
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
FORM 10-Q

(Mark One)

☒ **QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the quarterly period ended September 30, 2021

OR

☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

Commission File Number: 001-34756

Tesla, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

3500 Deer Creek Road
Palo Alto, California
(Address of principal executive offices)

91-2197729
(I.R.S. Employer
Identification No.)

94304
(Zip Code)

(650) 681-5000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common stock	TSLA	The Nasdaq Global Select Market

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 ("Exchange Act") during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act:

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

As of October 21, 2021, there were 1,004,264,852 shares of the registrant's common stock outstanding.

TESLA, INC.
FORM 10-Q FOR THE QUARTER ENDED SEPTEMBER 30, 2021

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Forward-Looking Statements

The discussions in this Quarterly Report on Form 10-Q contain forward-looking statements reflecting our current expectations that involve risks and uncertainties. These forward-looking statements include, but are not limited to, statements concerning any potential future impact of the coronavirus disease ("COVID-19") pandemic on our business, supply chain constraints, our strategy, competition, future operations and production capacity, future financial position, future revenues, projected costs, profitability, expected cost reductions, capital adequacy, expectations regarding demand and acceptance for our technologies, growth opportunities and trends in the market in which we operate, prospects and plans and objectives of management. The words "anticipates," "believes," "could," "estimates," "expects," "intends," "may," "plans," "projects," "will," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements that we make. These forward-looking statements involve risks and uncertainties that could cause our actual results to differ materially from those in the forward-looking statements, including, without limitation, the risks set forth in Part II, Item 1A, "Risk Factors" in this Quarterly Report on Form 10-Q and in our other filings with the Securities and Exchange Commission (the "SEC"). We do not assume any obligation to update any forward-looking statements.

PART I. FINANCIAL INFORMATION
ITEM 1. FINANCIAL STATEMENTS

Tesla, Inc.
Consolidated Balance Sheets
(in millions, except per share data)
(unaudited)

	September 30, 2021	December 31, 2020
Assets		
Current assets		
Cash and cash equivalents	\$ 16,065	\$ 19,384
Short-term marketable securities	30	—
Accounts receivable, net	1,962	1,886
Inventory	5,199	4,101
Prepaid expenses and other current assets	1,746	1,346
Total current assets	25,002	26,717
Operating lease vehicles, net	4,167	3,091
Solar energy systems, net	5,821	5,979
Property, plant and equipment, net	17,298	12,747
Operating lease right-of-use assets	1,962	1,558
Digital assets, net	1,260	—
Intangible assets, net	269	313
Goodwill	201	207
Other non-current assets	1,854	1,536
Total assets	\$ 57,834	\$ 52,148
Liabilities		
Current liabilities		
Accounts payable	\$ 8,260	\$ 6,051
Accrued liabilities and other	5,443	3,855
Deferred revenue	1,801	1,458
Customer deposits	831	752
Current portion of debt and finance leases	1,716	2,132
Total current liabilities	18,051	14,248
Debt and finance leases, net of current portion	6,438	9,556
Deferred revenue, net of current portion	1,365	1,284
Other long-term liabilities	3,486	3,330
Total liabilities	29,340	28,418
Commitments and contingencies (Note 12)		
Redeemable noncontrolling interests in subsidiaries	605	604
Convertible senior notes (Note 10)	—	51
Equity		
Stockholders' equity		
Preferred stock; \$0.001 par value; 100 shares authorized; no shares issued and outstanding	—	—
Common stock; \$0.001 par value; 2,000 shares authorized; 1,004 shares and 960 shares issued and outstanding as of September 30, 2021 and December 31, 2020, respectively	1	1
Additional paid-in capital	28,922	27,260
Accumulated other comprehensive income	120	363
Accumulated deficit	(1,990)	(5,399)
Total stockholders' equity	27,053	22,225
Noncontrolling interests in subsidiaries	836	850
Total liabilities and equity	\$ 57,834	\$ 52,148

The accompanying notes are an integral part of these consolidated financial statements.

Tesla, Inc.
Consolidated Statements of Operations
(in millions, except per share data)
(unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Revenues				
Automotive sales	\$ 11,672	\$ 7,346	\$ 30,251	\$ 17,150
Automotive leasing	385	265	1,014	772
Total automotive revenues	12,057	7,611	31,265	17,922
Energy generation and storage	806	579	2,101	1,242
Services and other	894	581	2,738	1,628
Total revenues	13,757	8,771	36,104	20,792
Cost of revenues				
Automotive sales	8,150	5,361	21,726	12,774
Automotive leasing	234	145	582	415
Total automotive cost of revenues	8,384	5,506	22,308	13,189
Energy generation and storage	803	558	2,179	1,189
Services and other	910	644	2,858	1,850
Total cost of revenues	10,097	6,708	27,345	16,228
Gross profit	3,660	2,063	8,759	4,564
Operating expenses				
Research and development	611	366	1,853	969
Selling, general and administrative	994	888	3,023	2,176
Restructuring and other	51	—	(27)	—
Total operating expenses	1,656	1,254	4,849	3,145
Income from operations	2,004	809	3,910	1,419
Interest income	10	6	31	24
Interest expense	(126)	(163)	(300)	(502)
Other (expense) income, net	(6)	(97)	67	(166)
Income before income taxes	1,882	555	3,708	775
Provision for income taxes	223	186	407	209
Net income	1,659	369	3,301	566
Net income attributable to noncontrolling interests and redeemable noncontrolling interests in subsidiaries	41	38	103	115
Net income attributable to common stockholders	<u>\$ 1,618</u>	<u>\$ 331</u>	<u>\$ 3,198</u>	<u>\$ 451</u>
Less: Buy-out of noncontrolling interest	—	31	—	31
Net income used in computing net income per share of common stock	<u>\$ 1,618</u>	<u>\$ 300</u>	<u>\$ 3,198</u>	<u>\$ 420</u>
Net income per share of common stock attributable to common stockholders				
Basic	<u>\$ 1.62</u>	<u>\$ 0.32</u>	<u>\$ 3.27</u>	<u>\$ 0.45</u>
Diluted	<u>\$ 1.44</u>	<u>\$ 0.27</u>	<u>\$ 2.84</u>	<u>\$ 0.40</u>
Weighted average shares used in computing net income per share of common stock				
Basic	<u>998</u>	<u>937</u>	<u>977</u>	<u>927</u>
Diluted	<u>1,123</u>	<u>1,105</u>	<u>1,130</u>	<u>1,059</u>

The accompanying notes are an integral part of these consolidated financial statements.

Tesla, Inc.
Consolidated Statements of Comprehensive Income
(in millions)
(unaudited)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Net income	\$ 1,659	\$ 369	\$ 3,301	\$ 566
Other comprehensive income (loss):				
Foreign currency translation adjustment	(86)	165	(243)	161
Comprehensive income	1,573	534	3,058	727
Less: Comprehensive income attributable to noncontrolling interests and redeemable noncontrolling interests in subsidiaries	41	38	103	115
Comprehensive income attributable to common stockholders	<u>\$ 1,532</u>	<u>\$ 496</u>	<u>\$ 2,955</u>	<u>\$ 612</u>

The accompanying notes are an integral part of these consolidated financial statements.

Tesla, Inc.

Consolidated Statements of Redeemable Noncontrolling Interests and Equity
(in millions, except per share data)
(unaudited)

	Redeemable Noncontrolling Interests	Common Stock Shares	Common Stock Amount	Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive (Loss) Income	Total Stockholders' Equity	Noncontrolling Interests in Subsidiaries	Total Equity
Three Months Ended September 30, 2020									
Balance as of June 30, 2020	\$ 613	932	\$ 1	\$ 15,894	\$ (6,000)	\$ (40)	\$ 9,855	\$ 869	\$ 10,724
Reclassification between equity and mezzanine equity for convertible senior notes	—	—	0	(4)	—	—	(4)	—	(4)
Exercises of conversion feature of convertible senior notes	—	1	0	32	—	—	32	—	32
Issuance of common stock for equity incentive awards	—	4	0	144	—	—	144	—	144
Issuance of common stock through at-the-market offering program net of issuance cost of \$26	—	11	0	4,973	—	—	4,973	—	4,973
Stock-based compensation	—	—	0	566	—	—	566	—	566
Contributions from noncontrolling interests	4	—	0	—	—	—	—	—	—
Distributions to noncontrolling interests	(25)	—	0	—	—	—	—	(30)	(30)
Buy-out of noncontrolling interests	—	—	0	(31)	—	—	(31)	—	(31)
Net income	16	—	0	—	331	—	331	22	353
Other comprehensive income	—	—	—	—	—	165	165	—	165
Balance as of September 30, 2020	\$ 608	948	\$ 1	\$ 21,574	\$ (5,669)	\$ 125	\$ 16,031	\$ 861	\$ 16,892
Nine Months Ended September 30, 2020									
Balance as of December 31, 2019	\$ 643	905	\$ 1	\$ 12,736	\$ (6,083)	\$ (36)	\$ 6,618	\$ 849	\$ 7,467
Adjustments for prior periods from adopting ASU 2016-13	—	—	—	—	(37)	—	(37)	—	(37)
Reclassification between equity and mezzanine equity for convertible senior notes	—	—	—	(48)	—	—	(48)	—	(48)
Exercises of conversion feature of convertible senior notes	—	2	0	97	—	—	97	—	97
Issuance of common stock for equity incentive awards	—	15	0	361	—	—	361	—	361
Issuance of common stock in Feb 2020 public offering, net of issuance costs of \$28	—	15	0	2,309	—	—	2,309	—	2,309
Issuance of common stock through at-the-market offering program net of issuance cost of \$26	—	11	0	4,973	—	—	4,973	—	4,973
Stock-based compensation	—	—	—	1,177	—	—	1,177	—	1,177
Contributions from noncontrolling interests	6	—	—	—	—	—	—	17	17
Distributions to noncontrolling interests	(52)	—	—	—	—	—	—	(107)	(107)
Buy-out of noncontrolling interests	(2)	—	—	(31)	—	—	(31)	—	(31)
Net income	13	—	—	—	451	—	451	102	553
Other comprehensive income	—	—	—	—	—	161	161	—	161
Balance as of September 30, 2020	\$ 608	948	\$ 1	\$ 21,574	\$ (5,669)	\$ 125	\$ 16,031	\$ 861	\$ 16,892

	Redeemable Noncontrolling Interests	Common Stock Shares	Common Stock Amount	Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total Stockholders' Equity	Noncontrolling Interests in Subsidiaries	Total Equity
Three Months Ended September 30, 2021									
Balance as of June 30, 2021	\$ 605	984	\$ 1	\$ 28,205	\$ (3,608)	\$ 206	\$ 24,804	\$ 841	\$ 25,645
Exercises of conversion feature of convertible senior notes	—	0	0	1	—	—	1	—	1
Settlements of warrants	—	18	0	—	—	—	—	—	—
Issuance of common stock for equity incentive awards	—	2	0	192	—	—	192	—	192
Stock-based compensation	—	—	—	524	—	—	524	—	524
Distributions to noncontrolling interests	(16)	—	—	—	—	—	—	(30)	(30)
Net income	16	—	—	—	1,618	—	1,618	25	1,643
Other comprehensive loss	—	—	—	—	—	(86)	(86)	—	(86)
Balance as of September 30, 2021	<u>\$ 605</u>	<u>1,004</u>	<u>\$ 1</u>	<u>\$ 28,922</u>	<u>\$ (1,990)</u>	<u>\$ 120</u>	<u>\$ 27,053</u>	<u>\$ 836</u>	<u>\$ 27,889</u>

	Redeemable Noncontrolling Interests	Common Stock Shares	Common Stock Amount	Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income	Total Stockholders' Equity	Noncontrolling Interests in Subsidiaries	Total Equity
Nine Months Ended September 30, 2021									
Balance as of December 31, 2020	\$ 604	960	\$ 1	\$ 27,260	\$ (5,399)	\$ 363	\$ 22,225	\$ 850	\$ 23,075
Adjustments for prior periods from adopting ASU 2020-06	—	—	—	(474)	211	—	(263)	—	(263)
Exercises of conversion feature of convertible senior notes	—	1	0	6	—	—	6	—	6
Settlements of warrants	—	35	0	—	—	—	—	—	—
Issuance of common stock for equity incentive awards	—	8	0	444	—	—	444	—	444
Stock-based compensation	—	—	—	1,686	—	—	1,686	—	1,686
Contributions from noncontrolling interests	2	—	—	—	—	—	—	—	—
Distributions to noncontrolling interests	(42)	—	—	—	—	—	—	(76)	(76)
Net income	41	—	—	—	3,198	—	3,198	62	3,260
Other comprehensive loss	—	—	—	—	—	(243)	(243)	—	(243)
Balance as of September 30, 2021	<u>\$ 605</u>	<u>1,004</u>	<u>\$ 1</u>	<u>\$ 28,922</u>	<u>\$ (1,990)</u>	<u>\$ 120</u>	<u>\$ 27,053</u>	<u>\$ 836</u>	<u>\$ 27,889</u>

The accompanying notes are an integral part of these consolidated financial statements.

Tesla, Inc.
Consolidated Statements of Cash Flows
(in millions)
(unaudited)

	Nine Months Ended September 30,	
	2021	2020
Cash Flows from Operating Activities		
Net income	\$ 3,301	\$ 566
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation, amortization and impairment	2,063	1,704
Stock-based compensation	1,563	1,101
Inventory and purchase commitments write-downs	128	140
Foreign currency transaction net loss	8	144
Non-cash interest and other operating activities	213	327
Digital assets gain, net	(27)	—
Changes in operating assets and liabilities:		
Accounts receivable	(148)	(550)
Inventory	(1,175)	(602)
Operating lease vehicles	(1,526)	(640)
Prepaid expenses and other current assets	(287)	(290)
Other non-current assets	(744)	(105)
Accounts payable and accrued liabilities	2,764	765
Deferred revenue	452	118
Customer deposits	80	(15)
Other long-term liabilities	247	261
Net cash provided by operating activities	6,912	2,924
Cash Flows from Investing Activities		
Purchases of property and equipment excluding finance leases, net of sales	(4,672)	(2,006)
Purchases of solar energy systems, net of sales	(28)	(62)
Purchases of digital assets	(1,500)	—
Proceeds from sales of digital assets	272	—
Purchases of marketable securities	(30)	—
Receipt of government grants	6	1
Purchase of intangible assets	—	(5)
Business combinations, net of cash acquired	—	(13)
Net cash used in investing activities	(5,952)	(2,085)
Cash Flows from Financing Activities		
Proceeds from issuances of common stock in public offerings, net of issuance costs	—	7,282
Proceeds from issuances of convertible and other debt	7,633	7,826
Repayments of convertible and other debt	(11,589)	(7,537)
Collateralized lease repayments	(9)	(224)
Proceeds from exercises of stock options and other stock issuances	445	361
Principal payments on finance leases	(311)	(248)
Debt issuance costs	(9)	(6)
Proceeds from investments by noncontrolling interests in subsidiaries	2	23
Distributions paid to noncontrolling interests in subsidiaries	(108)	(163)
Payments for buy-outs of noncontrolling interests in subsidiaries	—	(33)
Net cash (used in) provided by financing activities	(3,946)	7,281
Effect of exchange rate changes on cash and cash equivalents and restricted cash	(221)	100
Net (decrease) increase in cash and cash equivalents and restricted cash	(3,207)	8,220
Cash and cash equivalents and restricted cash, beginning of period	19,901	6,783
Cash and cash equivalents and restricted cash, end of period	\$ 16,694	\$ 15,003
Supplemental Non-Cash Investing and Financing Activities		
Acquisitions of property and equipment included in liabilities	\$ 2,040	\$ 913
Leased assets obtained in exchange for finance lease liabilities	\$ 355	\$ 116
Leased assets obtained in exchange for operating lease liabilities	\$ 670	\$ 333

The accompanying notes are an integral part of these consolidated financial statements.

Tesla, Inc.
Notes to Consolidated Financial Statements
(unaudited)

Note 1 – Overview

Tesla, Inc. (“Tesla”, the “Company”, “we”, “us” or “our”) was incorporated in the State of Delaware on July 1, 2003. We design, develop, manufacture and sell high-performance fully electric vehicles and design, manufacture, install and sell solar energy generation and energy storage products. Our Chief Executive Officer, as the chief operating decision maker (“CODM”), organizes our company, manages resource allocations and measures performance among two operating and reportable segments: (i) automotive and (ii) energy generation and storage.

Beginning in the first quarter of 2021, there has been a trend in many parts of the world of increasing availability and administration of vaccines against COVID-19, as well as an easing of restrictions on social, business, travel and government activities and functions. On the other hand, infection rates and regulations continue to fluctuate in various regions and there are ongoing global impacts resulting from the pandemic, including challenges and increases in costs for logistics and supply chains, such as increased port congestion, intermittent supplier delays and a shortfall of semiconductor supply. We have also previously been affected by temporary manufacturing closures, employment and compensation adjustments and impediments to administrative activities supporting our product deliveries and deployments.

Note 2 – Summary of Significant Accounting Policies

Unaudited Interim Financial Statements

The consolidated balance sheet as of September 30, 2021, the consolidated statements of operations, the consolidated statements of comprehensive income, the consolidated statements of redeemable noncontrolling interests and equity for the three and nine months ended September 30, 2021 and 2020 and the consolidated statements of cash flows for the nine months ended September 30, 2021 and 2020, as well as other information disclosed in the accompanying notes, are unaudited. The consolidated balance sheet as of December 31, 2020 was derived from the audited consolidated financial statements as of that date. The interim consolidated financial statements and the accompanying notes should be read in conjunction with the annual consolidated financial statements and the accompanying notes contained in our Annual Report on Form 10-K for the year ended December 31, 2020.

The interim consolidated financial statements and the accompanying notes have been prepared on the same basis as the annual consolidated financial statements and, in the opinion of management, reflect all adjustments, which include only normal recurring adjustments, necessary for a fair statement of the results of operations for the periods presented. The consolidated results of operations for any interim period are not necessarily indicative of the results to be expected for the full year or for any other future years or interim periods.

Use of Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles (“GAAP”) requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, costs and expenses and related disclosures in the accompanying notes.

Due to the COVID-19 pandemic, there has been uncertainty and disruption in the global economy and financial markets which could impact our estimates and assumptions. We have assessed the impact and are not aware of any specific events or circumstances that required an update to our estimates and assumptions or materially affected the carrying value of our assets or liabilities as of the date of issuance of this Quarterly Report on Form 10-Q. These estimates may change as new events occur and additional information is obtained. Actual results could differ materially from these estimates under different assumptions or conditions.

Revenue Recognition

Revenue by source

The following table disaggregates our revenue by major source (in millions):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Automotive sales without resale value guarantee	\$ 11,230	\$ 6,788	\$ 28,575	\$ 15,578
Automotive sales with resale value guarantee	163	161	525	393
Automotive regulatory credits	279	397	1,151	1,179
Energy generation and storage sales	662	439	1,698	837
Services and other	894	581	2,738	1,628
Total revenues from sales and services	13,228	8,366	34,687	19,615
Automotive leasing	385	265	1,014	772
Energy generation and storage leasing	144	140	403	405
Total revenues	<u>\$ 13,757</u>	<u>\$ 8,771</u>	<u>\$ 36,104</u>	<u>\$ 20,792</u>

Automotive Segment

Automotive Sales Revenue

Automotive Sales with and without Resale Value Guarantee

We recognize revenue when control transfers upon delivery to customers in accordance with ASC 606 as a sale with a right of return when we do not believe the customer has a significant economic incentive to exercise the resale value guarantee provided to them at contract inception. The total sales return reserve on vehicles previously sold under our buyback options program was \$526 million and \$703 million as of September 30, 2021 and December 31, 2020, respectively, of which \$201 million and \$202 million was short term, respectively.

Deferred revenue is related to the access to our Supercharger network, internet connectivity, Full Self Driving (“FSD”) features and over-the-air software updates on automotive sales with and without resale value guarantee, which amounted to \$2.22 billion and \$1.93 billion as of September 30, 2021 and December 31, 2020, respectively.

Deferred revenue is equivalent to the total transaction price allocated to the performance obligations that are unsatisfied, or partially unsatisfied, as of the balance sheet date. Revenue recognized from the deferred revenue balance as of December 31, 2020 and 2019 was \$230 million and \$223 million for the nine months ended September 30, 2021 and 2020, respectively. Of the total deferred revenue on automotive sales with and without resale value guarantees as of September 30, 2021, we expect to recognize \$1.39 billion of revenue in the next 12 months. The remaining balance will be recognized over the performance period which is generally the expected ownership life of the vehicle or the eight-year life of the vehicle.

Automotive Regulatory Credits

We earn tradable credits in the operation of our automotive business under various regulations related to zero-emission vehicles, greenhouse gas, fuel economy and clean fuel. We sell these credits to other regulated entities who can use the credits to comply with emission standards and other regulatory requirements.

