due to a higher balance in Cash and Cash Equivalents and higher returns on these investments. These effects were mainly offset



by higher expenses recorded in the line "Other Profit (Losses)", which mainly correspond to the tax expense on the emissions of thermal power plants (Law 20,780), which became effective as of Jan17.

In cumulative terms, non-operating income as of Sep17 recorded losses of US\$41.0 million vs. losses of US\$72.1 million as of Sep16. The lower loss is mainly explained by: (1) a non-recurring income recorded during 2Q17 for US\$23.4 million, as a result of the recognition of a deferred tax asset in our Fenix affiliate; (2) lower financial expenses, explained by the lower outstanding financial debt during the period explained above; and (3) higher financial income due to a higher balance in Cash and Cash Equivalents and higher returns on these investments. These lower expenses were mainly offset by higher expenses recorded in the line "Other Profit (Losses)", which mainly correspond to the tax expense on the emissions of thermal power plants (Law 20,780).

**Income tax expenses** amounted to US\$25.2 million in 3Q17, higher when compared to tax expenses of US\$15.8 million in 3Q16. The higher tax expenses are mainly explained by the higher profit before taxes recorded on this quarter and to the increase in the tax rate from 24% to 25.5%.

Tax expenses in cumulative terms as of Sep17 reached US\$57.8 million, higher when compared with the US\$48.1 million presented in Sep16, mainly explained by the same reasons that explain the variations in quarterly terms.



# 4. CONSOLIDATED BALANCE SHEET ANALYSIS

Table 9 presents an analysis of the Balance Sheet's relevant accounts as of December 31, 2016 and September 30, 2017. Subsequently the main changes will be analyzed.

Table 9: Consolidated Balance Sheet Main Accounts for Chile and Peru (US\$ million)

	Dec-16	Sep-17	Var	Var %
Current assets	947.6	1,070.7	123.1	13%
Non-current assets	5,875.0	5,826.1	(48.8)	(1%)
TOTAL ASSETS	6,822.6	6,896.8	74.2	1%
Current liabilities	360.1	279.4	(80.6)	(22%)
Non-current liabilities	2,672.7	2,662.3	(10.4)	(0%)
Total net equity	3,789.8	3,955.1	165.2	4%
TOTAL LIABILITIES AND NET EQUITY	6,822.6	6,896.8	74.2	1%

**Current Assets:** Reached US\$1,070.7 million, increasing by 13% compared to Dec16 closing, mainly explained by an increase in cash and cash equivalents resulting from the flows of operating activities.

**Non-current Assets:** Recorded US\$5,826.1 million at the end of Sep17, slightly decreasing compared to the existing balance as of Dec16 due to the depreciation of the period of fixed assets, partially offset by the capex of the period.

**Current Liabilities:** Amounted to US\$279.4 million at Sep17 closing, a decrease of US\$80.6 million compared to Dec16 closing. This variation is mainly explained by the payment of provisioned dividends in Dec16, for US\$60.4 million. This effect was partially offset by higher fuel purchases due to the higher thermal generation.

**Non-current Liabilities:** Totalized US\$2,662.3 million at Sep17 closing, in line compared to Dec16.

**Total Net Equity:** The Company posted a net worth of US\$3,955.1 million, which meant an increase of 4% compared to Dec16. The increase is mainly explained by the net income of the period, for the reasons explained above.

**Debt Analysis:** Financial debt reached US\$1,695.5 million, in line compared to Dec16. On its part, financial Investments totalized US\$775.8 million, increasing by 16% compared to Dec16, mainly explained by cash flows from operations. Given the above, Net Debt totalized US\$919.7 million. On its part, EBITDA LTM (last 12 months) remained in line compared to 2016 closing.

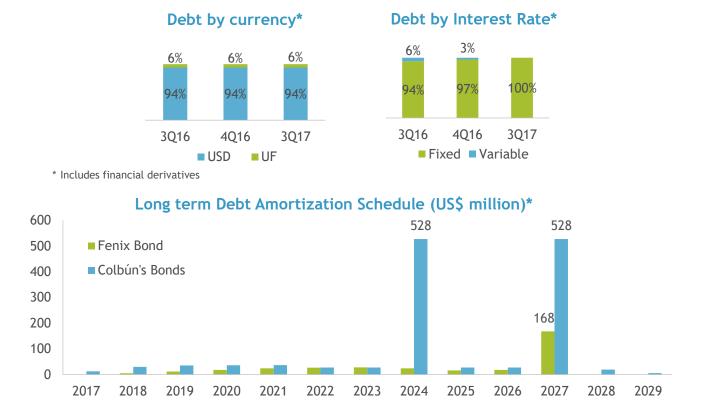
Net Debt/EBITDA LTM ratio decreased from 1.7 times at Dic16 closing to 1.4 times at Sep17 closing.

The average maturity life of Colbún's long-term financial debt is 5.4\* years.

The average USD long-term financial debt interest rate is 5.22%\*.

