Tesla

April 16, 2021

1 Overview of Financial statements

Period of Analysis			
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Tesla,	Inc.	Analysis	of	financial	statements	for	years	ended	on:

Dec. 31, 2020 | Dec. 31, 2019 | Dec. 31, 2018.

Statement of Profit or Loss, aka Income Statement

Tesla,	Inc.	${\tt statement}$	of	${\tt profit}$	or	loss,	${\tt annual}$	report	

	Dec. 31, 2020	Dec. 31, 2019	Dec. 31, 2018
Income Statement, MLN USD			
Automotive leasing	1052.0	869.0	883.0
Total automotive revenues	27236.0	20821.0	18515.0
Services and other	2306.0	2226.0	1391.0
Total revenues	31536.0	24578.0	21461.0
Automotive leasing	563.0	459.0	488.0
Total automotive cost of re	20259.0	16398.0	14174.0
Services and other	2671.0	2770.0	1880.0
Total cost of revenues	24906.0	20509.0	17419.0
Gross profit	6630.0	4069.0	4042.0
Research and development	1491.0	1343.0	1460.0
Selling, general and admini	3145.0	2646.0	2835.0
Restructuring and other	0.0	149.0	135.0
Total operating expenses	4636.0	4138.0	4430.0
Income (loss) from operations	1994.0	-69.0	-388.0
Interest income	30.0	44.0	24.0
Interest expense	-748.0	-685.0	-663.0
Other (expense) income, net	-122.0	45.0	22.0
<pre>Income (loss) before income</pre>	1154.0	-665.0	-1005.0
Provision for income taxes	292.0	110.0	58.0
Net income (loss)	862.0	-775.0	-1063.0
Net income (loss) attributa	141.0	87.0	-87.0

Net income (loss) attributa	721.0	-862.0	-976.0
Less: Buy-out of noncontrol	31.0	8.0	0.0
Net income (loss) used in c	690.0	-870.0	-976.0
Basic	1.0	-1.0	-1.0
Diluted	1.0	-1.0	-1.0
Basic	933.0	887.0	853.0
Diluted	1083.0	887.0	853.0
Automotive Sales [Member]	0.0	0.0	0.0
Revenues	26184.0	19952.0	17632.0
Cost of revenues	19696.0	15939.0	13686.0
Energy Generation and Stora	0.0	0.0	0.0
Revenues	1994.0	1531.0	1555.0
Cost of revenues	1976.0	1341.0	1365.0

Tesla, Inc. changes in Revenue, Cost and Gross profit, MLN USD



Tesla,	Inc.	year	to	year	Revenue has increased by 28.31%
Tesla,	Inc.	year	to	year	Cost has increased by 21.44%
Tesla,	Inc.	year	to	year	Gross profit has increased by 62.94%

Tesla, Inc. Revenue breakdown, MLN USD



Tesla, Inc. Gross profit by division, MLN USD



Largest contributor to gross profit of Tesla, Inc. comes from business of its Auto division:

Tesla, Inc. year to year Auto Revenue has increased by 30.81%

Tesla, Inc. year to year Auto Gross profit has increased by 57.74%

Tesla, Inc. Operating profit year to year change, MLN USD



Tesla, Inc. Operating expenses by type, MLN USD

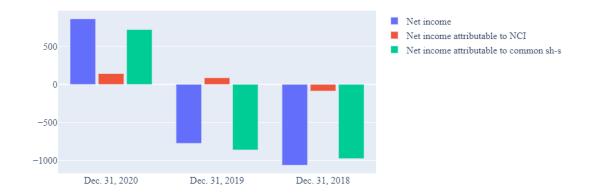


Operating profit boosted to the large extent by high gross profit, and only slightly due to cost efficiency:

Tesla, Inc. year to year Operating Profit has increased by 2989.86%

Tesla, Inc. year to year Operating Expenses has increased by 12.03%

Tesla, Inc. Net Profit, MLN USD



Statement of Financial Position, aka Balance Sheet

Tesla,	Inc.	statement	of	financial	position,	annual	report

•	,	•	
	Dec. 31, 2020	Dec. 31, 2019	
Balance Sheet, MLN USD	ŕ	ŕ	
Cash and cash equivalents	19384.0	6268.0	
Accounts receivable, net	1886.0	1324.0	
Inventory	4101.0	3552.0	
Prepaid expenses and other	1346.0	959.0	
Total current assets	26717.0	12103.0	
Property, plant and equipme	12747.0	10396.0	
Operating lease right-of-us	1558.0	1218.0	
Intangible assets, net	313.0	339.0	
Goodwill	207.0	198.0	
Other non-current assets	1536.0	1470.0	
Total assets	52148.0	34309.0	
Accounts payable	6051.0	3771.0	
Accrued liabilities and other	3855.0	3222.0	
Deferred revenue	1458.0	1163.0	
Customer deposits	752.0	726.0	
Current portion of debt and	2132.0	1785.0	
Total current liabilities	14248.0	10667.0	
Debt and finance leases, ne	9556.0	11634.0	
Deferred revenue, net of cu	1284.0	1207.0	
Other long-term liabilities	3330.0	2691.0	
Total liabilities	28418.0	26199.0	
Commitments and contingenci	0.0	0.0	

Redeemable noncontrolling i	604.0	643.0
Convertible senior notes (N	51.0	0.0
Preferred stock; \$0.001 par	0.0	0.0
Common stock; \$0.001 par va	1.0	1.0
Additional paid-in capital	27260.0	12736.0
Accumulated other comprehen	363.0	-36.0
Accumulated deficit	-5399.0	-6083.0
Total stockholders' equity	22225.0	6618.0
Noncontrolling interests in	850.0	849.0
Total liabilities and equity	52148.0	34309.0
Operating Lease Vehicles [M	0.0	0.0
Operating lease vehicles, net	3091.0	2447.0
Solar Energy Systems [Member]	0.0	0.0
Solar energy systems, net	5979.0	6138.0

For analysis I have included hybrid secuirities and redeemables of Tesla, Inc. in Liabilities rather than in Equity.

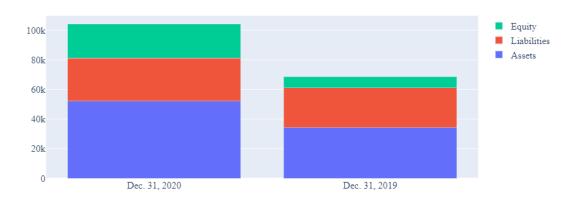
Verify the fundamental accounting identity holds:
Assets = Liabilities + Equity:

True

Dec. 31, 2020 True

Dec. 31, 2019 dtype: bool

Tesla, Inc. year to year changes in financial position, MLN USD

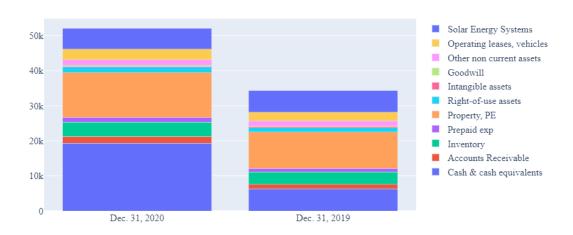


Verify all listed assets of Tesla, Inc. sum up to total assets shown:

Dec. 31, 2020 True Dec. 31, 2019 True

dtype: bool

Tesla, Inc. breakdown of disclosed assets, MLN USD

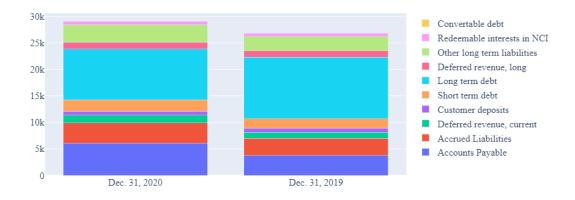


 $\begin{tabular}{ll} Verify all listed liabilities of Tesla, Inc. sum up to total liabilities shown: \\ \end{tabular}$