Payments for automotive regulatory credits are typically received at the point control transfers to the customer, or in accordance with payment terms customary to the business. We recognize revenue on the sale of automotive regulatory credits at the time control of the regulatory credits is transferred to the purchasing party as automotive sales revenue in the consolidated statements of operations. Deferred revenue related to sales of automotive regulatory credits was \$20 million and \$21 million as of September 30, 2021 and December 31, 2020, respectively. We expect to recognize the majority of the deferred revenue as of September 30, 2021 in the next 12 months. Revenue recognized from the deferred revenue balance as of December 31, 2020 and 2019 was immaterial and \$140 million for the nine months ended September 30, 2021 and 2020, respectively.

Automotive Leasing Revenue

Direct Sales-Type Leasing Program

For the three and nine months ended September 30, 2021, we recognized \$59 million and \$156 million, respectively, of sales-type leasing revenue and \$35 million and \$97 million, respectively, of sales-type leasing cost of revenue. For the three and nine months ended September 30, 2020, we recognized \$59 million and \$63 million, respectively, of sales-type leasing revenue and \$41 million and \$44 million, respectively, of sales-type leasing cost of revenue.

Net investment in sales-type leases, which is the sum of the present value of the future contractual lease payments, is presented on the consolidated balance sheets as a component of prepaid expenses and other current assets for the current portion and as other non-current assets for the long-term portion. Lease receivables relating to sales-type leases are presented on the consolidated balance sheets as follows (in millions):

	September 30, 2021	December 31, 2020
Gross lease receivables	\$ 221	\$ 102
Unearned interest income	(23)	(11)
Net investment in sales-type leases	<u>\$ 198</u>	<u>\$ 91</u>
Reported as:		
Prepaid expenses and other current assets	\$ 38	\$ 17
Other non-current assets	161	74
Net investment in sales-type leases	<u>\$ 198</u>	<u>\$ 91</u>

Energy Generation and Storage Segment

Energy Generation and Storage Sales

We record as deferred revenue any non-refundable amounts that are collected from customers related to fees charged for prepayments and remote monitoring service and operations and maintenance service, which is recognized as revenue ratably over the respective customer contract term. As of September 30, 2021 and December 31, 2020, deferred revenue related to such customer payments amounted to \$262 million and \$187 million, respectively. Revenue recognized from the deferred revenue balance as of December 31, 2020 and 2019 was \$90 million and \$31 million for the nine months ended September 30, 2021 and 2020, respectively. As of September 30, 2021, total transaction price allocated to performance obligations that were unsatisfied or partially unsatisfied for contracts with an original expected length of more than one year was \$152 million. Of this amount, we expect to recognize \$9 million in the next 12 months and the remaining over a period up to 26 years.

Income Taxes

There are transactions that occur during the ordinary course of business for which the ultimate tax determination is uncertain. As of September 30, 2021 and December 31, 2020, the aggregate balances of our gross unrecognized tax benefits were \$411 million and \$380 million, respectively, of which \$359 million and \$353 million, respectively, would not give rise to changes in our effective tax rate since these tax benefits would increase a deferred tax asset that is currently fully offset by a valuation allowance.

The local government of Shanghai granted a beneficial corporate income tax rate of 15% to certain eligible enterprises, compared to the 25% statutory corporate income tax rate in China. Our Gigafactory Shanghai subsidiary was granted this beneficial income tax rate of 15% for 2019 through 2023.

We file income tax returns in the U.S., California and various state and foreign jurisdictions. We are currently under examination by the IRS for the years 2015 to 2018. Additional tax years within the periods 2004 to 2014 and 2019 to 2020 remain subject to examination for federal income tax purposes, and 2004 and subsequent tax years remain subject to examination for California income tax purposes. All net operating losses and tax credits generated to date are subject to adjustment for U.S. federal and California income tax purposes. Our returns for 2008 and subsequent tax years remain subject to examination in other U.S. state and foreign jurisdictions.

The potential outcome of the current examination could result in a change to unrecognized tax benefits within the next twelve months. However, we cannot reasonably estimate possible adjustments at this time.

Net Income per Share of Common Stock Attributable to Common Stockholders

Basic net income per share of common stock attributable to common stockholders is calculated by dividing net income attributable to common stockholders by the weighted-average shares of common stock outstanding for the period. Potentially dilutive shares, which are based on the weighted-average shares of common stock underlying outstanding stock-based awards, warrants and convertible senior notes using the treasury stock method or the if-converted method, as applicable, are included when calculating diluted net income per share of common stock attributable to common stockholders when their effect is dilutive.

On January 1, 2021, we adopted ASU 2020-06 using the modified retrospective method. Following this adoption, we utilize the if-converted method for diluted net income per share calculation of our convertible debt instruments (see *Recent Accounting Pronouncements* section below for further details). During the three and nine months ended September 30, 2021, we increased net income attributable to common stockholders by \$1 million and \$8 million, respectively, to arrive at the numerator used to calculate diluted net income per share, which represents the interest expense recognized on the convertible debt instruments that were subject to this change in methodology.

Prior to the adoption, we applied the treasury stock method when calculating the potential dilutive effect, if any, of the following convertible senior notes which we intended to settle or have settled in cash the principal outstanding. Furthermore, in connection with the offerings of our convertible senior notes, we entered into convertible note hedges and warrants (see Note 10, *Debt*). However, our convertible note hedges are not included when calculating potentially dilutive shares since their effect is always anti-dilutive. The strike price on the warrants were below our average share price during the period and were in the money and included in the tables below. Warrants have been included in the weighted-average shares used in computing basic net income per share of common stock in the period(s) they are settled.

The following table presents the reconciliation of basic to diluted weighted average shares used in computing net income per share of common stock attributable to common stockholders (in millions):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Weighted average shares used in computing net income per share of common stock, basic	998	937	977	927
Add:				
Stock-based awards	98	74	101	59
Convertible senior notes (1)	4	52	12	45
Warrants	23	42	40	28
Weighted average shares used in computing net income per share of common stock, diluted	<u>1,123</u>	<u>1,105</u>	<u>1,130</u>	<u>1,059</u>

The following table presents the potentially dilutive shares that were excluded from the computation of diluted net income per share of common stock attributable to common stockholders, because their effect was anti-dilutive (in millions):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Stock-based awards	0	1	0	0
Convertible senior notes (1)	0	0	0	1

(1) Under the modified retrospective method of adoption of ASU 2020-06, the dilutive impact of convertible senior notes was calculated using the if-converted method for the three and nine months ended September 30, 2021. Certain convertible senior notes were calculated using the treasury stock method for the three and nine months ended September 30, 2020. Refer to discussion above for further details.

Restricted Cash

We maintain certain cash balances restricted as to withdrawal or use. Our restricted cash is comprised primarily of cash held to service certain payments under various secured debt facilities. In addition, restricted cash includes cash held as collateral for certain permits as well as sales to lease partners with a resale value guarantee, letters of credit, real estate leases, insurance policies, credit card borrowing facilities, certain operating leases and cash received from certain fund investors that have not been released for use by us. We record restricted cash as other assets in the consolidated balance sheets and determine current or non-current classification based on the expected duration of the restriction.

Our total cash and cash equivalents and restricted cash, as presented in the consolidated statements of cash flows, was as follows (in millions):

	September 30, 2021	December 31, 2020	September 30, 2020	December 31, 2019
Cash and cash equivalents	\$ 16,065	\$ 19,384	\$ 14,531	\$ 6,268
Restricted cash included in prepaid expenses and other current assets	327	238	174	246
Restricted cash included in other non-current assets	302	279	298	269
Total as presented in the consolidated statements of cash flows	<u>\$ 16,694</u>	<u>\$ 19,901</u>	<u>\$ 15,003</u>	<u>\$ 6,783</u>

Marketable Securities

Marketable securities may be comprised of a combination of U.S government securities and corporate debt securities and are all designated as available-for-sale and reported at estimated fair value, with unrealized gains and losses recorded in accumulated other comprehensive income which is included within stockholders' equity. Available-for-sale marketable securities with maturities greater than three months at the date of purchase are included in short-term marketable securities on our consolidated balance sheet. Interest, dividends, amortization and accretion of purchase premiums and discounts on our marketable securities are included in other income (expense), net.

The cost of available-for-sale marketable securities sold is based on the specific identification method. Realized gains and losses on the sale of available-for-sale marketable securities are recorded in other income (expense), net.

We regularly review all of our marketable securities for declines in fair value. The review includes but is not limited to (i) the consideration of the cause of the decline, (ii) any currently recorded expected credit losses, and (iii) the creditworthiness of the respective security issuers.

Accounts Receivable and Allowance for Doubtful Accounts

Accounts receivable primarily include amounts related to receivables from financial institutions and leasing companies offering various financing products to our customers, sales of energy generation and storage products, sales of regulatory credits to other automotive manufacturers, government rebates already passed through to customers and maintenance services on vehicles owned by leasing companies. We provide an allowance against accounts receivable for the amount we expect to be uncollectible. We write-off accounts receivable against the allowance when they are deemed uncollectible.

Depending on the day of the week on which the end of a fiscal quarter falls, our accounts receivable balance may fluctuate as we are waiting for certain customer payments to clear through our banking institutions and receipts of payments from our financing partners, which can take up to approximately two weeks based on the contractual payment terms with such partners. Our accounts receivable balances associated with our sales of regulatory credits, which are typically transferred to other manufacturers during the last few days of the quarter, is dependent on contractual payment terms. Additionally, government rebates can take up to a year or more to be collected depending on the customary processing timelines of the specific jurisdictions issuing them. These various factors may have a significant impact on our accounts receivable balance from period to period. As of September 30, 2021 and December 31, 2020, we had \$384 million and \$46 million of long-term government rebates receivables in Other non-current assets on our consolidated balance sheets.

MyPower Customer Notes Receivable

As of September 30, 2021 and December 31, 2020, the total outstanding balance of MyPower customer notes receivable, net of allowance for credit losses, was \$304 million and \$334 million, respectively, of which \$11 million and \$9 million were due in the next 12 months as of September 30, 2021 and December 31, 2020, respectively. As of September 30, 2021 and December 31, 2020, the allowance for credit losses was \$45 million. In addition, there were no material non-accrual or past due customer notes receivable as of September 30, 2021 and December 31, 2020.

Concentration of Risk

Credit Risk

Financial instruments that potentially subject us to a concentration of credit risk consist of cash, cash equivalents, marketable securities, restricted cash, accounts receivable, convertible note hedges, and interest rate swaps. Our cash balances are primarily invested in money market funds or on deposit at high credit quality financial institutions in the U.S. These deposits are typically in excess of insured limits. As of September 30, 2021 and December 31, 2020, no entity represented 10% or more of our total accounts receivable balance. The risk of concentration for our convertible note hedges and interest rate swaps is mitigated by transacting with several highly-rated multinational banks.

Supply Risk

We are dependent on our suppliers, including single source suppliers, and the inability of these suppliers to deliver necessary components of our products in a timely manner at prices, quality levels and volumes acceptable to us, or our inability to efficiently manage these components from these suppliers, could have a material adverse effect on our business, prospects, financial condition and operating results.

Operating Lease Vehicles

The gross cost of operating lease vehicles as of September 30, 2021 and December 31, 2020 was \$4.85 billion and \$3.54 billion, respectively. Operating lease vehicles on the consolidated balance sheets are presented net of accumulated depreciation of \$683 million and \$446 million as of September 30, 2021 and December 31, 2020, respectively.

Digital Assets, Net

During the nine months ended September 30, 2021, we purchased an aggregate of \$1.50 billion in bitcoin. In addition, during the three months ended March 31, 2021, we accepted bitcoin as a payment for sales of certain of our products in specified regions, subject to applicable laws, and suspended this practice in May 2021. We may in the future restart the practice of transacting in cryptocurrencies ("digital assets") for our products and services. We account for such non-cash consideration at the time we enter into transactions with our customers in accordance with the non-cash consideration guidance included in the Accounting Standards Codification ("ASC") 606, *Revenue from Contracts with Customers*, based on the then current quoted market prices of the digital assets.

We currently account for all digital assets held as a result of these transactions as indefinite-lived intangible assets in accordance with ASC 350, *Intangibles—Goodwill and Other*. We have ownership of and control over our digital assets and we may use third-party custodial services to secure it. The digital assets are initially recorded at cost and are subsequently remeasured on the consolidated balance sheet at cost, net of any impairment losses incurred since acquisition.

We determine the fair value of our digital assets on a nonrecurring basis in accordance with ASC 820, *Fair Value Measurement*, based on quoted prices on the active exchange(s) that we have determined is the principal market for such assets (Level 1 inputs). We perform an analysis each quarter to identify whether events or changes in circumstances, principally decreases in the quoted prices on active exchanges, indicate that it is more likely than not that our digital assets are impaired. In determining if an impairment has occurred, we consider the lowest market price of one unit of digital asset quoted on the active exchange since acquiring the digital asset. If the then current carrying value of a digital asset exceeds the fair value so determined, an impairment loss has occurred with respect to those digital assets in the amount equal to the difference between their carrying values and the price determined.

Impairment losses are recognized within Restructuring and other in the consolidated statements of operations in the period in which the impairment is identified. The impaired digital assets are written down to their fair value at the time of impairment and this new cost basis will not be adjusted upward for any subsequent increase in fair value. Gains are not recorded until realized upon sale(s), at which point they are presented net of any impairment losses for the same digital assets held within Restructuring and other. In determining the gain to be recognized upon sale, we calculate the difference between the sales price and carrying value of the digital assets sold immediately prior to sale.

See Note 3, *Digital Assets, Net*, for further information regarding digital assets.

Warranties

We provide a manufacturer's warranty on all new and used vehicles and a warranty on the installation and components of the energy generation and storage systems we sell for periods typically between 10 to 25 years. We accrue a warranty reserve for the products sold by us, which includes our best estimate of the projected costs to repair or replace items under warranties and recalls if identified. These estimates are based on actual claims incurred to date and an estimate of the nature, frequency and costs of future claims. These estimates are inherently uncertain given our relatively short history of sales, and changes to our historical or projected warranty experience may cause material changes to the warranty reserve in the future. The warranty reserve does not include projected warranty costs associated with our vehicles subject to operating lease accounting and our solar energy systems under lease contracts or Power Purchase Agreements ("PPAs"), as the costs to repair these warranty claims are expensed as incurred. The portion of the warranty reserve expected to be incurred within the next 12 months is included within Accrued liabilities and other, while the remaining balance is included within Other long-term liabilities on the consolidated balance sheets. Warranty expense is recorded as a component of Cost of revenues in the consolidated statements of operations. Due to the magnitude of our automotive business, accrued warranty balance is primarily related to our automotive segment. Accrued warranty activity consisted of the following (in millions):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Accrued warranty—beginning of period	\$ 1,691	\$ 1,197	\$ 1,468	\$ 1,089
Warranty costs incurred	(140)	(77)	(381)	(220)
Net changes in liability for pre-existing warranties, including expirations and foreign exchange impact	(64)	(26)	(22)	6
Provision for warranty	249	175	671	394
Accrued warranty—end of period	<u>\$ 1,736</u>	<u>\$ 1,269</u>	<u>\$ 1,736</u>	<u>\$ 1,269</u>

Recent Accounting Pronouncements

Recently adopted accounting pronouncements

In December 2019, the FASB issued ASU No. 2019-12, Simplifying the Accounting for Income Taxes, as part of its initiative to reduce complexity in accounting standards. The amendments in the ASU include removing exceptions to incremental intraperiod tax allocation of losses and gains from different financial statement components, exceptions to the method of recognizing income taxes on interim period losses, and exceptions to deferred tax liability recognition related to foreign subsidiary investments. In addition, the ASU requires that entities recognize franchise tax based on an incremental method and requires an entity to evaluate the accounting for step-ups in the tax basis of goodwill as inside or outside of a business combination. We adopted ASU 2019-12 starting 2021, which did not have a material impact on our consolidated financial statements.

In March 2020, the FASB issued ASU No. 2020-04, Facilitation of the Effects of Reference Rate Reform on Financial Reporting (Topic 848). The ASU provides optional expedients and exceptions for applying GAAP to transactions affected by reference rate (e.g., LIBOR) reform if certain criteria are met, for a limited period of time to ease the potential burden in accounting for (or recognizing the effects of) reference rate reform on financial reporting. The ASU is effective as of March 12, 2020 through December 31, 2022. We continue to evaluate transactions or contract modifications occurring as a result of reference rate reform and determine whether to apply the optional guidance on an ongoing basis. We adopted ASU 2020-04 during 2021. The ASU has not and is currently not expected to have a material impact on our consolidated financial statements.

In May 2021, the FASB issued ASU No. 2021-04, Issuer's Accounting for Certain Modifications or Exchanges of Freestanding Equity-Classified Written Call Options. The ASU addresses the previous lack of specific guidance in the accounting standards codification related to modifications or exchanges of freestanding equity-classified written call options (such as warrants) by specifying the accounting for various modification scenarios. The ASU is effective for interim and annual periods beginning after December 15, 2021, with early adoption permitted for any periods after issuance to be applied as of the beginning of the fiscal year that includes the interim period. We adopted the ASU during 2021 as of the beginning of our fiscal year, which did not have a material impact on our consolidated financial statements.

ASU 2020-06

In August 2020, the FASB issued ASU 2020-06, Accounting for Convertible Instruments and Contracts in an Entity's Own Equity. The ASU simplifies the accounting for convertible instruments by removing certain separation models in ASC 470-20, Debt—Debt with Conversion and Other Options, for convertible instruments. The ASU updates the guidance on certain embedded conversion features that are not required to be accounted for as derivatives under Topic 815, Derivatives and Hedging, or that do not result in substantial premiums accounted for as paid-in capital, such that those features are no longer required to be separated from the host contract. The convertible debt instruments will be accounted for as a single liability measured at amortized cost. This will also result in the interest expense recognized for convertible debt instruments to be typically closer to the coupon interest rate when applying the guidance in Topic 835, Interest. Further, the ASU made amendments to the EPS guidance in Topic 260 for convertible debt instruments, the most significant impact of which is requiring the use of the if-converted method for diluted EPS calculation, and no longer allowing the net share settlement method. The ASU also made revisions to Topic 815-40, which provides guidance on how an entity must determine whether a contract qualifies for a scope exception from derivative accounting. The amendments to Topic 815-40 change the scope of contracts that are recognized as assets or liabilities. The ASU is effective for interim and annual periods beginning after December 15, 2021, with early adoption permitted for periods beginning after December 15, 2020. Adoption of the ASU can either be on a modified retrospective or full retrospective basis.

On January 1, 2021, we adopted the ASU using the modified retrospective method. We recognized a cumulative effect of initially applying the ASU as an adjustment to the January 1, 2021 opening balance of accumulated deficit. Due to the recombination of the equity conversion component of our convertible debt remaining outstanding, additional paid in capital and convertible senior notes (mezzanine equity) were reduced. The removal of the remaining debt discounts recorded for this previous separation had the effect of increasing our net debt balance and the reduction of property, plant and equipment was related to previously capitalized interest. The prior period consolidated financial statements have not been retrospectively adjusted and continue to be reported under the accounting standards in effect for those periods.

Accordingly, the cumulative effect of the changes made on our January 1, 2021 consolidated balance sheet for the adoption of the ASU was as follows (in millions):

	Balances at December 31, 2020	Adjustments from Adoption of ASU 2020-06	Balances at January 1, 2021
Assets			
Property, plant and equipment, net	\$ 12,747	\$ (45)	\$ 12,702
Liabilities			
Current portion of debt and finance leases	2,132	50	2,182
Debt and finance leases, net of current portion	9,556	219	9,775
Mezzanine equity			
Convertible senior notes	51	(51)	—
Equity			
Additional paid-in capital	27,260	(474)	26,786
Accumulated deficit	(5,399)	211	(5,188)

The impact of adoption on our consolidated statements of operations for the three and nine months ended September 30, 2021 was primarily to decrease net interest expense by \$5 million and \$196 million, respectively, and to decrease depreciation expense by immaterial amounts. This had the effect of increasing our basic and diluted net income per share of common stock attributable to common stockholders by \$0.01 for the three months ended September 30, 2021 and by \$0.21 and \$0.19, respectively, for the nine months ended September 30, 2021. The change in methodology to determine the denominator used in the calculation of diluted net income per share of common stock attributable to common stockholders contributed less than \$0.01 of the increase by requiring the use of the if-converted method as discussed above for the three and nine months ended September 30, 2021.

Note 3 – Digital Assets, Net

During the nine months ended September 30, 2021, we purchased and received \$1.50 billion of bitcoin. During the three and nine months ended September 30, 2021, we recorded \$51 million and \$101 million, respectively, of impairment losses on such digital assets. We also realized gains of \$128 million in March 2021. Such gains are presented net of impairment losses in Restructuring and other in the consolidated statement of operations. As of September 30, 2021, the carrying value of our digital assets held was \$1.26 billion, which reflects cumulative impairments of \$101 million. The fair market value of such digital assets held as of September 30, 2021 was \$1.83 billion.