(\*) Figures as of Sep17, therefore, do not include the effects of the issuance of a new series of bonds in the international market for US\$500 million, at a coupon rate of 3,95%.





(\*) The debt amortization profile incorporates the refinancing of the international bond with maturity in 2020, through the issuance of a new series of bonds in the market in October 2017, for a 10-year term.

Table 10: Main Debt Items (US\$ million)

	Dec-16	Sep-17	Var	Var %
Gross Financial Debt*	1,710.0	1,695.5	(14.5)	(1%)
Financial Investments**	667.0	775.8	108.8	16%
Net Debt	1,043.0	919.7	(123.3)	(12%)
EBITDA LTM	601.7	645.2	43.4	7%
Net Debt/EBITDA LTM	1.7	1.4	(0.3)	(18%)

(\*) Includes an international bond of US\$340 million and financial leasing for US\$15.3 million, both associated to Fenix without recourse to Colbún.

(\*\*)The account "Financial Investments" presented includes the amount associated to time deposits that, for having an investment term of more than 90 days, are recorded as "Other Current Financial Assets" in the Financial Statements.



# 5. CONSOLIDATED FINANCIAL RATIOS

A comparative table of consolidated financial indicators is presented below. Balance Sheet financial indicators are calculated at the specified date and Income Statement ratios including the cumulative result over the last 12 months as of the date indicated.

#### Table 11: Financial Ratios

Ratio	Dec-16	Sep-17	Var %
Current Liquidity: Current Assets in operation / Current Liabilities in operation	2.63	3.83	45.6%
Acid Test: (Current Assets - Inventory - Advanced Payments) / Current Liabilities in operation	2.51	3.66	46.0%
Debt Ratio: (Current Liabilities in Operation + Non-current Liabilities) / Total Net Equity	0.80	0.74	(7.1%)
Short-term Debt (%): Current Liabilities in operation / (Current Liabilities in operation + Non-current Liabilities)	11.87%	9.50%	(20.0%)
Long-term Debt (%): Non-current Liabilities in operation / (Current Liabilities in Operation + Non-current Liabilities)	88.13%	90.50%	2.7%
Financial Expenses Coverage: (Profit (Loss) Before Taxes + Financial Expenses) / Financial Expenses	3.63	5.04	38.8%
Equity Profitability (%): Profit (Loss) After Taxes. Continuing Activities / Average Net Equity	5.49%	6.66%	21.3%
Profitability of Assets (%): Profit (Loss) Controller / Total Average Assets	2.93%	3.79%	29.2%
Performance of Operating Assets (%) Operating Income / Property, Plant and Equipment, Net (Average)	6.61%	7.31%	10.6%

Income Statement ratios correspond to last 12 months values.

- Average equity: Equity of the current quarter plus equity a year ago divided by two.
- Total assets average: Current total assets plus total assets a year ago divided by two.
- Operational assets average: Current total property, plants and equipment plus total property, plants and equipment a year ago divided by two.



**Current Liquidity** and **Acid Test** reached 3.83x and 3.66x as of Sep17 respectively, increasing when compared to Dec16 by 46%, mainly due to: (1) an increase in current assets, explained by an increase in cash and cash equivalents resulting from operating activities, and (2) the decrease in current operating liabilities resulting from the payment of provisioned dividends in Dec16, for US\$60.4 million.

**Debt Ratio** reached 0.74x as of Sep17, compared with 0.80x as of Dec16. The decrease of 7% is mainly explained by the decrease in current liabilities in operation, as a result of the dividend payments explained above and by the increase in the net equity as a result of the net income recorded during the period.

The percentage of **Short-Term Debt** as of Sep17 was 9.50%, lower than the value of 11.87% measured on Dec16, mainly explained by the decrease in current liabilities in operation as a result of the dividend payments previously explained.

The percentage of Long-Term Debt as of Sep17 was 90.50%, higher than the value of 88.13% obtained on Dec16, mainly explained by the decrease in current liabilities in operation previously explained.

**Financial Expenses Coverage** as of Sep17 was 5.04x, higher than the value of 3.63x obtained on Dec16, due to the higher profit before taxes registered and to the lower financial expenses recorded during the period, mainly explained by the lower outstanding financial debt during the period due to debt prepayments for ~US\$500 million in 2016. The higher profit for the quarter is mainly explained by the higher EBITDA LTM as of Sep17 and by a non-recurring income of US\$23.4 million, previously explained.

Equity Profitability and Profitability of Assets of the quarter totalized 6.66% and 3.79%, increasing when compared to Dec16. The decrease in Equity Profitability is mainly explained by an increase in LTM Net income as of Sep17 compared to Dec16, mainly explained by: (1) higher EBITDA LTM as of Sep17; (2) the non-recurring income recorded explained above; and (3) to an increase in average Net Equity compared to the same period of 2016, mainly due to the retained earnings. On its part, the increase in the Profitability of Assets is mainly explained by the increase in the result of operations.