Dec. 31, 2020 True Dec. 31, 2019 True

dtype: bool

Tesla, Inc. breakdown of disclosed liabilities, MLN USD

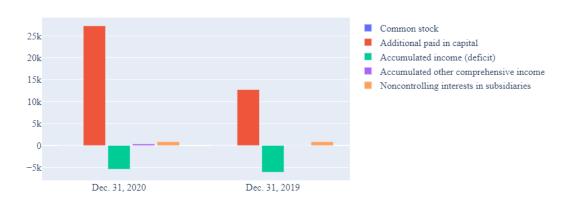


Verify all listed equity elements of Tesla, Inc. sum up to total equity shown:

Dec. 31, 2020 True Dec. 31, 2019 True

dtype: bool

Tesla, Inc. breakdown of disclosed equity, MLN USD



The most significant year to year changes in statement of financial position of Tesla, Inc.

occured in Equity and Assets.

Equity has increased by 209.03%

Total Assets have increased by 52.0%

Largest portion of changes in assets due to boost in Cash raised in equity market.

Cash & Cash equivalents have increased by 209.25%

Change in liabilities is relatively small, driven primarily by changes in long term debt and accounts payable:

Total liabilities have increased by 8.31%

Long term debt has decreased by -17.86%

Accounts payable have increased by 60.46%

Statement of Cash Flows

Tesla, Inc. statement of cash flows, annual report

	Dec. 31, 2020	Dec. 31, 2019	Dec. 31, 2018
Cash Flows, MLN USD			
Net income (loss)	862.0	-775.0	-1063.0
Depreciation, amortization	2322.0	2154.0	1901.0
Stock-based compensation	1734.0	898.0	749.0
Amortization of debt discou	180.0	188.0	159.0
Inventory and purchase comm	202.0	193.0	85.0
Loss on disposals of fixed	117.0	146.0	162.0
Foreign currency transactio	114.0	-48.0	-2.0
Non-cash interest and other	228.0	186.0	49.0
Operating cash flow related	0.0	-188.0	0.0
Accounts receivable	-652.0	-367.0	-497.0
Inventory	-422.0	-429.0	-1023.0
Operating lease vehicles	-1072.0	-764.0	-215.0
Prepaid expenses and other	-251.0	-288.0	-82.0
Other non-current assets	-344.0	115.0	-207.0
Accounts payable and accrue	2102.0	646.0	1797.0
Deferred revenue	321.0	801.0	406.0
Customer deposits	7.0	-58.0	-96.0
Other long-term liabilities	495.0	-5.0	-25.0
Net cash provided by operat	5943.0	2405.0	2098.0
Purchases of property and e	-3157.0	-1327.0	-2101.0
Purchases of solar energy s	-75.0	-105.0	-218.0
Receipt of government grants	123.0	46.0	0.0
Purchase of intangible assets	-10.0	-5.0	0.0
Business combinations, net	-13.0	-45.0	-18.0
Net cash used in investing	-3132.0	-1436.0	-2337.0
Proceeds from issuances of	12269.0	848.0	0.0
Proceeds from issuances of	9713.0	10669.0	6176.0
Repayments of convertible a	-11623.0	-9161.0	-5247.0
Repayments of borrowings is	0.0	0.0	-100.0
Collateralized lease repaym	-240.0	-389.0	-559.0
Proceeds from exercises of	417.0	263.0	296.0
Principal payments on finan	-338.0	-321.0	-181.0
Debt issuance costs	-6.0	-37.0	-15.0
Purchase of convertible not	0.0	-476.0	0.0
Proceeds from issuance of w	0.0	174.0	0.0
Proceeds from investments b	24.0	279.0	437.0
Distributions paid to nonco	-208.0	-311.0	-227.0
Payments for buy-outs of no	-35.0	-9.0	-6.0
Net cash provided by financ	9973.0	1529.0	574.0