Note 4 – Intangible Assets

Information regarding our intangible assets including assets recognized from our acquisitions was as follows (in millions):

	September 30, 2021				December 31, 2020			
	Gross Carrying Amount	Accumulated Amortization	Other	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Other	Net Carrying Amount
Finite-lived intangible assets:								
Developed technology	\$ 299	\$ (141)	\$ 3	\$ 161	\$ 302	\$ (111)	\$ 3	\$ 194
Trade names	2	(1)	—	1	3	(1)	—	2
Favorable contracts and leases, net	113	(38)	—	75	113	(32)	—	81
Other	36	(20)	1	17	38	(18)	1	21
Total finite-lived intangible assets	450	(200)	4	254	456	(162)	4	298
Indefinite-lived intangible assets:								
GigaFactory Nevada water rights	15	—	—	15	15	—	—	15
Total intangible assets	\$ 465	\$ (200)	\$ 4	\$ 269	\$ 471	\$ (162)	\$ 4	\$ 313

Total future amortization expense for finite-lived intangible assets was estimated as follows (in millions):

Three months ending December 31, 2021	\$ 12
2022	49
2023	43
2024	28
2025	28
Thereafter	94
Total	\$ 254

Note 5 – Fair Value of Financial Instruments

ASC 820, *Fair Value Measurements*, states that fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or a liability. The three-tiered fair value hierarchy, which prioritizes which inputs should be used in measuring fair value, is comprised of: (Level I) observable inputs such as quoted prices in active markets; (Level II) inputs other than quoted prices in active markets that are observable either directly or indirectly and (Level III) unobservable inputs for which there is little or no market data. The fair value hierarchy requires the use of observable market data when available in determining fair value. Our assets and liabilities that were measured at fair value on a recurring basis were as follows (in millions):

	September 30, 2021				December 31, 2020			
	Fair Value	Level I	Level II	Level III	Fair Value	Level I	Level II	Level III
Money market funds (cash and cash equivalents)	\$ 8,586	\$ 8,586	\$ —	\$ —	\$ 13,847	\$ 13,847	\$ —	\$ —
U.S. government securities (cash and cash equivalents)	100	—	100	—	—	—	—	—
Corporate debt securities (short-term marketable securities)	30	—	30	—	—	—	—	—
Interest rate swap liabilities	32	—	32	—	58	—	58	—
Total	\$ 8,748	\$ 8,586	\$ 162	\$ —	\$ 13,905	\$ 13,847	\$ 58	\$ —

All of our money market funds were classified within Level I of the fair value hierarchy because they were valued using quoted prices in active markets. Our U.S. government securities and marketable securities are classified within Level II of the fair value hierarchy and the market approach was used to determine fair value of these investments. Our interest rate swaps were classified within Level II of the fair value hierarchy because they were valued using alternative pricing sources or models that utilized market observable inputs, including current and forward interest rates.

Interest Rate Swaps

We enter into fixed-for-floating interest rate swap agreements to swap variable interest payments on certain debt for fixed interest payments, as required by certain of our lenders. We do not designate our interest rate swaps as hedging instruments. Accordingly, our interest rate swaps are recorded at fair value on the consolidated balance sheets within Other non-current assets or Other long-term liabilities, with any changes in their fair values recognized as Other income (expense), net, in the consolidated statements of operations and with any cash flows recognized as operating activities in the consolidated statements of cash flows. Our interest rate swaps outstanding were as follows (in millions):

	Aggregate Notional Amount	September 30, 2021 Gross Asset at Fair Value	Gross Liability at Fair Value	Aggregate Notional Amount	December 31, 2020 Gross Asset at Fair Value	Gross Liability at Fair Value
Interest rate swaps	\$ 312	\$ —	\$ 32	\$ 554	\$ —	\$ 58

Our interest rate swaps activity was as follows (in millions):

	Three Months Ended September 30, 2021			Nine Months Ended September 30, 2021		
Gross losses	\$ —	\$ —	\$ —	\$ 9	\$ 42	\$ 42
Gross gains	\$ 1	\$ 1	\$ 1	\$ 21	\$ 1	\$ 1

Disclosure of Fair Values

Our financial instruments that are not re-measured at fair value include accounts receivable, MyPower customer notes receivable, accounts payable, accrued liabilities, customer deposits and debt. The carrying values of these financial instruments other than our 1.25% Convertible Senior Notes due in 2021 (“2021 Notes”), 2.375% Convertible Senior Notes due in 2022 (“2022 Notes”), 2.00% Convertible Senior Notes due in 2024 (“2024 Notes”) and our subsidiary’s 5.50% Convertible Senior Notes due in 2022 (collectively referred to as “Convertible Senior Notes” below), 5.30% Senior Notes due in 2025 (“2025 Notes”), Solar Asset-backed Notes and Solar Loan-backed Notes approximate their fair values.

We estimate the fair value of the Convertible Senior Notes and the 2025 Notes using commonly accepted valuation methodologies and market-based risk measurements that are indirectly observable, such as credit risk (Level II). In addition, we estimate the fair values of our Solar Asset-backed Notes and Solar Loan-backed Notes based on rates currently offered for instruments with similar maturities and terms (Level III). The following table presents the estimated fair values and the carrying values (in millions):

	September 30, 2021		December 31, 2020	
	Carrying Value	Fair Value	Carrying Value	Fair Value
Convertible Senior Notes	\$ 228	\$ 2,814	\$ 1,971	\$ 24,596
2025 Notes	\$ —	\$ —	\$ 1,785	\$ 1,877
Solar Asset-backed Notes	\$ 1,080	\$ 1,101	\$ 1,115	\$ 1,137
Solar Loan-backed Notes	\$ 108	\$ 115	\$ 146	\$ 152

Note 6 – Inventory

Our inventory consisted of the following (in millions):

	September 30, 2021	December 31, 2020
Raw materials	\$ 2,355	\$ 1,508
Work in process	1,061	493
Finished goods (1)	1,252	1,666
Service parts	531	434
Total	<u>\$ 5,199</u>	<u>\$ 4,101</u>

(1) Finished goods inventory includes vehicles in transit to fulfill customer orders, new vehicles available for sale, used vehicles, energy storage products and Solar Roof products available for sale.

For solar energy systems, we commence transferring component parts from inventory to construction in progress, a component of solar energy systems, once a lease or PPA contract with a customer has been executed and installation has been initiated. Additional costs incurred on the leased solar energy systems, including labor and overhead, are recorded within solar energy systems under construction.

We write-down inventory for any excess or obsolete inventories or when we believe that the net realizable value of inventories is less than the carrying value. During the three and nine months ended September 30, 2021, we recorded write-downs of \$36 million and \$106 million, respectively, in cost of revenues and research and development expense in the consolidated statements of operations. During the three and nine months ended September 30, 2020, we recorded write-downs of \$26 million and \$108 million, respectively, in cost of revenues in the consolidated statements of operations.

Note 7 – Property, Plant and Equipment, Net

Our property, plant and equipment, net, consisted of the following (in millions):

	September 30, 2021	December 31, 2020
Machinery, equipment, vehicles and office furniture	\$ 9,458	\$ 8,493
Tooling	2,120	1,811
Leasehold improvements	1,706	1,421
Land and buildings	3,853	3,662
Computer equipment, hardware and software	1,284	856
Construction in progress	5,109	1,621
	23,530	17,864
Less: Accumulated depreciation	(6,232)	(5,117)
Total	<u>\$ 17,298</u>	<u>\$ 12,747</u>

Construction in progress is primarily comprised of construction of Gigafactory Berlin and Gigafactory Texas, expansion of Gigafactory Shanghai and equipment and tooling related to the manufacturing of our products. We are currently constructing Gigafactory Berlin under conditional permits in anticipation of being granted final permits. Completed assets are transferred to their respective asset classes, and depreciation begins when an asset is ready for its intended use. Interest on outstanding debt is capitalized during periods of significant capital asset construction and amortized over the useful lives of the related assets. During the three and nine months ended September 30, 2021, we capitalized \$14 million and \$52 million, respectively, of interest. During the three and nine months ended September 30, 2020, we capitalized \$13 million and \$33 million, respectively, of interest.

Depreciation expense during the three and nine months ended September 30, 2021 was \$495 million and \$1.38 billion, respectively. Depreciation expense during the three and nine months ended September 30, 2020 was \$403 million and \$1.13 billion, respectively. Gross property, plant and equipment under finance leases as of September 30, 2021 and December 31, 2020 was \$2.60 billion and \$2.28 billion, respectively, with accumulated depreciation of \$1.11 billion and \$816 million, respectively.

Panasonic has partnered with us on Gigafactory Nevada with investments in the production equipment that it uses to manufacture and supply us with battery cells. Under our arrangement with Panasonic, we plan to purchase the full output from their production equipment at negotiated prices. As the terms of the arrangement convey a finance lease under ASC 842, *Leases*, we account for their production equipment as leased assets when production commences. We account for each lease and any non-lease components associated with that lease as a single lease component for all asset classes, except production equipment classes embedded in supply agreements. This results in us recording the cost of their production equipment within Property, plant and equipment, net, on the consolidated balance sheets with a corresponding liability recorded to debt and finance leases. Depreciation on Panasonic production equipment is computed using the units-of-production method whereby capitalized costs are amortized over the total estimated productive life of the respective assets. As of September 30, 2021 and December 31, 2020, we had cumulatively capitalized costs of \$1.89 billion and \$1.77 billion, respectively, on the consolidated balance sheets in relation to the production equipment under our Panasonic arrangement.

Note 8 – Accrued Liabilities and Other

As of September 30, 2021 and December 31, 2020, accrued liabilities and other current liabilities consisted of the following (in millions):

	September 30, 2021	December 31, 2020
Accrued purchases (1)	\$ 1,867	\$ 901
Taxes payable (2)	1,084	777
Payroll and related costs	823	654
Accrued warranty reserve, current portion	621	479
Sales return reserve, current portion	386	417
Operating lease liabilities, current portion	343	286
Accrued interest	18	77
Other current liabilities	301	264
Total	<u>\$ 5,443</u>	<u>\$ 3,855</u>

(1) Accrued purchases primarily reflects receipts of goods and services that we had not been invoiced yet. As we are invoiced for these goods and services, this balance will reduce and accounts payable will increase.

(2) Taxes payable includes value added tax, sales tax, property tax, use tax and income tax payables.

Note 9 – Other Long-Term Liabilities

As of September 30, 2021 and December 31, 2020, other long-term liabilities consisted of the following (in millions):

	September 30, 2021	December 31, 2020
Operating lease liabilities	\$ 1,629	\$ 1,254
Accrued warranty reserve	1,115	989
Sales return reserve	325	500
Deferred tax liability	40	151
Other non-current liabilities	377	436
Total other long-term liabilities	<u>\$ 3,486</u>	<u>\$ 3,330</u>

Note 10 – Debt

The following is a summary of our debt and finance leases as of September 30, 2021 (in millions):

	Net Carrying Value		Unpaid	Unused	Contractual	Contractual
	Current	Long-Term	Principal	Committed	Interest Rates	Maturity Date
			Balance	Amount (1)		
Recourse debt:						
2022 Notes	\$ 86	\$ —	\$ 87	\$ —	2.375 %	March 2022
2024 Notes	6	136	143	—	2.00 %	May 2024
Credit Agreement	—	1,865	1,865	284	3.3 %	July 2023
Solar Bonds and other Loans	1	7	8	—	4.0-5.8 %	October 2021-January 2031
Total recourse debt	93	2,008	2,103	284		
Non-recourse debt:						
Automotive Asset-backed Notes	1,033	1,890	2,934	—	0.1%-5.5 %	April 2022-September 2025
Solar Asset-backed Notes	43	1,037	1,106	—	2.9%-7.7 %	September 2024-February 2048
Cash Equity Debt	23	397	431	—	5.3-5.8 %	July 2033-January 2035
Solar Loan-backed Notes	15	93	114	—	4.8-7.5 %	September 2048-September 2049
Automotive Lease-backed Credit Facilities	—	—	—	169	Not applicable	September 2023
Other Loans	—	14	14	22	5.1 %	February 2033
Total non-recourse debt	1,114	3,431	4,599	191		
Total debt	1,207	5,439	<u>\$ 6,702</u>	<u>\$ 475</u>		
Finance leases	509	999				
Total debt and finance leases	<u>\$ 1,716</u>	<u>\$ 6,438</u>				

The following is a summary of our debt and finance leases as of December 31, 2020 (in millions):

	Net Carrying Value		Unpaid	Unused	Contractual	Contractual
	Current	Long-Term	Principal	Committed	Interest Rates	Maturity Date
			Balance	Amount (1)		
Recourse debt:						
2021 Notes	\$ 419	\$ —	\$ 422	\$ —	1.25 %	March 2021
2022 Notes	115	366	503	—	2.375 %	March 2022
2024 Notes	171	856	1,282	—	2.00 %	May 2024
2025 Notes	—	1,785	1,800	—	5.30 %	August 2025
Credit Agreement	—	1,895	1,895	278	3.3 %	July 2023
Solar Bonds and other Loans	4	49	55	—	3.6%-5.8 %	January 2021 - January 2031
Total recourse debt	709	4,951	5,957	278		
Non-recourse debt:						
Automotive Asset-backed Notes	777	921	1,705	—	0.6%-7.9 %	August 2021-August 2024
Solar Asset-backed Notes	39	1,076	1,141	—	3.0%-7.7 %	September 2024-February 2048
China Loan Agreements	—	616	616	1,372	4.0 %	June 2021-December 2024
Cash Equity Debt	18	408	439	—	5.3%-5.8 %	July 2033-January 2035
Solar Loan-backed Notes	13	133	152	—	4.8%-7.5 %	September 2048-September 2049
Warehouse Agreements	37	257	294	806	1.7%-1.8 %	September 2022
Solar Term Loan	151	—	151	—	3.7 %	January 2021
Automotive Lease-backed Credit Facility	14	19	33	153	1.9%-5.9 %	September 2022-November 2022
Solar Revolving Credit Facility and other Loans	—	81	81	23	2.7%-5.1 %	June 2022-February 2033
Total non-recourse debt	1,049	3,511	4,612	2,354		
Total debt	1,758	8,462	<u>\$ 10,569</u>	<u>\$ 2,632</u>		
Finance leases	374	1,094				
Total debt and finance leases	<u>\$ 2,132</u>	<u>\$ 9,556</u>				

(1) There are no restrictions on draw-down or use for general corporate purposes with respect to any available committed funds under our credit facilities, except certain specified conditions prior to draw-down, including pledging to our lenders sufficient amounts of qualified receivables, inventories, leased vehicles and our interests in those leases, solar energy systems and the associated customer contracts or various other assets and as may be described below and in the notes to the consolidated financial statements included in our report on Form 10-K for the year ended December 31, 2020.

Recourse debt refers to debt that is recourse to our general assets. Non-recourse debt refers to debt that is recourse to only assets of our subsidiaries. The differences between the unpaid principal balances and the net carrying values are due to debt discounts or deferred financing costs. The debt discounts were updated as of January 1, 2021 for our convertible notes with the adoption of ASU 2020-06 as discussed in Note 2, *Summary of Significant Accounting Policies*. As of September 30, 2021, we were in material compliance with all financial debt covenants.

2021 Notes, 2022 Notes and 2024 Notes

During each of the quarters of 2021 through September 30, 2021, the closing price of our common stock continued to exceed 130% of the applicable conversion price of each of our 2022 Notes and 2024 Notes on at least 20 of the last 30 consecutive trading days of the quarter; causing the 2022 Notes and 2024 Notes to be convertible by their holders during the second, third and fourth quarters of 2021. As we now expect to settle a portion of the 2024 Notes in the fourth quarter of 2021, we reclassified \$6 million of the carrying value of the 2024 Notes from debt and finance leases, net of current portion to current portion of debt and finance leases on our consolidated balance sheet as of September 30, 2021. Should the closing price conditions continue to be met in a future quarter for the 2024 Notes, the 2024 Notes will be convertible at their holders' option during the immediately following quarter. In addition, the 2022 Notes will be convertible at their holders' option regardless of the closing price condition on or after December 15, 2021.

On January 1, 2021, we adopted ASU 2020-06 using the modified retrospective method. As a result of this adoption, we have de-recognized the remaining debt discounts on the 2022 Notes and 2024 Notes and therefore no longer recognize any amortization of debt discounts as interest expense (see Note 2, *Summary of Significant Accounting Policies*). During the nine months ended September 30, 2021, \$422 million, \$416 million and \$1.14 billion in aggregate principal amount of the 2021 Notes, 2022 Notes and 2024 Notes, respectively, were converted and settled for \$422 million, \$416 million and \$1.14 billion in cash for their par amount, and the issuance of 5.3 million, 5.7 million and 16.8 million shares of our common stock for the applicable conversion premium, respectively. The note hedges we entered into in connection with the issuance of the 2021 Notes, 2022 Notes and 2024 Notes were automatically settled with the respective conversions of the 2021 Notes, 2022 Notes and 2024 Notes, resulting in the receipt of 5.3 million, 5.7 million and 16.8 million shares of our common stock, respectively, during the nine months ended September 30, 2021. In March 2021, the 2021 Notes were fully settled. Additionally, during the second and third quarters of 2021, we fully settled the warrants entered into in connection with the issuance of the 2021 Notes and partially settled the warrants entered into in connection with the issuance of the 2024 Notes, resulting in the issuance of 15.8 million and 18.7 million shares of our common stock, respectively.

2025 Notes

In August 2021, we fully repaid the \$1.80 billion in aggregate principal of the 2025 Notes and recorded an extinguishment of debt charge of \$60 million related to the redemption.

Automotive Asset-backed Notes and Warehouse Agreements

In March 2021, we transferred beneficial interests related to certain leased vehicles into an SPE and issued \$1.08 billion in aggregate principal amount of Automotive Asset-backed Notes, with terms similar to our other, previously issued, Automotive Asset-backed Notes. The proceeds from the issuance, net of discounts and fees, were \$1.07 billion. In conjunction with this financing we repaid the remaining outstanding balance of our vehicle lease-backed loan and security agreement (the "2016 Warehouse Agreement"), for which committed funds remained available for future borrowings. During the third quarter of 2021, we terminated the 2016 Warehouse Agreement and the committed funds are no longer available for future borrowings.

In September 2021, we transferred beneficial interests related to certain leased vehicles into an SPE and issued \$904 million in aggregate principal amount of Automotive Asset-backed Notes, with terms similar to our other, previously issued, Automotive Asset-backed Notes. The proceeds from the issuance, net of discounts and fees, were \$900 million.

Solar Asset-backed Notes and Solar Loan-backed Notes

In October 2021, we early repaid \$321 million and \$53 million in aggregate principal of the Solar Asset-backed Notes and the Solar Loan-backed Notes, respectively.

China Loan Agreements

In April 2021, we fully repaid the \$614 million in aggregate principal of our secured term loan facility in connection with the construction of Gigafactory Shanghai (the "Fixed Asset Facility") and the facility was terminated.

In June 2021, our Working Capital Loan Contract entered in May 2020 (the "2020 China Working Capital Facility") matured and the facility was terminated.

Solar Term Loan

In January 2021, our Solar Term Loan matured and was repaid.

Automotive Lease-backed Credit Facilities

In June 2021, we fully repaid \$32 million in aggregate principal of our Automotive Lease-backed Credit Facilities and terminated one of the facilities.

Solar Revolving Credit Facility and other Loans

In April 2021, we fully repaid the \$67 million in aggregate principal of our Solar Revolving Credit Facility and the facility was terminated.

Interest Expense

The following table presents the interest expense related to the contractual interest coupon, the amortization of debt issuance costs and the amortization of debt discounts on our convertible senior notes with cash conversion features, which include the 2021 Notes, the 2022 Notes and the 2024 Notes (in millions):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Contractual interest coupon	\$ 1	\$ 19	\$ 11	\$ 58
Amortization of debt issuance costs	1	2	4	5
Amortization of debt discounts (1)	—	50	—	138
Total	<u>\$ 2</u>	<u>\$ 71</u>	<u>\$ 15</u>	<u>\$ 201</u>

(1) Under the modified retrospective method of adoption of ASU 2020-06, there was neither amortization of debt discounts, nor losses on extinguishment of debt recognized for the three and nine months ended September 30, 2021. Refer to discussion above for further details.

Note 11 – Equity Incentive Plans

2018 CEO Performance Award

In March 2018, our stockholders approved the Board of Directors’ grant of 101.3 million stock option awards, as adjusted to give effect to the five-for-one stock split effected in the form of a stock dividend in August 2020, to our CEO (the “2018 CEO Performance Award”). The 2018 CEO Performance Award consists of 12 vesting tranches with a vesting schedule based entirely on the attainment of both operational milestones (performance conditions) and market conditions, assuming continued employment either as the CEO or as both Executive Chairman and Chief Product Officer and service through each vesting date. Each of the 12 vesting tranches of the 2018 CEO Performance Award will vest upon certification by the Board of Directors that both (i) the market capitalization milestone for such tranche, which begins at \$100.0 billion for the first tranche and increases by increments of \$50.0 billion thereafter (based on both a six calendar month trailing average and a 30 calendar day trailing average, counting only trading days), has been achieved, and (ii) any one of the following eight operational milestones focused on total revenue or any one of the eight operational milestones focused on Adjusted EBITDA have been achieved for the four consecutive fiscal quarters on an annualized basis and subsequently reported by us in our consolidated financial statements filed with our Forms 10-Q and/or 10-K. Adjusted EBITDA is defined as net income (loss) attributable to common stockholders before interest expense, provision (benefit) for income taxes, depreciation and amortization and stock-based compensation. Upon vesting and exercise, including the payment of the exercise price of \$70.01 per share, our CEO must hold shares that he acquires for five years post-exercise, other than a cashless exercise where shares are simultaneously sold to pay for the exercise price and any required tax withholding.