Performance of Operating Assets of the quarter was 7.31%, increasing compared to the yield obtained in Dec16. The decrease is mainly explained by the lower operating income.



# 6. CONSOLIDATED CASH FLOW ANALYSIS

The Company's Cash Flow is presented in the table below:

Table 12: Cash Flow Summary for Chile and Peru (US\$ million)

Accumulate	d Figures		Quarterly	Figures	Var	- %
Sep-16	Sep-17		3Q16	3Q17	Ac/Ac	Q/Q
1,080.8	667.0	Cash Equivalents, Beg. of Period*	868.1	680.5	(38%)	(22%)
415.7	406.8	Net cash flows provided by (used in) operating activities	108.8	170.4	(2%)	57%
(702.0)	(195.7)	Net cash flows provided by (used in) financing activities	(285.5)	(43.3)	(72%)	(85%)
(183.8)	(105.3)	Net cash flows provided by (used in) investing activities**	(71.6)	(33.7)	(43%)	(53%)
(470.1)	105.8	Net Cash Flows for the Period	(248.3)	93.4	-	-
9.5	3.0	Effects of exchange rate changes on cash and cash equivalents	0.4	2.0	(69%)	346%
620.2	775.8	Cash Equivalents, End of Period	620.2	775.8	25%	25%

(\*)The account "Cash and Cash Equivalents" presented includes the amount associated to time deposits that, for having an investment term of more than 90 days, are recorded as "Other Current Financial Assets" in the Financial Statements.

(\*\*) "Cash Flow from Investing Activities" differs from the Financial Statements because it does not incorporate the amount associated with deposits with maturity over 90 days.

During 3Q17, the Company recorded a **net cash inflow of US\$93.4 million**, compared to the net cash outflow of US\$248.3 million from 3Q16.

**Operating Activities:** During 3Q17 a positive net cash flow of US\$170.4 million was generated, increasing by 57% compared to 3Q16. The increase is mainly explained by lower payments to suppliers in 3Q17. In cumulative terms, a positive net cash flow of US\$406.8 million was generated as of Sep17, in line with Sep16.

**Financing Activities:** Generated a net cash outflow of US\$43.3 million during 3Q17, which compares with 3Q16's net outflow of US\$285.5 million. The higher cash outflow of 3Q16 is mainly associated with financial debt prepayments for US\$250.0 million made during that quarter.

**In cumulative terms**, a net outflow for US\$195.7 million was recorded as of Sep17, lower than the net outflow of US\$702.0 million as of Sep16, mainly due to the financial debt prepayments for ~US\$500 million made during 2016.

**Investing Activities:** Generated a net cash outflow of US\$33.7 million during 3Q17, lower than the outflow of US\$71.6 million in 3Q16. The lower net cash outflow for this quarter was mainly associated with the La Mina project.

In cumulative terms, investing activities generated a net cash outflow of US\$105.3 million as of Sep17, lower when compared to disbursements of US\$183.8 million as of Sep16, mainly explained by the lower investments associated with the completion of the construction of the La Mina project.

# 7. ENVIRONMENT AND RISK ANALYSIS



Colbún S.A. is a generation Company with an installed capacity of 3.901 MW (incorporating 34 MW of the La Mina Hydroelectric power-plant, which as of September 30, 2017 is in the tasting stage, injecting energy into the system), comprised of 2,270 MW in thermal units and 1,630 MW in hydraulic units. The Company operates in Chile's Central Interconnected System (SIC for its acronym in Spanish), with a market share of about 21%. It also operates in Peru's National Interconnected System (SEIN for its acronym in Spanish), where it has a market share of approximately 7%. Both figures measured in terms of installed capacity.

Through its commercial policy, Colbún aims to be a provider of competitive, secure and sustainable energy, with a volume to commit through contracts that allow the Company to maximize the long-term profitability of its asset base, reducing the volatility of its results. These have a structural variability, because they depend on exogenous conditions such as hydrology and fuel prices (oil, natural gas and coal). To mitigate the effect of these exogenous conditions, the Company seeks to contract its generation sources (own or purchased from third parties) with efficient costs with long-term agreements and eventually, if there is any deficit/surplus Colbún may turn to buy/sell energy the spot market at marginal cost.

# 7.1 Medium-Term Outlook in Chile

The hydrological year that began in April 2017 has presented dry hydrological conditions, showing lower rainfall than an average year, as of September 30, the probability of exceedance of the SIC reached 93%. Given this, the energy matrix has continued its operation with higher thermal sources. For this reason, regarding gas supply, the Company signed supply agreements with ERSA and Metrogas for the period 2017-2019. With these contracts the Company has enough natural gas to operate two natural gas combined cycle units for the most part of 1H of each calendar year, period of the year in which generally there is less availability of water resources. There is also the possibility of accessing additional natural gas via spot purchases, allowing the Company to have efficient backup in the case of unfavorable hydrological conditions in the second half of the year.