Effect of exchange rate cha	334.0	8.0	-23.0
Net increase in cash and ca	13118.0	2506.0	312.0
Cash and cash equivalents a	6783.0	4277.0	3965.0
Cash and cash equivalents a	19901.0	6783.0	4277.0
Equity issued in connection	0.0	207.0	0.0
Acquisitions of property an	1088.0	562.0	249.0
Estimated fair value of fac	0.0	0.0	94.0
Cash paid during the period	444.0	455.0	381.0
Cash paid during the period	115.0	54.0	35.0

Tesla, Inc. Cash Flows, MLN USD



Statement of changes in shareholders equity

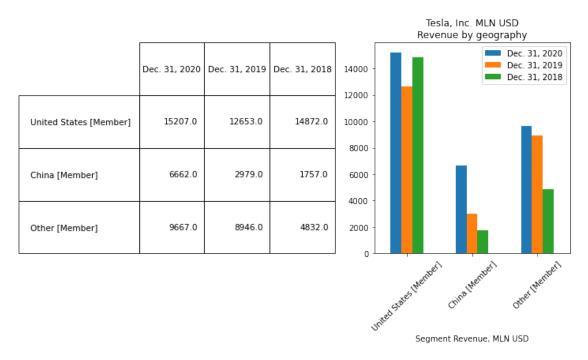
Tesla, Inc. statement of changes in shareholders equity:

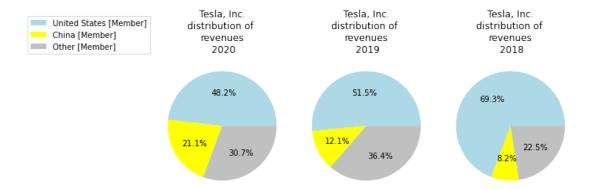
	Total
Statement of Equity	
Balance at Dec. 31, 2017	5234.0
Balance (Accounting Standar	534.0
Balance (Accounting Standar	9.0
Issuance of common stock fo	296.0
Stock-based compensation	775.0
Contributions from noncontr	161.0
Distributions to noncontrol	-210.0
Net income (loss)	-1001.0
Other comprehensive income	-41.0
Balance at Dec. 31, 2018	5757.0
Balance (Accounting Standar	97.0
Purchase of convertible not	-476.0

Sales of warrants	174.0
Issuance of common stock fo	482.0
Stock-based compensation	973.0
Contributions from noncontr	174.0
Distributions to noncontrol	-198.0
Other	-4.0
Net income (loss)	-823.0
Other comprehensive income	-28.0
Balance at Dec. 31, 2019	7467.0
Balance (Accounting Standar	-37.0
Reclassification between eq	-51.0
Exercises of conversion fea	59.0
Issuance of common stock fo	417.0
Issuance of common stock pu	12269.0
Stock-based compensation	1861.0
Contributions from noncontr	17.0
Distributions to noncontrol	-132.0
Buy-outs of noncontrolling	-31.0
Net income (loss)	837.0
Other comprehensive income	399.0
Balance at Dec. 31, 2020	23075.0

Revenue by geography

Tesla, Inc. Revenue by geographical region:





2 Profitability Analysis

Tesla, I	nc. p	rofitabi:	lity	ratios:
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	Dec. 31, 2020 Dec.	31, 2019
Gross profit margin %	21.02	16.56
Operating profit margin %	6.32	-0.28
Net profit margin %	2.73	-3.15
Asset turnover ratio	0.73	No data
Return on assets %	1.99	No data
Return on capital employed %	5.26	-0.29
Return on common shareholde	4.72	No data