The achievement status of the operational milestones as of September 30, 2021 is provided below. Although an operational milestone is deemed achieved in the last quarter of the relevant annualized period, it may be certified only after the financial statements supporting its achievement have been filed with our Forms 10-Q and/or 10-K.

Total Annualized Revenue			Annualized Adjusted EBITDA		
Milestone (in billions)		Achievement Status	Milestone (in billions)		Achievement Status
\$ 20.0		Achieved	\$ 1.5		Achieved
\$ 35.0		Achieved	\$ 3.0		Achieved
\$ 55.0		Probable	\$ 4.5		Achieved
\$ 75.0		-	\$ 6.0		Achieved
\$ 100.0		-	\$ 8.0		Achieved (1)
\$ 125.0		-	\$ 10.0		Probable
\$ 150.0		-	\$ 12.0		Probable
\$ 175.0		-	\$ 14.0		-

(1) Achieved in the third quarter of 2021 and expected to be certified following the filing of this Quarterly Report on Form 10-Q.

Stock-based compensation under the 2018 CEO Performance Award represents a non-cash expense and is recorded as a Selling, general, and administrative operating expense in our consolidated statement of operations. In each quarter since the grant of the 2018 CEO Performance Award, we have recognized expense, generally on a pro-rated basis, for only the number of tranches (up to the maximum of 12 tranches) that corresponds to the number of operational milestones that have been achieved or have been determined probable of being achieved in the future, in accordance with the following principles.

On the grant date, a Monte Carlo simulation was used to determine for each tranche (i) a fixed amount of expense for such tranche and (ii) the future time when the market capitalization milestone for such tranche was expected to be achieved, or its “expected market capitalization milestone achievement time.” Separately, based on a subjective assessment of our future financial performance, each quarter we determine whether it is probable that we will achieve each operational milestone that has not previously been achieved or deemed probable of achievement and if so, the future time when we expect to achieve that operational milestone, or its “expected operational milestone achievement time.” When we first determine that an operational milestone has become probable of being achieved, we allocate the entire expense for the related tranche over the number of quarters between the grant date and the then-applicable “expected full achievement time.” The “expected full achievement time” at any given time is the later of (i) the expected operational milestone achievement time (if the related operational milestone has not yet been achieved) and (ii) the expected market capitalization milestone achievement time (if the related market capitalization milestone had not yet been achieved). We immediately recognize a catch-up expense for all accumulated expense for the quarters from the grant date through the quarter in which the operational milestone was first deemed probable of being achieved. Each quarter thereafter, we recognize the prorated portion of the then-remaining expense for the tranche based on the number of quarters between such quarter and the then-applicable expected full achievement time, except that upon the achievement of both a market capitalization milestone and operational milestone with respect to a tranche, all remaining expense for that tranche is immediately recognized.

As a result, we have experienced, and may experience in the future, significant catch-up expenses in quarters when one or more operational milestones are first determined to be probable of being achieved. Historically, the expected market capitalization achievement times were generally later than the related expected operational milestone achievement times. Therefore, when market capitalization milestones are achieved earlier than originally forecasted, for example due to periods of rapid stock price appreciation, this has resulted, and may result in the future, in higher catch-up expenses and the remaining expenses being recognized over shorter periods of time at a higher per-quarter rate. All market capitalization milestones were achieved as of the second quarter of 2021.

During the first quarter of 2021, the operational milestone of annualized revenue of \$55.0 billion became probable of being achieved and consequently, we recognized a catch-up expense of \$116 million. During the second quarter of 2021, the operational milestone of annualized Adjusted EBITDA of \$10.0 billion became probable of being achieved and consequently, we recognized a catch-up expense of \$124 million. During the third quarter of 2021, the operational milestone of annualized Adjusted EBITDA of \$12.0 billion became probable of being achieved and consequently, we recognized a catch-up expense of \$124 million.

As of September 30, 2021, we had \$55 million of total unrecognized stock-based compensation expense for the operational milestones that were considered probable of achievement, which will be recognized over a weighted-average period of 0.4 years. As of September 30, 2021, we had unrecognized stock-based compensation expense of \$255 million for the operational milestones that were considered not probable of achievement. For the three and nine months ended September 30, 2021, we recorded stock-based compensation expense of \$190 million and \$665 million, respectively, related to the 2018 CEO Performance Award, and \$338 million and \$571 million, respectively, for the same periods in 2020.

Summary Stock-Based Compensation Information

The following table summarizes our stock-based compensation expense by line item in the consolidated statements of operations (in millions):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Cost of revenues	\$ 99	\$ 62	\$ 310	\$ 147
Research and development	105	76	334	214
Selling, general and administrative	271	405	919	740
Total	<u>\$ 475</u>	<u>\$ 543</u>	<u>\$ 1,563</u>	<u>\$ 1,101</u>

Our income tax benefits recognized from stock-based compensation arrangements in each of the periods presented were immaterial due to cumulative losses and valuation allowances.

Note 12 – Commitments and Contingencies

Operating Lease Arrangement in Buffalo, New York

We have an operating lease through the Research Foundation for the State University of New York (the “SUNY Foundation”) with respect to Gigafactory New York. Under the lease and a related research and development agreement, we are continuing to further develop the facility.

Under this agreement, we are obligated to, among other things, meet employment targets as well as specified minimum numbers of personnel in the State of New York and in Buffalo, New York and spend or incur \$5.00 billion in combined capital, operational expenses, costs of goods sold and other costs in the State of New York during the 10-year period beginning April 30, 2018. On an annual basis during the initial lease term, as measured on each anniversary of such date, if we fail to meet these specified investment and job creation requirements, then we would be obligated to pay a \$41 million “program payment” to the SUNY Foundation for each year that we fail to meet these requirements. Furthermore, if the arrangement is terminated due to a material breach by us, then additional amounts may become payable by us.

As we temporarily suspended most of our manufacturing operations at Gigafactory New York pursuant to a New York State executive order issued in March 2020 as a result of the COVID-19 pandemic, we were granted a one-year deferral of our obligation to be compliant with our applicable targets under such agreement on April 30, 2020, which was memorialized in an amendment to our agreement with the SUNY Foundation in July 2020. In April 2021, we were granted an additional deferral through December 31, 2021, which was memorialized in an amendment to our agreement with the SUNY Foundation in August 2021, as our operations at Gigafactory New York have not yet fully ramped due to a number of factors related to the pandemic. Given that we would have met all targets originally required as of April 30, 2020 if they had been measured prior to the mandated reduction of operations in March 2020, and we are currently in excess of such targets relating to investments and personnel in the State of New York and Buffalo, we do not currently expect any issues meeting our applicable obligations following this expected deferral or in the years beyond. However, if our expectations as to the costs and timelines of our investment and operations at Buffalo or our production ramp of the Solar Roof prove incorrect, we may incur additional expenses or be required to make substantial payments to the SUNY Foundation.

Operating Lease Arrangement in Shanghai, China

We have an operating lease arrangement for an initial term of 50 years with the local government of Shanghai for land use rights where we are constructing Gigafactory Shanghai. Under the terms of the arrangement, we are required to spend RMB 14.08 billion in capital expenditures by the end of 2023, and to generate RMB 2.23 billion of annual tax revenues starting at the end of 2023. If we are unwilling or unable to meet such target or obtain periodic project approvals, in accordance with the Chinese government’s standard terms for such arrangements, we would be required to revert the site to the local government and receive compensation for the remaining value of the land lease, buildings and fixtures. We believe the capital expenditure requirement and the tax revenue target will be attainable even if our actual vehicle production was far lower than the volumes we are forecasting.

Legal Proceedings

Litigation Relating to the SolarCity Acquisition

Between September 1, 2016 and October 5, 2016, seven lawsuits were filed in the Delaware Court of Chancery by purported stockholders of Tesla challenging our acquisition of SolarCity Corporation (“SolarCity”). Following consolidation, the lawsuit names as defendants the members of Tesla’s board of directors as then constituted and alleges, among other things, that board members breached their fiduciary duties in connection with the acquisition. The complaint asserts both derivative claims and direct claims on behalf of a purported class and seeks, among other relief, unspecified monetary damages, attorneys’ fees and costs. On January 27, 2017, defendants filed a motion to dismiss the operative complaint. Rather than respond to the defendants’ motion, the plaintiffs filed an amended complaint. On March 17, 2017, defendants filed a motion to dismiss the amended complaint. On December 13, 2017, the Court heard oral argument on the motion. On March 28, 2018, the Court denied defendants’ motion to dismiss. Defendants filed a request for interlocutory appeal, and the Delaware Supreme Court denied that request without ruling on the merits but electing not to hear an appeal at this early stage of the case. Defendants filed their answer on May 18, 2018, and mediations were held on June 10, 2019. Plaintiffs and defendants filed respective motions for summary judgment on August 25, 2019, and further mediations were held on October 3, 2019. The Court held a hearing on the motions for summary judgment on November 4, 2019. On January 22, 2020, all of the director defendants except Elon Musk reached a settlement to resolve the lawsuit against them for an amount to be paid entirely under the applicable insurance policy. The settlement, which does not involve an admission of any wrongdoing by any party, was approved by the Court on August 17, 2020. Tesla received payment of approximately \$43 million on September 16, 2020, which has been recognized in our consolidated statement of operations as a reduction to Selling, general and administrative operating expenses for costs previously incurred related to the acquisition of SolarCity. On February 4, 2020, the Court issued a ruling that denied plaintiffs’ previously-filed motion for summary judgment and granted in part and denied in part defendants’ previously-filed motion for summary judgment. The case was set for trial in March 2020 until it was postponed by the Court due to safety precautions concerning COVID-19. The trial was held from July 12 to July 23, 2021, and August 16, 2021, to be followed by certain post-trial proceedings, including post-trial argument on January 18, 2022.

These plaintiffs and others filed parallel actions in the U.S. District Court for the District of Delaware on or about April 21, 2017. They include claims for violations of the federal securities laws and breach of fiduciary duties by Tesla's board of directors. Those actions have been consolidated and stayed pending the above-referenced Chancery Court litigation.

Litigation Relating to 2018 CEO Performance Award

On June 4, 2018, a purported Tesla stockholder filed a putative class and derivative action in the Delaware Court of Chancery against Elon Musk and the members of Tesla's board of directors as then constituted, alleging corporate waste, unjust enrichment and that such board members breached their fiduciary duties by approving the stock-based compensation plan awarded to Elon Musk in 2018. The complaint seeks, among other things, monetary damages and rescission or reformation of the stock-based compensation plan. On August 31, 2018, defendants filed a motion to dismiss the complaint; plaintiff filed its opposition brief on November 1, 2018; and defendants filed a reply brief on December 13, 2018. The hearing on the motion to dismiss was held on May 9, 2019. On September 20, 2019, the Court granted the motion to dismiss as to the corporate waste claim but denied the motion as to the breach of fiduciary duty and unjust enrichment claims. Defendants' answer was filed on December 3, 2019.

On January 25, 2021, the Court conditionally certified certain claims and a class of Tesla stockholders as a class action. On September 30, 2021, plaintiff filed a motion for leave to file a verified amended derivative complaint. On October 1, 2021, defendants Kimbal Musk and Steve Jurvetson moved for summary judgment as to the claims against them. Following the motion, plaintiff agreed to voluntarily dismiss the claims against Kimbal Musk and Steve Jurvetson. Plaintiff also moved for summary judgment on October 1, 2021. Oral argument on summary judgment is set for January 6, 2022 and trial is set for April 2022.

Litigation Related to Directors' Compensation

On June 17, 2020, a purported Tesla stockholder filed a derivative action in the Delaware Court of Chancery, purportedly on behalf of Tesla, against certain of Tesla's current and former directors regarding compensation awards granted to Tesla's directors, other than Elon Musk, between 2017 and 2020. The suit asserts claims for breach of fiduciary duty and unjust enrichment and seeks declaratory and injunctive relief, unspecified damages and other relief. Defendants filed their answer on September 17, 2020. Trial is set for December 2022.

Litigation Relating to Potential Going Private Transaction

Between August 10, 2018 and September 6, 2018, nine purported stockholder class actions were filed against Tesla and Elon Musk in connection with Mr. Musk's August 7, 2018 Twitter post that he was considering taking Tesla private. All of the suits are now pending in the U.S. District Court for the Northern District of California. Although the complaints vary in certain respects, they each purport to assert claims for violations of federal securities laws related to Mr. Musk's statement and seek unspecified compensatory damages and other relief on behalf of a purported class of purchasers of Tesla's securities. Plaintiffs filed their consolidated complaint on January 16, 2019 and added as defendants the members of Tesla's board of directors. The now-consolidated purported stockholder class action was stayed while the issue of selection of lead counsel was briefed and argued before the Ninth Circuit. The Ninth Circuit ruled regarding lead counsel. Defendants filed a motion to dismiss the complaint on November 22, 2019. The hearing on the motion was held on March 6, 2020. On April 15, 2020, the Court denied defendants' motion to dismiss. The parties stipulated to certification of a class of stockholders, which the court granted on November 25, 2020. Trial is set for May 2022.

Between October 17, 2018 and March 8, 2021, seven derivative lawsuits were filed in the Delaware Court of Chancery, purportedly on behalf of Tesla, against Mr. Musk and the members of Tesla's board of directors, as constituted at relevant times, in relation to statements made and actions connected to a potential going private transaction, with certain of the lawsuits challenging additional Twitter posts by Mr. Musk, among other things. Five of those actions were consolidated, and all seven actions have been stayed pending resolution of the above-referenced consolidated purported stockholder class action. In addition to these cases, two derivative lawsuits were filed on October 25, 2018 and February 11, 2019 in the U.S. District Court for the District of Delaware, purportedly on behalf of Tesla, against Mr. Musk and the members of the Tesla board of directors as then constituted. Those cases have also been consolidated and stayed pending resolution of the above-referenced consolidated purported stockholder class action.

Unless otherwise stated, the individual defendants named in the stockholder proceedings described above and the Company with respect to the stockholder class action proceedings described above believe that the claims in such proceedings have no merit and intend to defend against them vigorously. We are unable to estimate the possible loss or range of loss, if any, associated with these claims.

Litigation Relating to Alleged Race Discrimination

On October 4, 2021, in a case captioned *Diaz v. Tesla*, a jury in the Northern District of California returned a verdict of \$136.9 million against Tesla on claims by a former contingent worker that he was subjected to race discrimination while assigned to work at Tesla's Fremont factory from 2015-2016. The Company does not believe that the facts and law justify the verdict and intends to pursue next steps in post-trial motions and on appeal.

Certain Investigations and Other Matters

We receive requests for information from regulators and governmental authorities, such as the National Highway Traffic Safety Administration, the National Transportation Safety Board, the SEC, the Department of Justice ("DOJ") and various state, federal, and international agencies. We routinely cooperate with such regulatory and governmental requests, including subpoenas, formal and informal requests and other investigations and inquiries.

For example, the SEC had issued subpoenas to Tesla in connection with (a) Elon Musk's prior statement that he was considering taking Tesla private and (b) certain projections that we made for Model 3 production rates during 2017 and other public statements relating to Model 3 production. The take-private investigation was resolved and closed with a settlement entered into with the SEC in September 2018 and as further clarified in April 2019 in an amendment. On December 4, 2019, the SEC (i) closed the investigation into the projections and other public statements regarding Model 3 production rates and (ii) issued a subpoena seeking information concerning certain financial data and contracts including Tesla's regular financing arrangements. Separately, the DOJ had also asked us to voluntarily provide it with information about the above matters related to taking Tesla private and Model 3 production rates.

Aside from the settlement, as amended, with the SEC relating to Mr. Musk's statement that he was considering taking Tesla private, there have not been any developments in these matters that we deem to be material, and to our knowledge no government agency in any ongoing investigation has concluded that any wrongdoing occurred. As is our normal practice, we have been cooperating and will continue to cooperate with government authorities. We cannot predict the outcome or impact of any ongoing matters. Should the government decide to pursue an enforcement action, there exists the possibility of a material adverse impact on our business, results of operation, prospects, cash flows and financial position.

We are also subject to various other legal proceedings and claims that arise from the normal course of business activities. If an unfavorable ruling or development were to occur, there exists the possibility of a material adverse impact on our business, results of operations, prospects, cash flows, financial position and brand.

Indemnification and Guaranteed Returns

We are contractually obligated to compensate certain fund investors for any losses that they may suffer in certain limited circumstances resulting from reductions in investment tax credits claimed under U.S. federal laws for the installation of solar power facilities and energy storage systems that are charged from a co-sited solar power facility ("ITC"s). Generally, such obligations would arise as a result of reductions to the value of the underlying solar energy systems as assessed by the U.S. Internal Revenue Service (the "IRS") for purposes of claiming ITCs. For each balance sheet date, we assess and recognize, when applicable, a distribution payable for the potential exposure from this obligation based on all the information available at that time, including any audits undertaken by the IRS. We believe that any payments to the fund investors in excess of the amounts already recognized by us for this obligation are not probable or material based on the facts known at the filing date.

The maximum potential future payments that we could have to make under this obligation would depend on the difference between the fair values of the solar energy systems sold or transferred to the funds as determined by us and the values that the IRS would determine as the fair value for the systems for purposes of claiming ITCs. We claim ITCs based on guidelines provided by the U.S. Treasury department and the statutory regulations from the IRS. We use fair values determined with the assistance of independent third-party appraisals commissioned by us as the basis for determining the ITCs that are passed-through to and claimed by the fund investors. Since we cannot determine exactly how the IRS will evaluate system values used in claiming ITCs, we are unable to reliably estimate the maximum potential future payments that it could have to make under this obligation as of each balance sheet date.

We are eligible to receive certain state and local incentives that are associated with renewable energy generation. The amount of incentives that can be claimed is based on the projected or actual solar energy system size and/or the amount of solar energy produced. We also currently participate in one state's incentive program that is based on either the fair market value or the tax basis of solar energy systems placed in service. State and local incentives received are allocated between us and fund investors in accordance with the contractual provisions of each fund. We are not contractually obligated to indemnify any fund investor for any losses they may incur due to a shortfall in the amount of state or local incentives actually received.

Note 13 – Variable Interest Entity Arrangements

We have entered into various arrangements with investors to facilitate the funding and monetization of our solar energy systems and vehicles. In particular, our wholly owned subsidiaries and fund investors have formed and contributed cash and assets into various financing funds and entered into related agreements. We have determined that the funds are variable interest entities (“VIEs”) and we are the primary beneficiary of these VIEs by reference to the power and benefits criterion under ASC 810, *Consolidation*. We have considered the provisions within the agreements, which grant us the power to manage and make decisions that affect the operation of these VIEs, including determining the solar energy systems and the associated customer contracts to be sold or contributed to these VIEs, redeploying solar energy systems and managing customer receivables. We consider that the rights granted to the fund investors under the agreements are more protective in nature rather than participating.

As the primary beneficiary of these VIEs, we consolidate in the financial statements the financial position, results of operations and cash flows of these VIEs, and all intercompany balances and transactions between us and these VIEs are eliminated in the consolidated financial statements. Cash distributions of income and other receipts by a fund, net of agreed upon expenses, estimated expenses, tax benefits and detriments of income and loss and tax credits, are allocated to the fund investor and our subsidiary as specified in the agreements.

Generally, our subsidiary has the option to acquire the fund investor’s interest in the fund for an amount based on the market value of the fund or the formula specified in the agreements.

Upon the sale or liquidation of a fund, distributions would occur in the order and priority specified in the agreements.

Pursuant to management services, maintenance and warranty arrangements, we have been contracted to provide services to the funds, such as operations and maintenance support, accounting, lease servicing and performance reporting. In some instances, we have guaranteed payments to the fund investors as specified in the agreements. A fund’s creditors have no recourse to our general credit or to that of other funds. None of the assets of the funds had been pledged as collateral for their obligations.