In this line, on May 24, 2017, the Company subscribed a new contract with ERSA for the supply of natural gas with reserved regasification capacity, to provide operational continuity to the Nehuenco Complex. Subsequently, on July 26, 2017 Colbún and ERSA agreed to modify the contract in order to anticipate its entry into force and expand the volume of regasification capacity originally agreed. With the amendment, the entry into force of the contract will begin to be effective as of January 1, 2018, extending its duration to a term of 13 years. In addition, it was agreed to increase the regasification reserve capacity offered by ERSA, which gives Colbún the option of extending from one to two the combined cycle units of its Nehuenco complex that can operate based on this fuel.

Regarding energy supply contracts, in October 2017, Colbún signed an agreement for the supply of electric power for 630 GWh per year over a 10-year term with CMPC for its various industrial facilities. Given the above, during the last few months, Colbún has subscribed medium-term supply contracts with unregulated customers for approximately 1,600 GWh and is currently under negotiations to finalize new agreements.

The results of the Company for the coming months will be mainly determined by a balanced level between own efficient generation and contract level. Such efficient generation depends on the reliable operation that our plants may have and on hydrological conditions.



# 7.2 Medium-Term Outlook in Peru

The third quarter of 2017 has developed with a humid hydrological condition and with lower rates of demand growth (variation of 1.6% compared to the same period of the previous year).

The future trajectory of marginal costs is mainly subject to the trajectory of demand, hydrology and to changes in commodity prices.

# 7.3 Growth Plan and Long-Term Actions

The Company is seeking for growth opportunities in Chile and in other countries in the region such as Colombia and Peru, in order to maintain a leading position in the power generation industry and to diversify its sources of income in terms of geography, hydrologic conditions, generation technologies, fuel access and regulatory frameworks.

Colbún is seeking to increase its installed capacity, while maintaining a relevant participation in the hydroelectric generation industry, with a thermoelectric and renewable component that allows counting on a safe, competitive and sustainable generation matrix.

In Chile, Colbún currently has several projects under different stages of maturity, including hydro, thermal, projects from variable sources and in a lower degree, transmission line projects.

## Projects under Construction

**Ovejeria PMGD Project (9 MW):** It involves the construction of a photovoltaic plant of the PMGD (for its Spanish acronym) type located in the Metropolitan Region. The installed capacity will be 9 MW, which will allow an average annual generation of approximately 22 GWh/year, energy that will be delivered through an existing line.

In July of this year, the Board of Directors authorized this investment with a starting date of operation no further than the second quarter of 2018. The beginning of the construction is schedule for the end of 2017. The main equipment purchases were made, and it is in process the land cleaning and the construction of the perimeter fence.

## **Projects under Development**

**San Pedro Hydroelectric Project (170 MW):** The project is located 25 km. northeast of Los Lagos, and considers using the water of the homonymous river through a power plant located between the outlet of the Riñihue Lake and the Malihue Bridge. Considering the adjustments included in the project, it will have an estimated flow design of 460 m3/s (+10% with openness) and an approximate installed capacity between 160 MW - 170 MW for an annual generation of 950 GWh under normal hydrological conditions. The operation of the power plant will be such that the level of the reservoir remains virtually constant, which means that the flow downstream of the power plant is not going to be altered by its operation.

In Jun15, the Environmental Impact Assessment (EIA) for the changes to the project was submitted, being initially accepted into process by the Environmental Assessment Service (SEA) of Los Rios Region. However, in Aug15, the Authority decided to early terminate the process due to lack of relevant and essential information. The decision was confirmed after the Company filed an administrative appeal with new information.



Notwithstanding the foregoing, the Company is preparing the background to re-submit the Environmental Impact Study (EIA). In parallel, we continue developing an explicative and clarifying meeting process plan with municipalities, communities, neighborhood, regional authorities, and indigenous communities, among other stakeholders, with the objective to identify the best way to insert this project in the area.

This project considers the San Pedro-Ciruelos transmission line project, which will allow evacuating the power of the San Pedro power plant to the SIC through a 220 kV line and 47 km. length, and will be connected to the Ciruelos substation, located about 40 km northeast of Valdivia.

**Guaiquivilo Melado Project:** The hydroelectric project Guaiquivilo Melado is a complex located in the basins of Guaiquivilo and Melado rivers, in Colbún's municipality, in Linares' province. The project considers a total installed capacity of approximately 316 MW and an average annual generation of approximately 1,629 GWh. The project includes a transmission line of 220 kV to inject energy in the SIC, with a total extension of 90 kilometers from Guaiquivilo power plant to the connection point in S/E Ancoa.

During the third quarter of 2017, the preparation of the Environmental Impact Study and the engineering development of the final adjustments for the projects continuance.

Los Cuartos Project: The hydroelectric project Los Cuartos is located in Biobío river, near San Carlos de Purén locality, about 5 km upstream the intersection with Panamericana Sur highway. This hydroelectric power plant has water rights that allow it to achieve a capacity of approximately 93 MW, with an average annual generation of approximately 511 GWh. The project also considers a 10 kilometers transmission line to connect the power plant with Mulchén substation.