3 Liquidity and Working Capital Turnover Analysis

Tesla, Inc. Liquidity and Working Capital turnover ratios:

	Dec. 31, 2020
Current ratio	1.88
Quick ratio	1.59
Operating CF to Current Lia	0.42
Inventory turnover	6.51
Inventory days	56.08
Accounts receivable turnover	19.65
Receivables days	18.58

Accounts	payable	turnov	7er	5.0	07
Payables	days			71.9	97
Required	financin	ng for	days	2.6	68

4 Solvency Analysis

Tesla, Inc. Solvency ratios:			
	Dec. 31, 2020 Dec.	31, 2019	
Liabilities to Assets Ratio	0.56	0.78	
Liabilities to Shareholders	1.26	3.59	
Long term debt to Long term	0.29	0.61	
Long term debt to equity ratio	0.41	1.56	
Gearing %	50.65	179.71	
Interest cover times	2.78	0.11	

Free Cash Flows

0.21

No data

Tesla, Inc. Free Cash Flows MLN USD:

Operating cash flow to tota...

Dec. 31, 2020 2811.0 Dec. 31, 2019 969.0 Dec. 31, 2018 -239.0

dtype: float64

Bankruptcy Prediction Models Using Multiple Discriminant Analysis (MDA)

Z-scores of less than 1.81 indicated a high probability of bankruptcy, while Z-scores higher than 3.00 indicated a low probability of bankruptcy. Scores between 1.81 and 3.00 were in the gray area

Tesla, Inc. Altman's Z-score:

Dec. 31, 2020 39.30 Dec. 31, 2019 42.07

dtype: float64

Probability of Tesla, Inc. Bunkruptcy is Low

Beneish Manipulation Index to assess the likelihood of earnings manipulation
Tesla, Inc. Probability of earnings manipulation %:
0.200780000000001
EPS and market perception
Tesla, Inc. basic EPS:
0.74
Tesla, Inc. diluted EPS:
0.64
Tesla, Inc. latest P/E ratio from Yahoo finance on this date 2021-04-16:
1154.4531
Tesla, Inc. Market cap from Yahoo finance MLN USD on this date 2021-04-16:
709188.124672
Tesla, Inc. Share Price from Yahoo finance USD on this date 2021-04-16:
743.1
Tesla, Inc. Net Assets MLN:
23075.0

Tesla, Inc. profitability ratio for the same year					Ford
	Dec.	31, 2020	GM	Ford	
Gross profit margin %			20.37		
Operating profit margin %		6.32	5.42	-3.47	
Net profit margin %		2.73	5.10	-1.00	
Asset turnover ratio		0.73	0.53	0.48	
Return on assets %		1.99	2.70	-0.49	
Return on capital employed %		5.26	4.27	-2.59	
Return on common shareholde		4.72	14.39	-3.99	
Tesla, Inc. liquidity ratio com	pared	to ratio	s of GM	and Ford	
	Dec.	31, 2020	 GM	Ford	
Current ratio	200.			1.20	
Quick ratio				1.09	
Operating CF to Current Lia				0.25	
Inventory turnover				10.44	
Inventory days			38.61		
Accounts receivable turnover			16.52		
Receivables days		18.58	22.10	165.47	
Accounts payable turnover		5.07	4.76	5.26	
Payables days		71.97	76.61	69.40	
Required financing for days		2.68	-15.91	131.02	
Tesla, Inc. solvency ratios com	 pared	to ratio	s of GM	and Ford	
	Dec.	31, 2020	GM	Ford	
Liabilities to Assets Ratio		0.56			
Liabilities to Shareholders		1.26			
Long term debt to Long term		0.29			
Long term debt to equity ratio		0.41			
Gearing %		50.65			
υ ···					
Interest cover times		2.78	1.61	2.75	

Tesla, Inc. leads by almost all indicators. However its financials and industry prospects do not justify an extreme valuation at 1154!