The aggregate carrying values of the VIEs’ assets and liabilities, after elimination of any intercompany transactions and balances, in the consolidated balance sheets were as follows (in millions):

	September 30, 2021	December 31, 2020
Assets		
Current assets		
Cash and cash equivalents	\$ 100	\$ 87
Accounts receivable, net	44	28
Prepaid expenses and other current assets	144	105
Total current assets	288	220
Solar energy systems, net	4,605	4,749
Other non-current assets	204	182
Total assets	<u>\$ 5,097</u>	<u>\$ 5,151</u>
Liabilities		
Current liabilities		
Accrued liabilities and other	\$ 72	\$ 63
Deferred revenue	11	11
Customer deposits	—	14
Current portion of debt and finance leases	1,057	797
Total current liabilities	1,140	885
Deferred revenue, net of current portion	166	168
Debt and finance leases, net of current portion	2,286	1,346
Other long-term liabilities	15	19
Total liabilities	<u>\$ 3,607</u>	<u>\$ 2,418</u>

Note 14 – Segment Reporting and Information about Geographic Areas

We have two operating and reportable segments: (i) automotive and (ii) energy generation and storage. The automotive segment includes the design, development, manufacturing, sales, and leasing of electric vehicles as well as sales of automotive regulatory credits. Additionally, the automotive segment is also comprised of services and other, which includes non-warranty after-sales vehicle services, sales of used vehicles, retail merchandise, sales by our acquired subsidiaries to third party customers, and vehicle insurance revenue. The energy generation and storage segment includes the design, manufacture, installation, sales, and leasing of solar energy generation and energy storage products and related services and sales of solar energy systems incentives. Our CODM does not evaluate operating segments using asset or liability information. The following table presents revenues and gross profit by reportable segment (in millions):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
Automotive segment				
Revenues	\$ 12,951	\$ 8,192	\$ 34,003	\$ 19,550
Gross profit	\$ 3,657	\$ 2,042	\$ 8,837	\$ 4,511
Energy generation and storage segment				
Revenues	\$ 806	\$ 579	\$ 2,101	\$ 1,242
Gross profit	\$ 3	\$ 21	\$ (78)	\$ 53

The following table presents revenues by geographic area based on the sales location of our products (in millions):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2021	2020	2021	2020
United States	\$ 6,414	\$ 4,215	\$ 16,043	\$ 10,073
China	3,113	1,744	9,015	4,044
Other	4,230	2,812	11,046	6,675
Total	<u>\$ 13,757</u>	<u>\$ 8,771</u>	<u>\$ 36,104</u>	<u>\$ 20,792</u>

The following table presents long-lived assets by geographic area (in millions):

	September 30,	December 31,
	2021	2020
United States	\$ 18,208	\$ 15,989
International	4,911	2,737
Total	<u>\$ 23,119</u>	<u>\$ 18,726</u>

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis should be read in conjunction with the consolidated financial statements and the related notes included elsewhere in this Quarterly Report on Form 10-Q.

Overview

Our mission is to accelerate the world's transition to sustainable energy. We design, develop, manufacture, lease and sell high-performance fully electric vehicles, solar energy generation systems and energy storage products. We also offer maintenance, installation, operation, financial and other services related to our products.

In 2021, we have produced 624,582 vehicles and delivered 627,572 vehicles through the third quarter. We are currently focused on increasing vehicle production and capacity, improving and developing battery technologies, improving our FSD and Autopilot capabilities, increasing the affordability and efficiency of our vehicles and expanding our global infrastructure.

In 2021, we have deployed 3.01 GWh of energy storage products and 260 megawatts of solar energy systems through the third quarter. We are currently focused on ramping production of energy storage products, improving our Solar Roof installation capability and efficiency, and increasing market share of retrofit and new build solar energy systems.

During the three and nine months ended September 30, 2021, we recognized total revenues of \$13.76 billion and \$36.10 billion, respectively, representing increases of \$4.99 billion and \$15.31 billion, respectively, over the same periods ended September 30, 2020. We continue to ramp production, build new manufacturing capacity and expand our operations to enable increased deliveries and deployments of our products and further revenue growth.

During the three and nine months ended September 30, 2021, our net income attributable to common stockholders was \$1.62 billion and \$3.20 billion, respectively, representing increases of \$1.29 billion and \$2.75 billion, respectively, over the same periods ended September 30, 2020. We continue to focus on improving our profitability through production and operational efficiencies.

We ended the third quarter of 2021 with \$16.07 billion in cash and cash equivalents, representing a decrease of \$3.32 billion from the end of 2020. Our cash flows provided by operating activities during the nine month period ended September 30, 2021 was \$6.91 billion, representing an increase of \$3.99 billion compared to our cash flows provided by operating activities during the same period ended September 30, 2020 of \$2.92 billion, and capital expenditures amounted to \$4.67 billion during the nine month period ended September 30, 2021, compared to \$2.01 billion during the same period ended September 30, 2020. Sustained growth has allowed our business to generally fund itself, but we will continue investing in a number of capital-intensive projects in upcoming periods.

Management Opportunities, Challenges and Risks

Impact of COVID-19 Pandemic

Beginning in the first quarter of 2021, there has been a trend in many parts of the world of increasing availability and administration of vaccines against COVID-19, as well as an easing of restrictions on social, business, travel and government activities and functions. On the other hand, infection rates and regulations continue to fluctuate in various regions and there are ongoing global impacts resulting from the pandemic, including challenges and increases in costs for logistics and supply chains, such as increased port congestion, intermittent supplier delays and a shortfall of semiconductor supply. We have also previously been affected by temporary manufacturing closures, employment and compensation adjustments, and impediments to administrative activities supporting our product deliveries and deployments.

Ultimately, we cannot predict the duration of the COVID-19 pandemic. We will continue to monitor macroeconomic conditions to remain flexible and to optimize and evolve our business as appropriate, and we will have to accurately project demand and infrastructure requirements globally and deploy our production, workforce and other resources accordingly.

Automotive—Production

The following is a summary of the status of production of each of our announced vehicle models in production and under development, as of the date of this Quarterly Report on Form 10-Q:

Production Location	Vehicle Model(s)	Production Status
Fremont Factory	Model S / Model X	Active
	Model 3 / Model Y	Active
Gigafactory Shanghai	Model 3 / Model Y	Active
Gigafactory Berlin	Model Y	Constructing manufacturing facilities
Gigafactory Texas	Model Y	Constructing manufacturing facilities
	Cybertruck	In development
TBD	Tesla Semi	In development
TBD	Tesla Roadster	In development

Our new versions of Model S and Model X are in production, and we are focused on ramping all of our production vehicles to their installed production capacities as well as increasing capacity at our current factories. Our current production continues to be affected by the industry-wide semiconductor and other component shortages, requiring additional workaround manufacturing and production design solutions to be implemented which may be difficult to sustain. The next phase of production growth will depend on the construction of Gigafactory Berlin and Gigafactory Texas, each of which is progressing as planned for production beginning in late 2021, as well as our ability to add to our available sources of battery cell supply by manufacturing our own cells that we are developing to have high-volume output, lower capital and production costs and longer range. Consistent with our approach of innovating manufacturing techniques at our new factories, we expect as well to pioneer new methods related to the mass production of these cells and our unique structural battery pack concept. Our goals are to improve vehicle performance, decrease production costs and increase affordability.

However, these plans are subject to uncertainties inherent in establishing and ramping manufacturing operations, which may be exacerbated by the number of concurrent international projects, any industry-wide component constraints which may increase the number of manufacturing and production design workaround solutions required and any future impact from events outside of our control such as the COVID-19 pandemic. Moreover, we must meet ambitious technological targets with our plans for battery cells as well as for iterative manufacturing and design improvements for our vehicles with each new factory.

Automotive—Demand and Sales

Our cost reduction efforts and additional localized procurement and manufacturing are key to our vehicles' affordability, and for example, have allowed us to competitively price our vehicles in China. In addition to opening new factories in 2021, we will also continue to generate demand and brand awareness by improving our vehicles' performance and functionality, including Autopilot, FSD and software features and introducing anticipated future vehicles. Moreover, we expect to continue to benefit from a recent spike in demand in the automotive industry generally, as well as ongoing electrification of the automotive sector and increasing environmental awareness.

However, we operate in a cyclical industry that is sensitive to trade, environmental and political uncertainty, all of which may also be compounded by any future global impact from the COVID-19 pandemic. Moreover, as additional competitors enter the marketplace and help bring the world closer to sustainable transportation, we will have to continue to execute well to maintain our momentum.

Automotive—Deliveries and Customer Infrastructure

As our deliveries increase, we must work constantly to prevent our vehicle delivery capability from becoming a bottleneck on our total deliveries. Increasing the exports of vehicles manufactured at Gigafactory Shanghai has been effective in mitigating the strain on our deliveries in markets outside of the United States, and we expect to benefit further from situating additional factories closer to local markets. As we expand our manufacturing operations globally, we will have to continue to increase and staff our delivery, servicing and charging infrastructure accordingly, maintain our vehicle reliability and optimize our Supercharger locations to ensure cost effectiveness and customer satisfaction. In particular, we remain focused on increasing the capability and efficiency of our servicing operations.

Energy Generation and Storage Demand, Production and Deployment

The long-term success of this business is dependent upon increasing margins through greater volumes. We continue to increase the production of our energy storage products to meet high levels of demand, including beginning construction of our Megafactory in Lathrop, California, but such production is also sensitive to global component constraints. For Megapack, energy storage deployments can vary meaningfully quarter to quarter depending on the timing of specific project milestones. For Powerwall, better availability and growing grid stability concerns drive higher customer interest, and we are emphasizing cross-selling with our residential solar energy products. We remain committed to growing our retrofit solar energy business by offering a low-cost and simplified online ordering experience. In addition, we continue to improve our installation capabilities and price efficiencies for Solar Roof by on-boarding and training new installers, as well as collaborating with real estate developers and builders on new homes to reduce installation time and costs. As these product lines grow, we will have to maintain adequate battery cell supply for our energy storage products and hire additional personnel, particularly skilled electricians, to support the ramp of Solar Roof.

Cash Flow and Capital Expenditure Trends

Our capital expenditures are typically difficult to project beyond the short term given the number and breadth of our core projects at any given time, and may further be impacted by uncertainties in future global market conditions. We are simultaneously ramping new products in the new Model S and Model X, Model Y, Megapack and Solar Roof, constructing or ramping manufacturing facilities on three continents and piloting the development and manufacture of new battery cell technologies, and the pace of our capital spend may vary depending on overall priority among projects, the pace at which we meet milestones, production adjustments to and among our various products, increased capital efficiencies and the addition of new projects. Owing and subject to the foregoing as well as the pipeline of announced projects under development and all other continuing infrastructure growth, we currently expect our capital expenditures to exceed \$6 billion in 2021 and be between \$5 to \$7 billion in each of the next two fiscal years.

Our business has recently been consistently generating cash flow from operations in excess of our level of capital spend, and with better working capital management resulting in shorter days sales outstanding than days payable outstanding, our sales growth is also facilitating positive cash generation. On the other hand, we are likely to see heightened levels of capital expenditures during certain periods depending on the specific pace of our capital-intensive projects. Moreover, as our stock price has significantly increased, we have seen higher levels of early conversions of “in-the-money” convertible senior notes, which obligates us to deliver cash and or shares pursuant to the terms of those notes. Overall, we expect our ability to be self-funding to continue as long as macroeconomic factors support current trends in our sales.

Operating Expense Trends

As long as we see expanding sales, and excluding the potential impact of non-cash stock compensation expense attributable to the 2018 CEO Performance Award and impairment charges on certain assets as explained below, we generally expect operating expenses relative to revenues to decrease as we continue to increase operational efficiency and process automation.

In March 2018, our stockholders approved a performance-based stock option award to our CEO (the “2018 CEO Performance Award”), consisting of 12 vesting tranches contingent on the achievement of specified market capitalization and operational milestones. We incur non-cash stock-based compensation expense for each tranche only after the related operational milestone initially becomes probable of being achieved based on a subjective assessment of our future financial performance, and if this happens following the grant date, we record at such time a cumulative catch-up expense that may be significant based on the length of time elapsed from the grant date. Moreover, the remaining expense for that tranche is ratably recorded over the period remaining until the later of (i) the expected achievement of the relevant operational milestone (if it has not yet been achieved) and (ii) the expected achievement of the related market capitalization milestone (if it had not yet been achieved). Upon the achievement of both milestones related to a tranche, all remaining associated expense is recognized immediately. Because the market capitalization milestone achievements were generally expected to occur later than the related expected operational milestone achievements, the achievement of the former earlier than expected may increase the magnitude of any catch-up expense and/or accelerate the rate at which the remaining expense is recognized. Since 2020, several operational milestones have become probable and/or have been achieved and all market capitalization milestones have been achieved, resulting in the recognition or acceleration of related expense earlier than anticipated and within a relatively short period of time. See Note 11, *Equity Incentive Plans—2018 CEO Performance Award*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q for further details regarding the stock-based compensation relating to the 2018 CEO Performance Award.

In the first quarter of 2021, we invested an aggregate \$1.50 billion in bitcoin and accepted bitcoin as a form of payment for sales of certain of our products in specified regions, subject to applicable laws, and suspended this practice in May 2021. We believe in the long-term potential of digital assets both as an investment and also as a liquid alternative to cash. As with any investment and consistent with how we manage fiat-based cash and cash-equivalent accounts, we may increase or decrease our holdings of digital assets at any time based on the needs of the business and our view of market and environmental conditions. Digital assets are considered indefinite-lived intangible assets under applicable accounting rules. Accordingly, any decrease in their fair values below our carrying values for such assets at any time subsequent to their acquisition will require us to recognize impairment charges, whereas we may make no upward revisions for any market price increases until a sale. For any digital assets held now or in the future, these charges may negatively impact our profitability in the periods in which such impairments occur even if the overall market values of these assets increase. For example, in the nine month period ended September 30, 2021, we recorded approximately \$101 million of impairment losses resulting from changes to the carrying value of our bitcoin and gains of \$128 million on certain sales of bitcoin by us.

Critical Accounting Policies and Estimates

The consolidated financial statements are prepared in accordance with accounting principles generally accepted in the U.S. ("GAAP"). The preparation of the consolidated financial statements requires us to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, costs and expenses and related disclosures. We base our estimates on historical experience, as appropriate, and on various other assumptions that we believe to be reasonable under the circumstances. Changes in the accounting estimates are reasonably likely to occur from period to period. Accordingly, actual results could differ significantly from the estimates made by our management. We evaluate our estimates and assumptions on an ongoing basis. To the extent that there are material differences between these estimates and actual results, our future financial statement presentation, financial condition, results of operations and cash flows may be affected.

Due to the COVID-19 pandemic, there has been uncertainty and disruption in the global economy and financial markets. The estimates used for, but not limited to, determining significant economic incentive for resale value guarantee arrangements, sales return reserves, the collectability of accounts receivable, inventory valuation, fair value of long-lived assets, goodwill, fair value of financial instruments, fair value and residual value of operating lease vehicles and solar energy systems subject to leases could be impacted. We have assessed the impact and are not aware of any specific events or circumstances that required an update to our estimates and assumptions or materially affected the carrying value of our assets or liabilities as of the date of issuance of this Quarterly Report on Form 10-Q. These estimates may change as new events occur and additional information is obtained. Actual results could differ materially from these estimates under different assumptions or conditions.

For a description of our critical accounting policies and estimates, refer to Part II, Item 7, Critical Accounting Policies and Estimates in our Annual Report on Form 10-K for the year ended December 31, 2020. There have been no material changes to our critical accounting policies and estimates since our Annual Report on Form 10-K for the year ended December 31, 2020.

Recent Accounting Pronouncements

See Note 2, *Summary of Significant Accounting Policies*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q.

Results of Operations

Revenues

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Automotive sales	\$ 11,672	\$ 7,346	\$ 4,326	59%	\$ 30,251	\$ 17,150	\$ 13,101	76%
Automotive leasing	385	265	120	45%	1,014	772	242	31%
Total automotive revenues	12,057	7,611	4,446	58%	31,265	17,922	13,343	74%
Services and other	894	581	313	54%	2,738	1,628	1,110	68%
Total automotive & services and other segment revenue	12,951	8,192	4,759	58%	34,003	19,550	14,453	74%
Energy generation and storage segment revenue	806	579	227	39%	2,101	1,242	859	69%
Total revenues	\$ 13,757	\$ 8,771	\$ 4,986	57%	\$ 36,104	\$ 20,792	\$ 15,312	74%

Automotive & Services and Other Segment

Automotive sales revenue includes revenues related to cash deliveries of new Model S, Model X, Model 3 and Model Y vehicles, including access to our Supercharger network, internet connectivity, FSD features and over-the-air software updates, as well as sales of regulatory credits to other automotive manufacturers. Cash deliveries are vehicles that are not subject to lease accounting. Our revenue from regulatory credits fluctuates depending on when a contract is executed with a buyer and when the credits are delivered.

Automotive leasing revenue includes the amortization of revenue for vehicles under direct operating lease agreements as well as those sold with resale value guarantees accounted for as operating leases under lease accounting. We began offering direct leasing for Model Y vehicles in the third quarter of 2020. Additionally, automotive leasing revenue includes direct sales-type leasing programs where we recognize all revenue associated with the sales-type lease upon delivery to the customer, which we introduced in volume during the third quarter of 2020.

Services and other revenue consists of non-warranty after-sales vehicle services, sales of used vehicles, retail merchandise, sales by our acquired subsidiaries to third party customers and vehicle insurance revenue.

Automotive sales revenue increased \$4.33 billion, or 59%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020, primarily due to an increase of 101,183 Model 3 and Model Y cash deliveries. This increase was partially offset by a decrease from 5,855 fewer Model S and Model X cash deliveries in the three months ended September 30, 2021 compared to the prior period as deliveries of the new version of Model S only began ramping in the second quarter of 2021. Additionally, there was a reduction in the average selling price of Model Y due to changes in regional sales mix compared to the prior period and a decrease of \$118 million from sales of regulatory credits to \$279 million in the three months ended September 30, 2021.

Automotive sales revenue increased \$13.10 billion, or 76%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020, primarily due to an increase of 304,919 Model 3 and Model Y cash deliveries year over year from production ramping at both Gigafactory Shanghai and the Fremont Factory. The increase in automotive sales revenue was partially offset by a decrease from 21,767 fewer Model S and Model X cash deliveries in the nine months ended September 30, 2021 compared to the prior period as deliveries of the new version of Model S only began ramping in the second quarter of 2021. Additionally, there was a reduction in the average selling price of Model Y due to changes in regional sales mix compared to the prior period and a decrease of \$28 million from additional sales of regulatory credits to \$1.15 billion in the nine months ended September 30, 2021.

Automotive leasing revenue increased \$120 million, or 45%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020, primarily due to increases in cumulative vehicles and purchase options exercised under our direct operating lease program compared to the prior period.

Automotive leasing revenue increased \$242 million, or 31%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020, primarily due to an increase in cumulative vehicles under our direct operating lease program, the introduction of direct sales-type leasing programs which we began offering in volume during the third quarter of 2020 where we recognize all revenue associated with the sales-type lease upon delivery to the customer and an increase in purchase options exercised under our direct operating lease program compared to the prior period. These increases were partially offset by the decrease in automotive leasing revenue associated with our resale value guarantee leasing programs accounted for as operating leases as those portfolios have declined.

Services and other revenue increased \$313 million, or 54%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. Services and other revenue increased \$1.11 billion, or 68%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. These increases were primarily due to an increase in used vehicle revenue driven by increases in volume and average selling prices of trade-ins, non-warranty maintenance services revenue as our fleet continues to grow and retail merchandise revenue.

Energy Generation and Storage Segment

Energy generation and storage revenue includes sales and leasing of solar energy generation and energy storage products, services related to such products and sales of solar energy systems incentives.

Energy generation and storage revenue increased by \$227 million, or 39%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. Energy generation and storage revenue increased by \$859 million, or 69%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. These increases were primarily due to increases in deployments of Megapack, solar cash and loan jobs and Powerwall, partially offset by a decrease in Powerpack deployments as we phase out the product following the introduction of Megapack. Additionally, there was a reduction in average selling prices on our solar cash and loan jobs in the nine months ended September 30, 2021 compared to the prior period as a result of our low cost solar strategy introduced mid-2020.

Cost of Revenues and Gross Margin

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Cost of revenues								
Automotive sales	\$ 8,150	\$ 5,361	\$ 2,789	52 %	\$ 21,726	\$ 12,774	\$ 8,952	70 %
Automotive leasing	234	145	89	61 %	582	415	167	40 %
Total automotive cost of revenues	8,384	5,506	2,878	52 %	22,308	13,189	9,119	69 %
Services and other	910	644	266	41 %	2,858	1,850	1,008	54 %
Total automotive & services and other segment cost of revenues	9,294	6,150	3,144	51 %	25,166	15,039	10,127	67 %
Energy generation and storage segment	803	558	245	44 %	2,179	1,189	990	83 %
Total cost of revenues	\$ 10,097	\$ 6,708	\$ 3,389	51 %	\$ 27,345	\$ 16,228	\$ 11,117	69 %
Gross profit total automotive	\$ 3,673	\$ 2,105			\$ 8,957	\$ 4,733		
Gross margin total automotive	30 %	28 %			29 %	26 %		
Gross profit total automotive & services and other segment	\$ 3,657	\$ 2,042			\$ 8,837	\$ 4,511		
Gross margin total automotive & services and other segment	28 %	25 %			26 %	23 %		
Gross profit energy generation and storage segment	\$ 3	\$ 21			\$ (78)	\$ 53		
Gross margin energy generation and storage segment	0 %	4 %			-4 %	4 %		
Total gross profit	\$ 3,660	\$ 2,063			\$ 8,759	\$ 4,564		
Total gross margin	27 %	24 %			24 %	22 %		

Automotive & Services and Other Segment

Cost of automotive sales revenue includes direct parts, material and labor costs, manufacturing overhead, including depreciation costs of tooling and machinery, shipping and logistic costs, vehicle connectivity costs, allocations of electricity and infrastructure costs related to our Supercharger network and reserves for estimated warranty expenses. Cost of automotive sales revenues also includes adjustments to warranty expense and charges to write down the carrying value of our inventory when it exceeds its estimated net realizable value and to provide for obsolete and on-hand inventory in excess of forecasted demand.