The project is in definition from the point of view of the business to be able to continue its development in the basic engineering stage.

**El Médano Project:** El Médano is a hydroelectric project, which is located next to the La Mina project on the Maule river, in the municipality of San Clemente, approximately 100 km east of the city of Talca. This project considers an installed capacity of 6 MW and an average annual generation of 26 GWh, whose generated energy will be evacuated through the transmission line of CH La Mina. El Médano is conceived as a compact work, which is to say, in a same structure is concentrated the capture, the engine room and the restitution to the river.

During the third quarter of 2017, the development of basic engineering was continued and the preparation of the Environmental Impact Study, which was submitted in July 2017.

**Projects from variable sources:** The electrical regulation requires that a portion of the contracted energy comes from generation sources from variable means, establishing as goal that by 2025, 20% comes from this type of technology. Beyond this regulation, a large increase in competitiveness has been observed, especially in solar and wind generation, including the goal of reaching at least 70% of renewable energies by 2050, as it is very well indicated in the document "Energy 2050: Chilean Energy Policy" prepared by the Ministry of Energy. For what duly complemented by other sources of generation, gives its intermittency or variability, for Colbún it is relevant to grow in these sources of generation through different modalities.

In this context, in 2013 Colbún signed a contract with Comasa for the purchase of renewable attributes and with Acciona Energía for the purchase of energy and attributes generated by the Punta Palmeras wind farm, of 45 MW, located in Canela.



During the first half of 2016 several initiatives were materialized, such as the purchase of part of SunEdison's assets in Chile, which involved the cession of assets from two solar PV solar farms under development for 202 MW, power purchase agreements with regulated customers and in addition, a long-term energy supply contract for 200 GWh per year of solar energy.

Additionally, during the first half of 2016, Colbún awarded an energy supply contract and a purchase agreement for renewable energy attributes for 500 GWh per year with Total SunPower.

In addition to this, during 2017 Colbún is developing a PMGD (Small Mean of Distributed Generation) - photovoltaic project of 9 MW in the Metropolitan Region.

Also in 2017, Colbún was awarded a 30-year land concession in a tender conducted by the Ministry of National Assets for the development, construction and operation of a wind farm located approximately 70 kilometers northeast of Taltal (one of the areas with the best quality of winds for this type of initiatives at national level). This project called "Horizonte" wind farm considers 607 MW of installed capacity and a generation equivalent to the consumption of more than 700 thousand homes. In this sense, the concession establishes a term for the study period of up to 48 months after the signing of the agreement between the parties, while the construction phase will contemplate a term of up to 36 months.

**HidroAysén:** Colbún participates in a 49% ownership of HidroAysén S.A.

Colbún restates that the development of the hydroelectric potential of Aysén Region presents long-term benefits for the country's growth, in order to dispose of a diversified and renewable matrix. Notwithstanding the above, the company has also stated that an initiative with the characteristics of HidroAysén requires to be developed within the framework of an energy policy that has broad national consensus. In that context and considering that the projects developed should add value to the company, Colbún will propose in the corresponding corporate bodies of HidroAysén S.A. the cancelation of the Project and the dissolution of the company.

Notwithstanding the foregoing, we inform that at 2014 closing, Colbún S.A. recorded a provision for the impairment of its participation in HidroAysén S.A. for a total amount of approximately US\$102 million and therefore the dissolution will not have adverse accounting effects that are material.

**Unit II of the Santa María Complex Project (350 MW):** Regarding the development of this project, Colbún has decided to defer the construction of the second unit of the Santa Maria thermoelectric complex as long as market and social conditions are not met to execute the initiative.

## 7.4 Risk Management

## A. Risk Management Policy

The risk management strategy is oriented to safeguard the Company's stability and sustainability, identifying and managing the uncertainty sources that affect or might affect it.

Risk management assumes the identification, measurement, analysis, mitigation and control of the different risks arising from the Company's different management departments, as well as estimating the impact on its consolidated position, follow up and control throughout time. This process involves the intervention of the Company's senior management and risk taking areas.

Tolerable risk limits, metrics for risk measurement and periodicity of risk analysis are policies established by the Company's Board of Directors.



The risk management function is the CEO's responsibility as well as of each division and department, and has the support of the Corporate Risk Management and supervision, monitoring and coordination of the Risk Committee.

#### B. Risk Factors

The activities of the Company are exposed to various risks, which have been classified into electrical business risks and financial risks.

#### **B.1. Electrical Business Risks**

#### **B.1.1. Hydrological risk**

In Chile, 48% of Colbún's power plants are hydro facilities, which are exposed to hydrology conditions.

To comply with its commitments in dry hydrologic conditions, Colbún must operate its combined thermal cycle plants mainly with natural gas purchases or with diesel, or by default operating its back-up thermal plants or even buying energy on the spot market. This situation raises Colbún's costs, increasing earnings variability depending on the hydrological conditions.

The Company's exposure to hydrological risk is reasonably mitigated by a commercial policy that aims to maintain a balance between competitive base load generation (hydro generation in a medium to dry year and thermal coal generation, cost efficient natural gas generation, other renewables cost efficient generation. All properly complemented by other sources of generation given their intermittency and volatility) and commercial commitments. Under conditions of extreme and recurrent drought, a potential shortage of water for refrigeration could affect the generation capacity of the combined cycles, whose impact could be mitigated by the purchase of water from third parties and/or by operating these units in an open cycle, as well as implementing technical solutions in the medium and long term that are being analyzed for the aforementioned combined cycle complex. The plant completed its construction in May 2017 and will be operational from the third quarter of 2017.

In Peru, Colbún owns a combined-cycle power plant and has a commercial policy oriented towards committing such base energy through medium and long-term contracts. The exposure to dry seasons is restricted, since Colbún's operations would only be impacted in the event of potential operational failures that would require the Company to resort to the spot market. Additionally, the Peruvian electrical market presents an efficient thermal supply and availability of natural gas from local sources that backs it up.

## B.1.2. Fuel price risk

In Chile, in situations of low water availability in its hydro power plants, Colbún relies on its thermal plants or purchase energy in the spot market at marginal cost. In these scenarios, there is a risk associated to potential variations in international fuel prices. Part of this risk is mitigated incorporating fuel price indexation on our selling energy contracts. Additionally, in order to reduce fuel price risks there is a hedge program in place with different derivative instruments such as call options and put options to hedge the remaining exposure, if necessary. Otherwise, in case of abundant hydrology, the Company may be in a selling position in the spot market, where the price would be partially determined by the fuel price.

In Peru, the cost of natural gas has a lower dependence to international prices, due to an important domestic production of this hydrocarbon, limiting its exposure to this risk.

Like in Chile, the proportion exposed to variations in international prices is mitigated by indexed formulas in energy sales contracts.



Due to the above, exposure to the risk of changes in fuel prices is largely mitigated.

## **B.1.3.** Fuel supply risks

Regarding liquid fuel supply in Chile, the Company has agreements with suppliers and own storage capacity to ensure adequate reliability in respect to the availability of this type of fuel.

Regarding natural gas supply, in Chile Colbún has medium-term contracts with ENAP and Metrogas. For the long term, Colbún recently signed a new agreement with Enap for the options of supply of liquefied natural gas and reserved regasification capacity - dated May 24 and complemented on July 26 - Effective from 2018 to 2030 that will allow Colbún to access natural gas for the Nehuenco Complex. On its part, in Peru Fenix has long-term contracts with the ECL88 Consortium (Pluspetrol, Pluspetrol Camisea, Hunt, SK, Sonatrach, Tecpetrol and Repsol) and gas transportation agreements with TGP.

Regarding coal purchases for Santa María unit I power plant, new tenders have been undertaken, inviting important international suppliers to bid, awarding the supply contract to well supported and competitive Companies. The above is in line with an early purchasing policy and a stock management policy in order to substantially mitigate any risk of not having this fuel available.

#### **B.1.4. Equipment failure and maintenance risk**

The availability and reliability of Colbún's generating units and transmission facilities are essential to the Company's business. Based on the above, Colbún holds a policy to conduct regular maintenances on its equipment according to the recommendations of its suppliers, and maintains a policy to cover such risks through insurances for its physical assets, including coverage for physical damage and for loss of profit.

#### **B.1.5. Project construction risks**

The development of new generation and transmission projects can be affected by factors such as: delays in obtaining environmental approvals, regulatory framework changes, prosecutions, increase in equipment price, opposition from local and international stakeholders, adverse geographical conditions, natural disasters, accidents or other unforeseen events.

The Company's exposure to such risks is managed through a commercial policy that considers the effects of potential project delays. Alternatively, clearance levels with respect to time and costs of construction estimates are incorporated. Additionally, the Company's exposure to this risk is partially covered with the "All Construction Risk" insurance policies covering both physical damage and loss of profit as a result of delay in service resulting from a casualty, both with standard deductibles for this type of insurances.

The companies in the sector face a very challenging electricity market, with lots of activity from different interest groups, mainly from local communities and NGOs, which are legitimately looking for more participation and prominence. As part of this complexity, the environmental processing times have become more uncertain, which occasionally are also followed by long prosecuting processes. This has resulted in less construction of significant size projects.

Colbún has also the policy to integrate with excellence the social and environmental dimensions to the development of its projects. The Company has developed a model of social link that allows it to work with neighboring communities and with the society in general, starting a transparent process of public participation and confidence building in the early stages of projects and throughout their entire life cycle.

#### **B.1.6. Regulatory risks**

Regulatory stability is fundamental for the generation sector, due to the long-term nature of the development, execution and return on investment of its projects. Colbún believes that regulatory changes must be made taking into consideration the complexities of the electrical system and keeping adequate investment



incentives. It is important to dispose of a regulation that gives clear and transparent rules that consolidates the trust of the agents in the sector.