Cost of automotive leasing revenue includes the amortization of operating lease vehicles over the lease term, cost of goods sold associated with direct sales-type leases which were introduced in volume in the third quarter of 2020, as well as warranty expenses related to leased vehicles. Cost of automotive leasing revenue also includes vehicle connectivity costs and allocations of electricity and infrastructure costs related to our Supercharger network for vehicles under our leasing programs.

Cost of services and other revenue includes costs associated with providing non-warranty after-sales services, costs to acquire and certify used vehicles, costs for retail merchandise, and costs to provide vehicle insurance. Cost of services and other revenue also includes direct parts, material and labor costs and manufacturing overhead associated with the sales by our acquired subsidiaries to third party customers.

Cost of automotive sales revenue increased \$2.79 billion, or 52%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020, primarily due to an increase of 101,183 Model 3 and Model Y cash deliveries, partially offset by a decrease in combined average Model 3 and Model Y costs per unit due to changes in regional production mix, as Gigafactory Shanghai has ramped in capacity, despite a higher proportion of Model Y compared to the prior period. Additionally, there was a decrease of 5,855 Model S and Model X cash deliveries in the three months ended September 30, 2021 compared to the prior period.

Cost of automotive sales revenue increased \$8.95 billion, or 70%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020, primarily due to an increase of 304,919 Model 3 and Model Y cash deliveries. These increases were partially offset by a decrease of 21,767 Model S and Model X cash deliveries at higher costs per unit due to temporary under-utilization of manufacturing capacity at lower production volumes during our current production ramp of the new version of Model S. Additionally, there was a decrease in combined average Model 3 and Model Y costs per unit due to changes in regional production mix, as Gigafactory Shanghai has ramped in capacity, despite a higher proportion of Model Y compared to the prior period and lower material, manufacturing, inbound freight and duty costs from localized procurement and manufacturing in China.

Cost of automotive leasing revenue increased \$89 million, or 61%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020, primarily due to increases in cumulative vehicles and purchase options exercised under our direct operating lease program compared to the prior period.

Cost of automotive leasing revenue increased \$167 million, or 40%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020, primarily due to increases in cumulative vehicles and purchase options exercised under our direct operating lease program compared to the prior period and the introduction of direct sales-type leasing programs which we began offering in volume during the third quarter of 2020 where we recognize all cost of revenue associated with the sales-type lease upon delivery to the customer. These increases were partially offset by the decrease in cost of automotive leasing revenue associated with our resale value guarantee leasing programs accounted for as operating leases as those portfolios have declined.

Cost of services and other revenue increased \$266 million, or 41%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020, primarily due to increases in costs to support our increase in non-warranty maintenance services revenue, used vehicle cost of revenue driven by increases in volume and values of trade-ins and costs of retail merchandise as our sales have increased.

Cost of services and other revenue increased \$1.01 billion, or 54%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020, primarily due to increases in used vehicle cost of revenue driven by increases in volume and values of trade-ins, costs to support our increase in non-warranty maintenance services revenue and costs of retail merchandise as our sales have increased.

Gross margin for total automotive increased from 28% to 30% in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. Gross margin for total automotive increased from 26% to 29% in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. The increases were primarily due to favorable changes in sales and production mix of Model 3 and Model Y as Gigafactory Shanghai has ramped in capacity. The average Model 3 and Model Y costs per unit have decreased significantly due to lower material, manufacturing, inbound freight and duty costs from localized procurement and manufacturing in China. Increased sales in Asia and exporting vehicles manufactured in Gigafactory Shanghai instead of the Fremont Factory to other regions have resulted in higher gross margins for both our Model 3 and Model Y product lines.

Gross margin for total automotive & services and other segment increased from 25% to 28% in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. Gross margin for total automotive & services and other segment increased from 23% to 26% in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. These increases were primarily due to the automotive gross margin impacts discussed above and an improvement in our services and other gross margin. Additionally, there was a lower proportion of services and other, which operated at a lower gross margin than our automotive business, within the segment in the three and nine months ended September 30, 2021 as compared to the prior period.

Energy Generation and Storage Segment

Cost of energy generation and storage revenue includes direct and indirect material and labor costs, warehouse rent, freight, warranty expense, other overhead costs and amortization of certain acquired intangible assets. Cost of energy generation and storage revenue also includes charges to write down the carrying value of our inventory when it exceeds its estimated net realizable value and to provide for obsolete and on-hand inventory in excess of forecasted demand. In agreements for solar energy system and PPAs where we are the lessor, the cost of revenue is primarily comprised of depreciation of the cost of leased solar energy systems, maintenance costs associated with those systems and amortization of any initial direct costs.

Cost of energy generation and storage revenue increased by \$245 million, or 44%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. These increases were primarily due to increases in deployments of Megapack, solar cash and loan jobs, Solar Roof and Powerwall, partially offset by a decrease in Powerpack deployments as we phase out the product following the introduction of Megapack.

Cost of energy generation and storage revenue increased by \$990 million, or 83%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. These increases were primarily due to increases in deployments of solar cash and loan jobs, Megapack, Solar Roof and Powerwall, partially offset by reductions in average costs per unit of solar cash and loan jobs and Solar Roof as deployments have increased and a decrease in Powerpack deployments as we phase out the product following the introduction of Megapack.

Gross margin for energy generation and storage decreased from 4% to 0% in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020, primarily due to a higher proportion of Solar Roof in our overall energy business, which operated at lower gross margins as a result of temporary manufacturing underutilization during product ramp, despite gross margin improvements compared to the prior period, partially offset by improved gross margins in our energy storage business.

Gross margin for energy generation and storage decreased from 4% to -4% in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020, primarily due to a higher proportion of Solar Roof in our overall energy business which operated at lower gross margins as a result of temporary manufacturing underutilization during product ramp despite improvements in gross margins compared to the prior period and increased service maintenance costs on solar energy systems where we are the lessor, partially offset by a higher proportion of Powerwall in our overall energy business which operated at higher gross margins.

Research and Development Expense

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Research and development	\$ 611	\$ 366	\$ 245	67%	\$ 1,853	\$ 969	\$ 884	91%
As a percentage of revenues	4%	4%			5%	5%		

Research and development (“R&D”) expenses consist primarily of personnel costs for our teams in engineering and research, manufacturing engineering and manufacturing test organizations, prototyping expense, contract and professional services and amortized equipment expense.

R&D expenses increased \$245 million, or 67%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. The increase was primarily due to a \$111 million increase in employee and labor related expenses due to an increase in headcount, a \$60 million increase in facilities, outside services, freight and depreciation expenses, a \$44 million increase in R&D expensed materials, and a \$29 million increase in stock-based compensation expense. These increases were to support our expanding product roadmap such as the new versions of Model S and Model X and technologies including our proprietary battery cells.

R&D expenses increased \$884 million, or 91%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. The increase was primarily due to a \$393 million increase in employee and labor related expenses due to an increase in headcount, a \$221 million increase in R&D expensed materials, a \$148 million increase in facilities, outside services, freight and depreciation expense and a \$120 million increase in stock-based compensation expense. These increases were to support our expanding product roadmap such as the new versions of Model S and Model X and technologies including our proprietary battery cells.

R&D expenses as a percentage of revenue remained consistent at 4% in the three months ended September 30, 2021 and 2020. R&D expenses as a percentage of revenue remained consistent at 5% in the nine months ended September 30, 2021 and 2020. R&D expenses increased proportionately with the increase in total revenues from expanding sales.

Selling, General and Administrative Expense

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Selling, general and administrative	\$ 994	\$ 888	\$ 106	12%	\$ 3,023	\$ 2,176	\$ 847	39%
As a percentage of revenues	7%	10%			8%	10%		

Selling, general and administrative (“SG&A”) expenses generally consist of personnel and facilities costs related to our stores, marketing, sales, executive, finance, human resources, information technology and legal organizations, as well as fees for professional and contract services and litigation settlements.

SG&A expenses increased \$106 million, or 12%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. The increase is primarily due to an increase of \$134 million in employee and labor related expenses from increased headcount and a \$106 million increase in office, information technology, facilities-related expenses, sales and marketing activities and other costs. The increases were partially offset by a decrease of \$134 million in stock-based compensation expense, of which \$148 million was attributable to the 2018 CEO Performance Award. See Note 11, *Equity Incentive Plans*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q and Note 14, *Equity Incentive Plans*, in our Annual Report on Form 10-K for the year ended December 31, 2020.

SG&A expenses increased \$847 million, or 39%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. The increase is primarily due to an increase of \$445 million in employee and labor related expenses from increased headcount and a \$223 million increase in office, information technology, facilities-related expenses, sales and marketing activities and other costs. Additionally, there was an increase of \$179 million in stock-based compensation expense, of which \$94 million was attributable to the 2018 CEO Performance Award. See Note 11, *Equity Incentive Plans*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q and Note 14, *Equity Incentive Plans*, in our Annual Report on Form 10-K for the year ended December 31, 2020.

SG&A expenses as a percentage of revenue decreased from 10% to 7% in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. SG&A expenses as a percentage of revenue decreased from 10% to 8% in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. This was driven by the increase in total revenues from expanding sales, despite an increase in our SG&A expenses as detailed above.

Restructuring and Other Expense

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Restructuring and other	\$ 51	\$ —	\$ 51	Not meaningful	\$ (27)	\$ —	\$ (27)	Not meaningful
As a percentage of revenues	0%	0%			0%	0%		

During the three and nine months ended September 30, 2021, we recorded \$51 million and \$101 million, respectively, of impairment losses on bitcoin. We also realized gains of \$128 million in March 2021. See Note 2, *Summary of Significant Accounting Policies*, and Note 3, *Digital Assets, Net*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q for further details.

Interest Expense

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Interest expense	\$ (126)	\$ (163)	\$ 37	-23%	\$ (300)	\$ (502)	\$ 202	-40%
As a percentage of revenues	1%	2%			1%	2%		

Interest expense decreased by \$37 million, or 23%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. Interest expense decreased by \$202 million, or 40%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. These decreases were primarily due to the adoption of ASU 2020-06, *Accounting for Convertible Instruments and Contracts in an Entity's Own Equity*, on January 1, 2021, whereby we have de-recognized the remaining debt discounts on the 2022 Notes and 2024 Notes and therefore no longer recognize any amortization of debt discounts as interest expense, as well as the continued reduction in our overall debt balance. See Note 2, *Summary of Significant Accounting Policies*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q for further details. These decreases were partially offset by an extinguishment of debt charge of \$60 million related to the redemption of our 5.30% Senior Notes due in 2025.

Other (Expense) Income, Net

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Other (expense) income, net	\$ (6)	\$ (97)	\$ 91	-94%	\$ 67	\$ (166)	\$ 233	-140%
As a percentage of revenues	0%	1%			0%	1%		

Other (expense) income, net, consists primarily of foreign exchange gains and losses related to our foreign currency-denominated monetary assets and liabilities and changes in the fair values of our fixed-for-floating interest rate swaps. We expect our foreign exchange gains and losses will vary depending upon movements in the underlying exchange rates.

Other (expense) income, net, changed favorably by \$91 million in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020, primarily due to favorable fluctuations in foreign currency exchange rates.

Other (expense) income, net, changed favorably by \$233 million in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020, primarily due to favorable fluctuations in foreign currency exchange rates and a \$54 million favorable change in the mark-to-market remeasurement of our interest rate swaps.

Provision for Income Taxes

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Provision for income taxes	\$ 223	\$ 186	\$ 37	20%	\$ 407	\$ 209	\$ 198	95%
Effective tax rate	12%	34%			11%	27%		

Our provision for income taxes increased by \$37 million, or 20%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. Our provision for income taxes increased by \$198 million, or 95%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. The increases were primarily due to the increases in taxable profits within our foreign jurisdictions year over year.

Our effective tax rate decreased from 34% to 12% in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. Our effective tax rate decreased from 27% to 11% in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. The decreases were primarily due to growth in pre-tax income and changes in mix of jurisdictional earnings.

See Note 2, *Summary of Significant Accounting Policies*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q for further details.

Net Income Attributable to Noncontrolling Interests and Redeemable Noncontrolling Interests

(Dollars in millions)	Three Months Ended September 30,		Change		Nine Months Ended September 30,		Change	
	2021	2020	\$	%	2021	2020	\$	%
Net income attributable to noncontrolling interests and redeemable noncontrolling interests in subsidiaries	\$ 41	\$ 38	\$ 3	8%	\$ 103	\$ 115	\$ (12)	-10%

Net income attributable to noncontrolling interests and redeemable noncontrolling interests increased by \$3 million, or 8%, in the three months ended September 30, 2021 as compared to the three months ended September 30, 2020. Net income attributable to noncontrolling interests and redeemable noncontrolling interests decreased by \$12 million, or 10%, in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020. Our changes in net income attributable to noncontrolling interests and redeemable noncontrolling interests, which was related to activities in our financing fund arrangements, have been immaterial.

Liquidity and Capital Resources

We expect to continue to generate net positive operating cash flow as we have done in the last three fiscal years. The cash we generate from our core operations enables us to fund ongoing operations and production, our research and development projects for new products and technologies including our proprietary battery cells, additional manufacturing ramps at existing manufacturing facilities such as the Fremont Factory, Gigafactory Nevada, Gigafactory Shanghai and Gigafactory New York, the construction of Gigafactory Berlin and Gigafactory Texas, and the continued expansion of our retail and service locations, body shops, Mobile Service fleet, Supercharger network and energy product installation capabilities.

In addition, because a large portion of our future expenditures will be to fund our growth, we expect that if needed we will be able to adjust our capital and operating expenditures by operating segment. For example, if our near-term manufacturing operations decrease in scale or ramp more slowly than expected, including due to global economic or business conditions, we may choose to correspondingly slow the pace of our capital expenditures. Finally, we continually evaluate our cash needs and may decide it is best to raise additional capital or seek alternative financing sources to fund the rapid growth of our business, including through drawdowns on existing or new debt facilities or financing funds. Conversely, we may also from time to time determine that it is in our best interests to voluntarily repay certain indebtedness early.

Accordingly, we believe that our current sources of funds will provide us with adequate liquidity during the 12-month period following September 30, 2021, including to pay down near-term debt obligations, as well as in the long-term.

See the sections below for more details regarding the material requirements for cash in our business and our sources of liquidity to meet such needs.

Material Cash Requirements

From time to time in the ordinary course of business, we enter into agreements with vendors for the purchase of components and raw materials to be used in the manufacture of our products. However, due to contractual terms, variability in the precise growth curves of our development and production ramps, and opportunities to renegotiate pricing, we generally do not have binding and enforceable purchase orders under such contracts beyond the short term, and the timing and magnitude of purchase orders beyond such period is difficult to accurately project.

As discussed in and subject to the considerations referenced in Part I, Item 2, *Management's Discussion and Analysis of Financial Condition and Results of Operations—Management Opportunities, Challenges and Risks—Cash Flow and Capital Expenditure Trends* in this Quarterly Report on Form 10-Q, we currently expect our capital expenditures to support our projects globally to exceed \$6 billion in 2021 and be between \$5 to \$7 billion in each of the next two fiscal years. In connection with our operations at Gigafactory New York, we have an agreement to spend or incur \$5.0 billion in combined capital, operational expenses, costs of goods sold and other costs in the State of New York through December 31, 2029 (pursuant to a deferral of our required timelines to meet such obligations that was granted in April 2021 and which was memorialized in an amendment to our agreement with the SUNY Foundation in August 2021). We also have an operating lease arrangement with the local government of Shanghai pursuant to which we are required to spend RMB 14.08 billion in capital expenditures at Gigafactory Shanghai by the end of 2023. For details regarding these obligations, refer to Note 12, *Commitments and Contingencies*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q.

As of September 30, 2021, we and our subsidiaries had outstanding \$6.70 billion in aggregate principal amount of indebtedness, of which \$1.22 billion is scheduled to become due in the succeeding 12 months. For details regarding our indebtedness, refer to Note 10, *Debt*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q.

Sources and Conditions of Liquidity

Our sources to fund our material cash requirements are predominantly from our deliveries of vehicles, sales and installations of our energy storage products and solar energy systems, proceeds from debt facilities and proceeds from equity offerings.

As of September 30, 2021, we had \$16.07 billion of cash and cash equivalents. Balances held in foreign currencies had a U.S. dollar equivalent of \$5.79 billion and consisted primarily of Chinese yuan, euros and Canadian dollars. In addition, we had \$475 million of unused committed amounts under our credit facilities as of September 30, 2021. Certain of such unused committed amounts are subject to satisfying specified conditions prior to draw-down (such as pledging to our lenders sufficient amounts of qualified receivables, inventories, leased vehicles and our interests in those leases, solar energy systems and the associated customer contracts or various other assets). For details regarding our indebtedness, refer to Note 10, *Debt* to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q.

We continue adapting our investment strategy to meet our liquidity and risk objectives, such as investing in U.S. government and other marketable securities, digital assets and providing product related financing. In the first quarter of 2021, we invested an aggregate \$1.50 billion in bitcoin. In addition, during the three months ended March 31, 2021, we accepted bitcoin as a form of payment for sales of certain of our products in specified regions, subject to applicable laws, and suspended this practice in May 2021. We may in the future restart the practice of transacting in digital assets for our products and services. The fair market value of our bitcoin holdings as of September 30, 2021 was \$1.83 billion. We believe in the long-term potential of digital assets both as an investment and also as a liquid alternative to cash. As with any investment and consistent with how we manage fiat-based cash and cash-equivalent accounts, we may increase or decrease our holdings of digital assets at any time based on the needs of the business and our view of market and environmental conditions. However, digital assets may be subject to volatile market prices, which may be unfavorable at the times when we may want or need to liquidate them.

Summary of Cash Flows

(Dollars in millions)	Nine Months Ended September 30,	
	2021	2020
Net cash provided by operating activities	\$ 6,912	\$ 2,924
Net cash used in investing activities	\$ (5,952)	\$ (2,085)
Net cash (used in) provided by financing activities	\$ (3,946)	\$ 7,281

Cash Flows from Operating Activities

Our cash flows from operating activities are significantly affected by our cash investments to support the growth of our business in areas such as research and development and selling, general and administrative and working capital, especially inventory, which includes vehicles in transit. Our operating cash inflows include cash from vehicle sales, customer lease payments, customer deposits, cash from sales of regulatory credits and energy generation and storage products. These cash inflows are offset by our payments to suppliers for production materials and parts used in our manufacturing process, operating expenses, operating lease payments and interest payments on our financings.

Net cash provided by operating activities increased by \$3.99 billion to \$6.91 billion during the nine months ended September 30, 2021 from \$2.92 billion during the nine months ended September 30, 2020. This increase was primarily due to the increase in net income excluding non-cash expenses and gains of \$3.27 billion and the overall decrease in net operating assets and liabilities of \$721 million. The decrease in our net operating assets and liabilities was mainly driven by a larger increase in accounts payable and accrued liabilities in the nine months ended September 30, 2021 as compared to the nine months ended September 30, 2020 from ramp up in production at Gigafactory Shanghai and the Fremont Factory and a larger increase in deferred revenue from higher vehicle deliveries. The decrease in our net operating assets and liabilities was partially offset by a larger increase in operating lease vehicles as Model Y direct leasing was introduced in the third quarter of 2020 and a larger increase in other non-current assets.

Cash Flows from Investing Activities

Cash flows from investing activities and their variability across each period related primarily to capital expenditures, which were \$4.67 billion for the nine months ended September 30, 2021 and \$2.01 billion for the nine months ended September 30, 2020, mainly for construction of Gigafactory Texas and Gigafactory Berlin and production expansion of Gigafactory Shanghai and the Fremont Factory. Additionally, net cash activities related to digital assets were \$1.23 billion in the nine months ended September 30, 2021 from purchases of digital assets for \$1.50 billion and proceeds from sales of digital assets of \$272 million.

Cash Flows from Financing Activities

Net cash used in financing activities during the nine months ended September 30, 2021 was \$3.95 billion, which consisted primarily of \$5.14 billion of net repayments under our various debt facilities and \$311 million principal repayments of our finance leases. These cash outflows were partially offset by \$1.22 billion of net borrowings from our Automotive Asset-backed Notes and \$445 million of proceeds from exercise of stock options and other stock issuances. See Note 10, *Debt* to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q for further details regarding our debt obligations.

Net cash provided by financing activities during the nine months ended September 30, 2020 was \$7.28 billion, which consisted primarily of \$7.28 billion from issuances of common stock, net of issuance costs, \$361 million of proceeds from exercise of stock options and other stock issuances and \$315 million net borrowings from our Automotive Asset-backed Notes. These cash inflows were partially offset by \$248 million principal repayments of our finance leases, collateralized lease repayments of \$224 million and \$173 million net payments to financing fund investors.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Foreign Currency Risk

We transact business globally in multiple currencies and hence have foreign currency risks related to our revenue, costs of revenue, operating expenses and localized subsidiary debt denominated in currencies other than the U.S. dollar (primarily the Chinese yuan, euro, Norwegian krone and Canadian dollar in relation to our current year operations). In general, we are a net receiver of currencies other than the U.S. dollar for our foreign subsidiaries. Accordingly, changes in exchange rates affect our revenue and other operating results as expressed in U.S. dollars as we do not typically hedge foreign currency risk.

We have also experienced, and will continue to experience, fluctuations in our net income as a result of gains (losses) on the settlement and the re-measurement of monetary assets and liabilities denominated in currencies that are not the local currency (primarily consisting of our intercompany and cash and cash equivalents balances). For the nine months ended September 30, 2021, we recognized a net foreign currency gain of \$43 million in Other income (expense), net, with our largest re-measurement exposures from the U.S. dollar, Chinese yuan and Canadian dollar as our subsidiaries' monetary assets and liabilities are denominated in various local currencies. For the nine months ended September 30, 2020, we recognized a net foreign currency loss of \$144 million in Other income (expense), net, with our largest re-measurement exposures from the U.S. dollar, euro and Chinese yuan.

We considered the historical trends in foreign currency exchange rates and determined that it is reasonably possible that adverse changes in foreign currency exchange rates of 10% for all currencies could be experienced in the near-term. These changes were applied to our total monetary assets and liabilities denominated in currencies other than our local currencies at the balance sheet date to compute the impact these changes would have had on our net income before income taxes. These changes would have resulted in a loss of \$162 million at September 30, 2021 and \$8 million at December 31, 2020 assuming no foreign currency hedging.

Interest Rate Risk

We are exposed to interest rate risk on our borrowings that bear interest at floating rates. Pursuant to our risk management policies, in certain cases, we utilize derivative instruments to manage some of this risk. We do not enter into derivative instruments for trading or speculative purposes. A hypothetical 10% change in interest rates on our floating rate debt would have increased or decreased our interest expense for the nine months ended September 30, 2021 and 2020 by \$1 million and \$4 million, respectively.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and our Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures pursuant to Rule 13a-15 under the Securities Exchange Act of 1934, as amended (the "Exchange Act"). In designing and evaluating the disclosure controls and procedures, our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. In addition, the design of disclosure controls and procedures must reflect the fact that there are resource constraints and that our management is required to apply its judgment in evaluating the benefits of possible controls and procedures relative to their costs.

Based on this evaluation, our Chief Executive Officer and our Chief Financial Officer concluded that, as of September 30, 2021, our disclosure controls and procedures were designed at a reasonable assurance level and were effective to provide reasonable assurance that the information we are required to disclose in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and our Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosures.

Changes in Internal Control over Financial Reporting

There was no change in our internal control over financial reporting that occurred during the quarter ended September 30, 2021, which has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

For a description of our material pending legal proceedings, please see Note 12, *Commitments and Contingencies*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q.

In addition, each of the matters below is being disclosed pursuant to Item 103 of Regulation S-K because it relates to environmental regulations and aggregate civil penalties that we currently believe could potentially exceed \$1 million. We believe that any proceeding that is material to our business or financial condition is likely to have potential penalties far in excess of such amount.

The German Umweltbundesamt has issued our subsidiary in Germany a notice and fine in the amount of 12 million euro alleging its non-compliance under applicable laws relating to market participation notifications and take-back obligations with respect to end-of-life battery products required thereunder. In response to Tesla's objection, the German Umweltbundesamt issued Tesla a revised fine notice dated April 29, 2021 in which it reduced the original fine amount to 1.45 million euro. This is primarily relating to administrative requirements, but Tesla has continued to take back battery packs, and although we cannot predict the outcome of this matter, including the final amount of any penalties, we filed a new objection in June 2021 and it is not expected to have a material adverse impact on our business.

In April 2021, we received a notice from the Environmental Protection Agency (the "EPA") alleging that Tesla failed to provide records demonstrating compliance with certain requirements under the applicable National Emission Standards for Hazardous Air Pollutants under the Clean Air Act of 1963, as amended, relating to Surface Coating of Automobiles and Light-Duty Trucks regulations. Tesla has responded to all information requests from the EPA and refutes the allegations. While the outcome of this matter cannot be determined at this time, it is not currently expected to have a material adverse impact on our business.

ITEM 1A. RISK FACTORS

You should carefully consider the risks described below together with the other information set forth in this report, which could materially affect our business, financial condition and future results. The risks described below are not the only risks facing our company. Risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition and operating results.

Risks Related to Our Ability to Grow Our Business

We may be impacted by macroeconomic conditions resulting from the global COVID-19 pandemic.

Since the first quarter of 2020, there has been a worldwide impact from the COVID-19 pandemic. Government regulations and shifting social behaviors have limited or closed non-essential transportation, government functions, business activities and person-to-person interactions. In some cases, the relaxation of such trends has been followed by actual or contemplated returns to stringent restrictions on gatherings or commerce, including in parts of the U.S., and the rest of the world.

During 2020, we temporarily suspended operations at each of our manufacturing facilities worldwide, and certain of our suppliers also shut down operations temporarily or permanently, including during the recently re-imposed lockdowns in certain parts of the world. We instituted temporary employee furloughs and compensation reductions while our U.S. operations were scaled back. Temporary impediments to administrative activities supporting our operations also hampered our product deliveries and deployments.

Global trade conditions and consumer trends that originated during the pandemic continue to persist and may also have long-lasting adverse impact on us and our industries independently of the progress of the pandemic. For example, pandemic-related issues have exacerbated port congestion and intermittent supplier shutdowns and delays, resulting in additional expenses to expedite delivery of critical parts. Similarly, increased demand for personal electronics has created a shortfall of semiconductors, which has caused challenges in our supply chain and production. In addition, labor shortages resulting from the pandemic may lead to increased difficulty in hiring and retaining manufacturing and service workers, as well as increased labor costs. Sustaining our production trajectory will require the ongoing readiness and solvency of our suppliers and vendors, a stable and motivated production workforce and government cooperation, including for travel and visa allowances. The contingencies inherent in the construction of, and ramp at, new facilities such as Gigafactory Shanghai, Gigafactory Berlin and Gigafactory Texas may be exacerbated by these challenges.

We cannot predict the duration or direction of current global trends or their sustained impact. Ultimately, we continue to monitor macroeconomic conditions to remain flexible and to optimize and evolve our business as appropriate, and we will have to accurately project demand and infrastructure requirements globally and deploy our production, workforce and other resources accordingly. If we experience unfavorable global market conditions, or if we cannot or do not maintain operations at a scope that is commensurate with such conditions or are later required to or choose to suspend such operations again, our business, prospects, financial condition and operating results may be harmed.

We may experience delays in launching and ramping the production of our products and features, or we may be unable to control our manufacturing costs.

We have previously experienced and may in the future experience launch and production ramp delays for new products and features. For example, we encountered unanticipated supplier issues that led to delays during the initial ramp of our first Model X and experienced challenges with a supplier and with ramping full automation for certain of our initial Model 3 manufacturing processes. In addition, we may introduce in the future new or unique manufacturing processes and design features for our products. There is no guarantee that we will be able to successfully and timely introduce and scale such processes or features.

In particular, our future business depends in large part on increasing the production of mass-market vehicles including Model 3 and Model Y, which we are planning to achieve through multiple factories worldwide. We have relatively limited experience to date in manufacturing Model 3 and Model Y at high volumes and even less experience building and ramping vehicle production lines across multiple factories in different geographies. In order to be successful, we will need to implement, maintain and ramp efficient and cost-effective manufacturing capabilities, processes and supply chains and achieve the design tolerances, high quality and output rates we have planned at our manufacturing facilities in California, Nevada, Texas, China and Germany. We will also need to hire, train and compensate skilled employees to operate these facilities. Bottlenecks and other unexpected challenges such as those we experienced in the past may arise during our production ramps, and we must address them promptly while continuing to improve manufacturing processes and reducing costs. If we are not successful in achieving these goals, we could face delays in establishing and/or sustaining our Model 3 and Model Y ramps or be unable to meet our related cost and profitability targets.

We may also experience similar future delays in launching and/or ramping production of our energy storage products and Solar Roof; new product versions or variants such as the recently updated Model S and Model X; new vehicles such as Tesla Semi, Cybertruck and the new Tesla Roadster; and future features and services such as new Autopilot or FSD features and the autonomous

Tesla ride-hailing network. Likewise, we may encounter delays with the design, construction and regulatory or other approvals necessary to build and bring online future manufacturing facilities and products.

Any delay or other complication in ramping the production of our current products or the development, manufacture, launch and production ramp of our future products, features and services, or in doing so cost-effectively and with high quality, may harm our brand, business, prospects, financial condition and operating results.

We may be unable to grow our global product sales, delivery and installation capabilities and our servicing and vehicle charging networks, or we may be unable to accurately project and effectively manage our growth.

Our success will depend on our ability to continue to expand our sales capabilities. We are targeting with Model 3 and Model Y a global mass demographic with a broad range of potential customers, in which we have relatively limited experience projecting demand and pricing our products. We currently produce numerous international variants at a limited number of factories, and if our specific demand expectations for these variants prove inaccurate, we may not be able to timely generate deliveries matched to the vehicles that we produce in the same timeframe or that are commensurate with the size of our operations in a given region. Likewise, as we develop and grow our energy products and services worldwide, our success will depend on our ability to correctly forecast demand in various markets.

Because we do not have independent dealer networks, we are responsible for delivering all of our vehicles to our customers. We may face difficulties with deliveries at increasing volumes, particularly in international markets requiring significant transit times. For example, we saw challenges in ramping our logistics channels in China and Europe to initially deliver Model 3 there in the first quarter of 2019. We have deployed a number of delivery models, such as deliveries to customers' homes and workplaces and touchless deliveries, but there is no guarantee that such models will be scalable or be accepted globally. Likewise, as we ramp Solar Roof, we are working to substantially increase installation capabilities and decrease installation times. If we are not successful in matching such capabilities with actual production, or if we experience unforeseen production delays or inaccurately forecast demand for the Solar Roof, our business, financial condition and operating results may be harmed.

Moreover, because of our unique expertise with our vehicles, we recommend that our vehicles be serviced by us or by certain authorized professionals. If we experience delays in adding such servicing capacity or servicing our vehicles efficiently, or experience unforeseen issues with the reliability of our vehicles, particularly higher-volume and relatively newer additions to our fleet such as Model 3 and Model Y, it could overburden our servicing capabilities and parts inventory. Similarly, the increasing number of Tesla vehicles also requires us to continue to rapidly increase the number of our Supercharger stations and connectors throughout the world.

There is no assurance that we will be able to ramp our business to meet our sales, delivery, installation, servicing and vehicle charging targets globally, that our projections on which such targets are based will prove accurate or that the pace of growth or coverage of our customer infrastructure network will meet customer expectations. These plans require significant cash investments and management resources and there is no guarantee that they will generate additional sales or installations of our products, or that we will be able to avoid cost overruns or be able to hire additional personnel to support them. As we expand, we will also need to ensure our compliance with regulatory requirements in various jurisdictions applicable to the sale, installation and servicing of our products, the sale or dispatch of electricity related to our energy products and the operation of Superchargers. If we fail to manage our growth effectively, it may harm our brand, business, prospects, financial condition and operating results.

Our future growth and success are dependent upon consumers' demand for electric vehicles and specifically our vehicles in an automotive industry that is generally competitive, cyclical and volatile.

If the market for electric vehicles in general and Tesla vehicles in particular does not develop as we expect, develops more slowly than we expect, or if demand for our vehicles decreases in our markets or our vehicles compete with each other, our business, prospects, financial condition and operating results may be harmed.

We are still at an earlier stage of development and have limited resources and production relative to established competitors that offer internal combustion engine vehicles. In addition, electric vehicles still comprise a small percentage of overall vehicle sales. As a result, the market for our vehicles could be negatively affected by numerous factors, such as:

- perceptions about electric vehicle features, quality, safety, performance and cost;
- perceptions about the limited range over which electric vehicles may be driven on a single battery charge, and access to charging facilities;
- competition, including from other types of alternative fuel vehicles, plug-in hybrid electric vehicles and high fuel-economy internal combustion engine vehicles;
- volatility in the cost of oil and gasoline, such as wide fluctuations in crude oil prices during 2020;
- government regulations and economic incentives; and
- concerns about our future viability.

Finally, the target demographics for our vehicles, particularly Model 3 and Model Y, are highly competitive. Sales of vehicles in the automotive industry tend to be cyclical in many markets, which may expose us to further volatility.

Our suppliers may fail to deliver components according to schedules, prices, quality and volumes that are acceptable to us, or we may be unable to manage these components effectively.

Our products contain thousands of parts purchased globally from hundreds of suppliers, including single-source direct suppliers. This exposes us to multiple potential sources of component shortages, such as those that we experienced in 2012 and 2016 with our initial Model S and Model X ramps. Unexpected changes in business conditions, materials pricing, labor issues, wars, trade policies, natural disasters such as the March 2011 earthquakes in Japan, health epidemics such as the global COVID-19 pandemic, trade and shipping disruptions, port congestions and other factors beyond our or our suppliers' control could also affect these suppliers' ability to deliver components to us or to remain solvent and operational. For example, a global shortage of semiconductors has been reported since early 2021 and has caused challenges in the manufacturing industry and impacted our supply chain and production as well. We have used alternative parts and programmed software to mitigate the challenges caused by these shortages, but there is no guarantee we may be able to continually do so as we scale production to meet our growth targets. The unavailability of any component or supplier could result in production delays, idle manufacturing facilities, product design changes and loss of access to important technology and tools for producing and supporting our products, as well as impact our capacity expansion and our ability to fulfill our obligations under customer contracts. Moreover, significant increases in our production, such as for Model 3 and Model Y, or product design changes by us have required and may in the future require us to procure additional components in a short amount of time. Our suppliers may not be willing or able to sustainably meet our timelines or our cost, quality and volume needs, or to do so may cost us more, which may require us to replace them with other sources. Finally, we have limited vehicle manufacturing experience outside of the Fremont Factory and we may experience issues increasing the level of localized procurement at our Gigafactory Shanghai and at future factories such as Gigafactory Berlin and Gigafactory Texas. While we believe that we will be able to secure additional or alternate sources or develop our own replacements for most of our components, there is no assurance that we will be able to do so quickly or at all. Additionally, we may be unsuccessful in our continuous efforts to negotiate with existing suppliers to obtain cost reductions and avoid unfavorable changes to terms, source less expensive suppliers for certain parts and redesign certain parts to make them less expensive to produce, especially in light of the increases in materials pricing. Any of these occurrences may harm our business, prospects, financial condition and operating results.

As the scale of our vehicle production increases, we will also need to accurately forecast, purchase, warehouse and transport components at high volumes to our manufacturing facilities and servicing locations internationally. If we are unable to accurately match the timing and quantities of component purchases to our actual needs or successfully implement automation, inventory management and other systems to accommodate the increased complexity in our supply chain and parts management, we may incur unexpected production disruption, storage, transportation and write-off costs, which may harm our business and operating results.

We may be unable to meet our projected construction timelines, costs and production ramps at new factories, or we may experience difficulties in generating and maintaining demand for products manufactured there.

Our ability to increase production of our vehicles on a sustained basis, make them affordable globally by accessing local supply chains and workforces and streamline delivery logistics is dependent on the construction and ramp of Gigafactory Shanghai, Gigafactory Berlin and Gigafactory Texas. The construction of and commencement and ramp of production at these factories are subject to a number of uncertainties inherent in all new manufacturing operations, including ongoing compliance with regulatory requirements, procurement and maintenance of construction, environmental and operational licenses and approvals for additional expansion, potential supply chain constraints, hiring, training and retention of qualified employees and the pace of bringing production equipment and processes online with the capability to manufacture high-quality units at scale. For example, we are currently constructing Gigafactory Berlin under conditional permits in anticipation of being granted final permits. Moreover, we will have to establish and ramp production of our proprietary battery cells and packs at our new factories, and we additionally intend to incorporate sequential design and manufacturing changes into vehicles manufactured at each new factory. We have limited experience to date with developing and implementing manufacturing innovations outside of the Fremont Factory, as we began production at Gigafactory Shanghai relatively recently. In particular, the majority of our design and engineering resources are currently located in California. In order to meet our expectations for our new factories, we must expand and manage localized design and engineering talent and resources. If we experience any issues or delays in meeting our projected timelines, costs, capital efficiency and production capacity for our new factories, expanding and managing teams to implement iterative design and production changes there, maintaining and complying with the terms of any debt financing that we obtain to fund them or generating and maintaining demand for the vehicles we manufacture there, our business, prospects, operating results and financial condition may be harmed.

We will need to maintain and significantly grow our access to battery cells, including through the development and manufacture of our own cells, and control our related costs.

We are dependent on the continued supply of lithium-ion battery cells for our vehicles and energy storage products, and we will require substantially more cells to grow our business according to our plans. Currently, we rely on suppliers such as Panasonic for these cells. However, we have to date fully qualified only a very limited number of such suppliers and have limited flexibility in

changing suppliers. Any disruption in the supply of battery cells from our suppliers could limit production of our vehicles and energy storage products. In the long term, we intend to supplement cells from our suppliers with cells manufactured by us, which we believe will be more efficient, manufacturable at greater volumes and more cost-effective than currently available cells. However, our efforts to develop and manufacture such battery cells have required and may require significant investments, and there can be no assurance that we will be able to achieve these targets in the timeframes that we have planned or at all. If we are unable to do so, we may have to curtail our planned vehicle and energy storage product production or procure additional cells from suppliers at potentially greater costs, either of which may harm our business and operating results.

In addition, the cost of battery cells, whether manufactured by our suppliers or by us, depends in part upon the prices and availability of raw materials such as lithium, nickel, cobalt and/or other metals. The prices for these materials fluctuate and their available supply may be unstable, depending on market conditions and global demand for these materials, including as a result of increased global production of electric vehicles and energy storage products. Any reduced availability of these materials may impact our access to cells and any increases in their prices may reduce our profitability if we cannot recoup the increased costs through increased vehicle prices. Moreover, any such attempts to increase product prices may harm our brand, prospects and operating results.

We face strong competition for our products and services from a growing list of established and new competitors.

The worldwide automotive market is highly competitive today and we expect it will become even more so in the future. For example, Model 3 and Model Y face competition from existing and future automobile manufacturers in the extremely competitive entry-level premium sedan and compact SUV markets. A significant and growing number of established and new automobile manufacturers, as well as other companies, have entered or are reported to have plans to enter the market for electric and other alternative fuel vehicles, including hybrid, plug-in hybrid and fully electric vehicles, as well as the market for self-driving technology and other vehicle applications and software platforms. In some cases, our competitors offer or will offer electric vehicles in important markets such as China and Europe, and/or have announced an intention to produce electric vehicles exclusively at some point in the future. Many of our competitors have significantly greater or better-established resources than we do to devote to the design, development, manufacturing, distribution, promotion, sale and support of their products. Increased competition could result in our lower vehicle unit sales, price reductions, revenue shortfalls, loss of customers and loss of market share, which may harm our business, financial condition and operating results.

We also face competition in our energy generation and storage business from other manufacturers, developers, installers and service providers of competing energy technologies, as well as from large utilities. Decreases in the retail or wholesale prices of electricity from utilities or other renewable energy sources could make our products less attractive to customers and lead to an increased rate of residential customer defaults under our existing long-term leases and PPAs.

Risks Related to Our Operations

We may experience issues with lithium-ion cells or other components manufactured at Gigafactory Nevada, which may harm the production and profitability of our vehicle and energy storage products.

Our plan to grow the volume and profitability of our vehicles and energy storage products depends on significant lithium-ion battery cell production, including by our partner Panasonic at Gigafactory Nevada. Although Panasonic has a long track record of producing high-quality cells at significant volume at its factories in Japan, it has relatively limited experience with cell production at Gigafactory Nevada, which began in 2017. In addition, we produce several vehicle components, such as battery modules and packs incorporating the cells produced by Panasonic for Model 3 and Model Y and drive units (including to support Gigafactory Shanghai production), at Gigafactory Nevada, and we also manufacture energy storage products there. In the past, some of the manufacturing lines for certain product components took longer than anticipated to ramp to their full capacity, and additional bottlenecks may arise in the future as we continue to increase the production rate and introduce new lines. If we or Panasonic are unable to or otherwise do not maintain and grow our respective operations at Gigafactory Nevada production, or if we are unable to do so cost-effectively or hire and retain highly-skilled personnel there, our ability to manufacture our products profitably would be limited, which may harm our business and operating results.