In Chile, the energy agenda promoted by the government considers different regulatory changes, which, depending on the form in which they get be implemented, could represent an opportunity or risk for the Company. Changes that are currently being discussed in the Congress regarding (i) the amendment to the Water Code, (ii) the law related to strengthening the regionalization of the country, (iii) the bill that creates the Ministry of Indigenous Peoples, (iv) the bill that creates the National Council and the Councils of Indigenous Peoples and (v) the Law on Biodiversity and Protected Areas. There are also important initiatives in the sector such as: (i) definition of the regulations necessary for the proper implementation of the recently enacted Law on Electricity Transmission and (ii) the definition of the long-term Energy Policy for the country (2050) which is already in its diffusion stage, among others.

In Peru, the authority is conducting studies of regulatory changes for the electricity sector. Some of the issues that are being considered are related to: (i) Generation/wholesale market (to include major unregulated clients in the short term market), (ii) Duality (new methodology to monitor the performance of dual units).

The necessary and balanced development of the electricity market during the next few years depends greatly on the quality of these new regulations and on the signals provided by the authorities with them, both in Chile and Peru.

#### B.1.7. Risk of change in demand supply and selling price of electricity

The projection of future electricity consumption is very relevant information for the determination of its market price.

In Chile, a lower growth in demand, a decrease in fuel prices and an increase in the inflow of solar and wind renewables energy projects led to a decrease in the short-term price of energy (marginal cost) in 2016.

Regarding long-term values, the bidding process for the supply of regulated customers in August 2016 resulted in a significant drop in the prices bid and awarded, reflecting the greater competitiveness in the market and the impact of the emergence of new technologies - solar and wind fundamentally - with a significant reduction of costs due to its massification. Although the factors that trigger these competitive dynamics and price trends can be expected to remain in the future, it is difficult to determine their precise impact in the long-term values of energy.

Additionally, given the difference generated between regulated and unregulated clients, a portion of regulated clients may choose a non-regulated regime. This can occur because the electricity legislation allows clients with connected capacity between 500 kW and 5,000 kW to choose to be categorized as regulated or non-regulated customers. Colbún has one of the most efficient generation matrix in the Chilean system, thus we have the ability to offer competitive conditions and costs to customers who require it.

In Peru, there is also a scenario of a temporary imbalance between supply and demand, mainly due to the increase of efficient supply (hydroelectric and natural gas plants), involving a decrease of energy prices in recent months.

The growth that has been observed in the Chilean (and potentially in the Peruvian) market of non-conventional renewable sources of generation such as solar and wind may generate integration costs and therefore affect the operating conditions of the rest of the electrical system especially in the absence of a market for complementary services that adequately remunerate the services necessary to manage the variability of such generation sources.



### **B.2 Financial risks**

Financial risks are those associated with the inability to perform transactions or the breach of obligations from the activities due to lack of funds, as well as variations in interest rates, exchanges rates, counterparty financial stress or other financial market variables that may materially affect Colbún.

#### **B.2.1 Exchange rate risk**

The exchange rate risk is mainly caused by currency fluctuations that come from two sources. The first source of exposure comes from cash flows corresponding to revenues, costs and disbursements of investments denominated in currencies other than the functional currency (U.S. dollar). The second source of risk corresponds to the accounting mismatch between assets and liabilities of the Statement of Financial Position denominated in currencies other than the functional currency.

Exposure to cash flows in currencies other than USD is limited because virtually all sales of the Company are denominated directly in or indexed to USD. Similarly, the main costs are related to diesel, natural gas and coal purchases, which incorporate pricing formulas based on international prices denominated in USD. Regarding investment projects disbursements, the Company incorporates indexers in its contracts with suppliers and resorts to the use of derivatives to fix the expenses in currencies other than USD.

Exposure to the mismatching of accounts is mitigated by applying a policy of maximum mismatch between assets and liabilities for those structural items denominated in currencies other than USD. For purposes of the above, Colbún maintains a significant proportion of its cash surpluses in dollars and additionally resorts to the use of derivatives, mainly using currency swaps and forwards.

The information on the credit rating of the clients is disclosed in note 11.b of the Financial Statements.

#### **B.2.2 Interest rate risk**

Is related to changes in interest rates that affect the value of future cash flows tied to a floating interest rate, and changes in the fair value of assets and liabilities linked to fixed interest rate that are measured at fair value. In order to mitigate these risks, interest rate swaps are used.

The Company's financial debt, including the effect of the contracted interest rate derivatives, has the following profile:

#### Table 13: Interest Rate Profile

Interest Rate	Sep-16	Dec-16	Sep-17
Fixed	94%	97%	100%
Variable	6%	3%	0%
Total	100%	100%	100%

As of September 30, 2017, the Company's financial debt is 100% denominated in fixed rate.

## **B.2.3 Credit risk**

The Company is exposed to the risk arising from the possibility that a counterpart fails to meet its contractual obligations, producing an economic or financial loss. Historically, all of Colbún's counterparties with which it has maintained energy supply contracts have made the corresponding payments correctly.



With respect to cash and derivatives statements, Colbún has entered into these transactions with financial institutions with high credit ratings. Additionally, the Company has established limits by counterparty, which are approved by the Board of Directors and periodically reviewed.

As of September 30, 2017, cash surpluses are invested in mutual funds (of subsidiaries of banks) and in time deposits in local and international banks. The former correspond to short-term mutual funds with maturities of less than 90 days, which are known as "money market".

Information on contractual maturities of the main financial liabilities is disclosed in note 11.b of the Financial Statements.

#### **B.2.4 Liquidity risk**

This risk results from different funding requirements to meet investment commitments and business expenses, debt payments, among others. The funds needed to meet these cash flow outputs are obtained from our own resources generated by Colbún's ordinary activity and by contracting credit lines to ensure sufficient funds to cover projected needs for a given period.

As of September 30, 2017, Colbún has cash in excess for approximately US\$776 million, invested in time deposits with an average maturity of 89 days (includes time deposits with a duration of more than 90 days, which are recorded as "Other Current Financial Assets" in the Consolidated Financial Statements) and in short-term mutual funds with a maturity of less than 90 days. The Company also has as additional liquidity sources available to date: (i) two bonds lines registered in the local market for a total amount of UF 7 million, (ii) a line of trade notes in the local market for UF 2.5 million and (iii) uncommitted bank lines of approximately US\$150 million.

In the next 12 months, the Company must disburse approximately US\$90 million in interests and principal amortization. These obligations are expected to be funded with the Company's own cash flow generation.

As of September 30, 2017, Colbún has a local credit rating of AA- by Fitch Ratings and AA- by Standard and Poor's Chile (S&P Chile), both with stable outlooks. At the international level, the Company's rating is BBB by Fitch Ratings and BBB by Standard & Poor's (S&P Global), both with stable outlooks.

On its part, Fenix has international risk rating Baa3 by Moody's, BBB- by Standard & Poor's (S&P) and BBB- by Fitch Ratings, all with stable outlooks.

Considering the foregoing, it is believed that the Company's liquidity risk is currently limited.

Information on contractual maturities of the main financial liabilities is disclosed in note 22.c.1 of the Financial Statements.

#### **B.2.5 Risk measurement**

The Company periodically analyzes and measures its exposure to the different risk variables, in accordance with the previous paragraphs. Risk management is performed by a Risk Committee with the support of the Corporate Risk Management and in coordination with other divisions of the Company.

Regarding business risks, specifically those related to changes in commodity prices, Colbún has implemented mitigation measures consistent of indexers in energy sale contracts and of hedges with derivative instruments to cover any possible remaining exposure. It is for this reason that a sensitivity analysis is not presented.

To mitigate the risk of failures in equipment or in the projects construction, the Company has insurance coverage for damage to its physical property, business interruption damages and loss of profit for the delay in the commissioning of a project. This risk is considered fairly limited.



With regard to financial risks, for purposes of measuring exposure, Colbún prepares a sensitivity analysis and value at risk in order to monitor potential losses assumed by the Company in the event that the exposure exists.

The exchange rate risk is considered to be limited, since the Company's main flows (revenues, costs and projects disbursements) are denominated directly in or indexed to USD. Exposure to the mismatching of accounts is mitigated by applying a policy of maximum mismatch between assets and liabilities for those structural items denominated in currencies other than USD. Given the above, as of September 30, 2017, the Company's exposure to this risk is limited, resulting in a potential impact due to exchange differences of approximately US\$1.9 million, on a quarterly basis, based on a sensitivity analysis with 95% confidence.

There is no variation risk in interest rates, since 100% of the financial debt is contracted at a fixed rate.

Credit risk is limited because Colbún operates only with local and international banking counterparties with high credit ratings and has established policies of maximum exposure per counterparty that limits the specific concentration with these institutions. In the case of banks, local institutions have a local risk rating equal to or greater than BBB+ and foreign entities have an international risk rating investment grade.

At the end of the period, the financial institution that has the largest share of cash surplus reached 20%. Regarding existing derivatives, the Company's international counterparts have a credit rating equivalent to BBB+ or higher and national counterparts have local credit rating of BBB+ or higher. It should be noted that no counterparty concentrates more than 24% in notional terms.

Liquidity risk is considered low because of the relevant cash position of the Company, the amount of financial obligations over the next twelve months and the access to additional sources of funding, including committed and uncommitted financial lines.

# DISCLAIMER



This document provides Information about Colbún S.A. In no case this document constitutes a comprehensive analysis of the financial, production and sales situation of the Company.

This document may contain forward-looking statements concerning Colbún's future performance and should be considered as good faith estimates by Colbún S.A.

In compliance with the applicable laws, Colbún S.A. publishes on its website (www.colbun.cl) and sends the financial statements and its corresponding notes to the Superintendencia de Valores y Seguros, those documents should be read as a complement to this report.