Finally, the high volumes of lithium-ion cells and battery modules and packs manufactured at Gigafactory Nevada are stored and recycled at our various facilities. Any mishandling of battery cells may cause disruption to the operation of such facilities. While we have implemented safety procedures related to the handling of the cells, there can be no assurance that a safety issue or fire related to the cells would not disrupt our operations. Any such disruptions or issues may harm our brand and business.

We face risks associated with maintaining and expanding our international operations, including unfavorable and uncertain regulatory, political, economic, tax and labor conditions.

We are subject to legal and regulatory requirements, political uncertainty and social, environmental and economic conditions in numerous jurisdictions, including markets in which we generate significant sales, over which we have little control and which are inherently unpredictable. Our operations in such jurisdictions, particularly as a company based in the U.S., create risks relating to

conforming our products to regulatory and safety requirements and charging and other electric infrastructures; organizing local operating entities; establishing, staffing and managing foreign business locations; attracting local customers; navigating foreign government taxes, regulations and permit requirements; enforceability of our contractual rights; trade restrictions, customs regulations, tariffs and price or exchange controls; and preferences in foreign nations for domestically manufactured products. Such conditions may increase our costs, impact our ability to sell our products and require significant management attention, and may harm our business if we are unable to manage them effectively.

Our business may suffer if our products or features contain defects, fail to perform as expected or take longer than expected to become fully functional.

If our products contain design or manufacturing defects that cause them not to perform as expected or that require repair, or certain features of our vehicles such as new Autopilot or FSD features take longer than expected to become enabled, are legally restricted or become subject to onerous regulation, our ability to develop, market and sell our products and services may be harmed, and we may experience delivery delays, product recalls, product liability, breach of warranty and consumer protection claims and significant warranty and other expenses. For example, we are developing self-driving and driver assist technologies to rely on vision-based sensors, unlike alternative technologies in development that additionally require other redundant sensors. There is no guarantee that any incremental changes in the specific equipment we deploy in our vehicles over time will not result in initial functional disparities from prior iterations or will perform as expected in the timeframe we anticipate, or at all.

Our products are also highly dependent on software, which is inherently complex and may contain latent defects or errors or be subject to external attacks. Issues experienced by our customers have included those related to the Model S and Model X 17-inch display screen, the panoramic roof and the 12-volt battery in the Model S, the seats and doors in the Model X and the operation of solar panels installed by us. Although we attempt to remedy any issues we observe in our products as effectively and rapidly as possible, such efforts may not be timely, may hamper production or may not completely satisfy our customers. While we have performed extensive internal testing on our products and features, we currently have a limited frame of reference by which to evaluate their long-term quality, reliability, durability and performance characteristics. There can be no assurance that we will be able to detect and fix any defects in our products prior to their sale to or installation for customers.

We may be required to defend or insure against product liability claims.

The automobile industry generally experiences significant product liability claims, and as such we face the risk of such claims in the event our vehicles do not perform or are claimed to not have performed as expected. As is true for other automakers, our vehicles have been involved and we expect in the future will be involved in accidents resulting in death or personal injury, and such accidents where Autopilot or FSD features are engaged are the subject of significant public attention. We have experienced and we expect to continue to face claims and regulatory scrutiny arising from or related to misuse or claimed failures of such new technologies that we are pioneering. In addition, the battery packs that we produce make use of lithium-ion cells. On rare occasions, lithium-ion cells can rapidly release the energy they contain by venting smoke and flames in a manner that can ignite nearby materials as well as other lithium-ion cells. While we have designed our battery packs to passively contain any single cell's release of energy without spreading to neighboring cells, there can be no assurance that a field or testing failure of our vehicles or other battery packs that we produce will not occur, in particular due to a high-speed crash. Likewise, as our solar energy systems and energy storage products generate and store electricity, they have the potential to fail or cause injury to people or property. Any product liability claim may subject us to lawsuits and substantial monetary damages, product recalls or redesign efforts, and even a meritless claim may require us to defend it, all of which may generate negative publicity and be expensive and time-consuming. In most jurisdictions, we generally self-insure against the risk of product liability claims for vehicle exposure, meaning that any product liability claims will likely have to be paid from company funds and not by insurance.

We will need to maintain public credibility and confidence in our long-term business prospects in order to succeed.

In order to maintain and grow our business, we must maintain credibility and confidence among customers, suppliers, analysts, investors, ratings agencies and other parties in our long-term financial viability and business prospects. Maintaining such confidence may be challenging due to our limited operating history relative to established competitors; customer unfamiliarity with our products; any delays we may experience in scaling manufacturing, delivery and service operations to meet demand; competition and uncertainty regarding the future of electric vehicles or our other products and services; our quarterly production and sales performance compared with market expectations; and other factors including those over which we have no control. In particular, Tesla's products, business, results of operations, statements and actions are well-publicized by a range of third parties. Such attention includes frequent criticism, which is often exaggerated or unfounded, such as speculation regarding the sufficiency or stability of our management team. Any such negative perceptions, whether caused by us or not, may harm our business and make it more difficult to raise additional funds if needed.

We may be unable to effectively grow, or manage the compliance, residual value, financing and credit risks related to, our various financing programs.

We offer financing arrangements for our vehicles in North America, Europe and Asia primarily through various financial institutions. We also currently offer vehicle financing arrangements directly through our local subsidiaries in certain markets. Depending on the country, such arrangements are available for specified models and may include operating leases directly with us under which we typically receive only a very small portion of the total vehicle purchase price at the time of lease, followed by a stream of payments over the term of the lease. We have also offered various arrangements for customers of our solar energy systems whereby they pay us a fixed payment to lease or finance the purchase of such systems or purchase electricity generated by them. If we do not successfully monitor and comply with applicable national, state and/or local financial regulations and consumer protection laws governing these transactions, we may become subject to enforcement actions or penalties.

The profitability of any directly-leased vehicles returned to us at the end of their leases depends on our ability to accurately project our vehicles' residual values at the outset of the leases, and such values may fluctuate prior to the end of their terms depending on various factors such as supply and demand of our used vehicles, economic cycles and the pricing of new vehicles. We have made in the past and may make in the future certain adjustments to our prices from time to time in the ordinary course of business, which may impact the residual values of our vehicles and reduce the profitability of our vehicle leasing program. The funding and growth of this program also relies on our ability to secure adequate financing and/or business partners. If we are unable to adequately fund our leasing program through internal funds, partners or other financing sources, and compelling alternative financing programs are not available for our customers who may expect or need such options, we may be unable to grow our vehicle deliveries. Furthermore, if our vehicle leasing business grows substantially, our business may suffer if we cannot effectively manage the resulting greater levels of residual risk.

Similarly, we have provided resale value guarantees to vehicle customers and partners for certain financing programs, under which such counterparties may sell their vehicles back to us at certain points in time at pre-determined amounts. However, actual resale values are subject to fluctuations over the term of the financing arrangements, such as from the vehicle pricing changes discussed above. If the actual resale values of any vehicles resold or returned to us pursuant to these programs are materially lower than the pre-determined amounts we have offered, our financial condition and operating results may be harmed.

Finally, our vehicle and solar energy system financing programs and our energy storage sales programs also expose us to customer credit risk. In the event of a widespread economic downturn or other catastrophic event, our customers may be unable or unwilling to satisfy their payment obligations to us on a timely basis or at all. If a significant number of our customers default, we may incur substantial credit losses and/or impairment charges with respect to the underlying assets.

We must manage ongoing obligations under our agreement with the Research Foundation for the State University of New York relating to our Gigafactory New York.

We are party to an operating lease and a research and development agreement through the SUNY Foundation. These agreements provide for the construction and use of our Gigafactory New York, which we have primarily used for the development and production of our Solar Roof and other solar products and components, energy storage components and Supercharger components, and for other lessor-approved functions. Under this agreement, we are obligated to, among other things, meet employment targets as well as specified minimum numbers of personnel in the State of New York and in Buffalo, New York and spend or incur \$5.00 billion in combined capital, operational expenses, costs of goods sold and other costs in the State of New York during a period that was initially 10 years beginning April 30, 2018. As we temporarily suspended most of our manufacturing operations at Gigafactory New York pursuant to a New York State executive order issued in March 2020 as a result of the COVID-19 pandemic, we were granted a one-year deferral of our obligation to be compliant with our applicable targets under such agreement on April 30, 2020, which was memorialized in an amendment to our agreement with the SUNY Foundation in July 2020. In April 2021, we were granted an additional deferral through December 31, 2021 which was memorialized in an amendment to our agreement with the SUNY Foundation in August 2021, as our operations at Gigafactory New York have not yet fully ramped due to a number of factors related to the pandemic. While we expect to have and grow significant operations at Gigafactory New York and the surrounding Buffalo area, any failure by us in any year over the course of the term of the agreement to meet all applicable future obligations may result in our obligation to pay a "program payment" of \$41 million to the SUNY Foundation for such year, the termination of our lease at Gigafactory New York which may require us to pay additional penalties, and/or the need to adjust certain of our operations, in particular our production ramp of the Solar Roof or other components. Any of the foregoing events may harm our business, financial condition and operating results.

If we are unable to attract, hire and retain key employees and qualified personnel, our ability to compete may be harmed.

The loss of the services of any of our key employees or any significant portion of our workforce could disrupt our operations or delay the development, introduction and ramp of our products and services. In particular, we are highly dependent on the services of Elon Musk, Technoking of Tesla and our Chief Executive Officer. None of our key employees is bound by an employment agreement for any specific term and we may not be able to successfully attract and retain senior leadership necessary to grow our business. Our

future success also depends upon our ability to attract, hire and retain a large number of engineering, manufacturing, marketing, sales and delivery, service, installation, technology and support personnel, especially to support our planned high-volume product sales, market and geographical expansion and technological innovations. Recruiting efforts, particularly for senior employees, may be time-consuming, which may delay the execution of our plans. If we are not successful in managing these risks, our business, financial condition and operating results may be harmed.

Employees may leave Tesla or choose other employers over Tesla due to various factors, such as a very competitive labor market for talented individuals with automotive or technology experience, or any negative publicity related to us. In regions where we have or will have operations, particularly significant engineering and manufacturing centers, there is strong competition for individuals with skillsets needed for our business, including specialized knowledge of electric vehicles, engineering and electrical and building construction expertise. Moreover, we may be impacted by perceptions relating to reductions in force that we have conducted in the past in order to optimize our organizational structure and reduce costs and the departure of certain senior personnel for various reasons. Likewise, as a result of our temporary suspension of various U.S. manufacturing operations in the first half of 2020, in April 2020 we temporarily furloughed certain hourly employees and reduced most salaried employees' base salaries. We also compete with both mature and prosperous companies that have far greater financial resources than we do and start-ups and emerging companies that promise short-term growth opportunities.

Finally, our compensation philosophy for all of our personnel reflects our startup origins, with an emphasis on equity-based awards and benefits in order to closely align their incentives with the long-term interests of our stockholders. We periodically seek and obtain approval from our stockholders for future increases to the number of awards available under our equity incentive and employee stock purchase plans. If we are unable to obtain the requisite stockholder approvals for such future increases, we may have to expend additional cash to compensate our employees and our ability to retain and hire qualified personnel may be harmed.

We are highly dependent on the services of Elon Musk, Technoking of Tesla and our Chief Executive Officer.

We are highly dependent on the services of Elon Musk, Technoking of Tesla and our Chief Executive Officer. Although Mr. Musk spends significant time with Tesla and is highly active in our management, he does not devote his full time and attention to Tesla. Mr. Musk also currently serves as Chief Executive Officer and Chief Technical Officer of Space Exploration Technologies Corp., a developer and manufacturer of space launch vehicles, and is involved in other emerging technology ventures.

We must manage risks relating to our information technology systems and the threat of intellectual property theft, data breaches and cyber-attacks.

We must continue to expand and improve our information technology systems as our operations grow, such as product data management, procurement, inventory management, production planning and execution, sales, service and logistics, dealer management, financial, tax and regulatory compliance systems. This includes the implementation of new internally developed systems and the deployment of such systems in the U.S. and abroad. We must also continue to maintain information technology measures designed to protect us against intellectual property theft, data breaches, sabotage and other external or internal cyber-attacks or misappropriation. However, the implementation, maintenance, segregation and improvement of these systems require significant management time, support and cost, and there are inherent risks associated with developing, improving and expanding our core systems as well as implementing new systems and updating current systems, including disruptions to the related areas of business operation. These risks may affect our ability to manage our data and inventory, procure parts or supplies or manufacture, sell, deliver and service products, adequately protect our intellectual property or achieve and maintain compliance with, or realize available benefits under, tax laws and other applicable regulations.

Moreover, if we do not successfully implement, maintain or expand these systems as planned, our operations may be disrupted, our ability to accurately and/or timely report our financial results could be impaired and deficiencies may arise in our internal control over financial reporting, which may impact our ability to certify our financial results. Moreover, our proprietary information or intellectual property could be compromised or misappropriated and our reputation may be adversely affected. If these systems or their functionality do not operate as we expect them to, we may be required to expend significant resources to make corrections or find alternative sources for performing these functions.

Any unauthorized control or manipulation of our products' systems could result in loss of confidence in us and our products.

Our products contain complex information technology systems. For example, our vehicles and energy storage products are designed with built-in data connectivity to accept and install periodic remote updates from us to improve or update their functionality. While we have implemented security measures intended to prevent unauthorized access to our information technology networks, our products and their systems, malicious entities have reportedly attempted, and may attempt in the future, to gain unauthorized access to modify, alter and use such networks, products and systems to gain control of, or to change, our products' functionality, user interface and performance characteristics or to gain access to data stored in or generated by our products. We encourage reporting of potential vulnerabilities in the security of our products through our security vulnerability reporting policy, and we aim to remedy any reported

and verified vulnerability. However, there can be no assurance that any vulnerabilities will not be exploited before they can be identified, or that our remediation efforts are or will be successful.

Any unauthorized access to or control of our products or their systems or any loss of data could result in legal claims or government investigations. In addition, regardless of their veracity, reports of unauthorized access to our products, their systems or data, as well as other factors that may result in the perception that our products, their systems or data are capable of being hacked, may harm our brand, prospects and operating results. We have been the subject of such reports in the past.

Our business may be adversely affected by any disruptions caused by union activities.

It is not uncommon for employees of certain trades at companies such as us to belong to a union, which can result in higher employee costs and increased risk of work stoppages. Moreover, regulations in some jurisdictions outside of the U.S. mandate employee participation in industrial collective bargaining agreements and work councils with certain consultation rights with respect to the relevant companies' operations. Although we work diligently to provide the best possible work environment for our employees, they may still decide to join or seek recognition to form a labor union, or we may be required to become a union signatory. From time to time, labor unions have engaged in campaigns to organize certain of our operations, as part of which such unions have filed unfair labor practice charges against us with the National Labor Relations Board (the "NLRB"), and they may do so in the future. In September 2019, an administrative law judge issued a recommended decision for Tesla on certain issues and against us on certain others. In March 2021, the NLRB adopted a portion of the recommendation and overturned others. Tesla appealed the decision to the United States Circuit Court for the Fifth Circuit, which is currently pending. Any unfavorable ultimate outcome for Tesla may have a negative impact on the perception of Tesla's treatment of our employees. Furthermore, we are directly or indirectly dependent upon companies with unionized work forces, such as suppliers and trucking and freight companies. Any work stoppages or strikes organized by such unions could delay the manufacture and sale of our products and may harm our business and operating results.

We may choose to or be compelled to undertake product recalls or take other similar actions.

As a manufacturing company, we must manage the risk of product recalls with respect to our products. Recalls for our vehicles have resulted from, for example, industry-wide issues with airbags from a particular supplier, concerns of corrosion in Model S and Model X power steering assist motor bolts, certain suspension failures in Model S and Model X, issues with Model S and Model X media control units and improper torqueing of bolts to internal specifications on Model 3 and Model Y. In addition to recalls initiated by us for various causes, testing of or investigations into our products by government regulators or industry groups may compel us to initiate product recalls or may result in negative public perceptions about the safety of our products, even if we disagree with the defect determination or have data that shows the actual safety risk to be non-existent. In the future, we may voluntarily or involuntarily initiate recalls if any of our products are determined by us or a regulator to contain a safety defect or be noncompliant with applicable laws and regulations, such as U.S. federal motor vehicle safety standards. Such recalls, whether voluntary or involuntary or caused by systems or components engineered or manufactured by us or our suppliers, could result in significant expense, supply chain complications and service burdens, and may harm our brand, business, prospects, financial condition and operating results.

Our current and future warranty reserves may be insufficient to cover future warranty claims.

We provide a manufacturer's warranty on all new and used Tesla vehicles we sell. We also provide certain warranties with respect to the energy generation and storage systems we sell, including on their installation and maintenance. For components not manufactured by us, we generally pass through to our customers the applicable manufacturers' warranties, but may retain some warranty responsibilities for some or all of the life of such components. As part of our energy generation and storage system contracts, we may provide the customer with performance guarantees that guarantee that the underlying system will meet or exceed the minimum energy generation or other energy performance requirements specified in the contract. Under these performance guarantees, we generally bear the risk of electricity production or other performance shortfalls, even if they result from failures in components from third party manufacturers. These risks are exacerbated in the event such manufacturers cease operations or fail to honor their warranties.

If our warranty reserves are inadequate to cover future warranty claims on our products, our financial condition and operating results may be harmed. Warranty reserves include our management's best estimates of the projected costs to repair or to replace items under warranty, which are based on actual claims incurred to date and an estimate of the nature, frequency and costs of future claims. Such estimates are inherently uncertain and changes to our historical or projected experience, especially with respect to products such as Model 3, Model Y and Solar Roof that we have introduced relatively recently and/or that we expect to produce at significantly greater volumes than our past products, may cause material changes to our warranty reserves in the future.

Our insurance coverage strategy may not be adequate to protect us from all business risks.

We may be subject, in the ordinary course of business, to losses resulting from products liability, accidents, acts of God and other claims against us, for which we may have no insurance coverage. As a general matter, we do not maintain as much insurance

coverage as many other companies do, and in some cases, we do not maintain any at all. Additionally, the policies that we do have may include significant deductibles or self-insured retentions, policy limitations and exclusions, and we cannot be certain that our insurance coverage will be sufficient to cover all future losses or claims against us. A loss that is uninsured or which exceeds policy limits may require us to pay substantial amounts, which may harm our financial condition and operating results.

There is no guarantee that we will have sufficient cash flow from our business to pay our indebtedness or that we will not incur additional indebtedness.

As of September 30, 2021, we and our subsidiaries had outstanding \$6.70 billion in aggregate principal amount of indebtedness (see Note 10, *Debt*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q). Our consolidated indebtedness may increase our vulnerability to any generally adverse economic and industry conditions. We and our subsidiaries may, subject to the limitations in the terms of our existing and future indebtedness, incur additional debt, secure existing or future debt or recapitalize our debt.

Holders of convertible senior notes issued by us or our subsidiary may convert such notes at their option prior to the scheduled maturities of the respective convertible senior notes under certain circumstances pursuant to the terms of such notes. Upon conversion of the applicable convertible senior notes, we will be obligated to deliver cash and/or shares pursuant to the terms of such notes. For example, as our stock price has significantly increased, we have seen higher levels of early conversions of such “in-the-money” convertible senior notes. Moreover, holders of such convertible senior notes may have the right to require us to repurchase their notes upon the occurrence of a fundamental change pursuant to the terms of such notes.

Our ability to make scheduled payments of the principal and interest on our indebtedness when due, to make payments upon conversion or repurchase demands with respect to our convertible senior notes or to refinance our indebtedness as we may need or desire, depends on our future performance, which is subject to economic, financial, competitive and other factors beyond our control. Our business may not continue to generate cash flow from operations in the future sufficient to satisfy our obligations under our existing indebtedness and any future indebtedness we may incur, and to make necessary capital expenditures. If we are unable to generate such cash flow, we may be required to adopt one or more alternatives, such as reducing or delaying investments or capital expenditures, selling assets, refinancing or obtaining additional equity capital on terms that may be onerous or highly dilutive. Our ability to refinance existing or future indebtedness will depend on the capital markets and our financial condition at such time. In addition, our ability to make payments may be limited by law, by regulatory authority or by agreements governing our future indebtedness. We may not be able to engage in these activities on desirable terms or at all, which may result in a default on our existing or future indebtedness and harm our financial condition and operating results.

Our debt agreements contain covenant restrictions that may limit our ability to operate our business.

The terms of certain of our credit facilities, including our senior asset-based revolving credit agreement, contain, and any of our other future debt agreements may contain, covenant restrictions that limit our ability to operate our business, including restrictions on our ability to, among other things, incur additional debt or issue guarantees, create liens, repurchase stock, or make other restricted payments, and make certain voluntary prepayments of specified debt. In addition, under certain circumstances we are required to comply with a fixed charge coverage ratio. As a result of these covenants, our ability to respond to changes in business and economic conditions and engage in beneficial transactions, including to obtain additional financing as needed, may be restricted. Furthermore, our failure to comply with our debt covenants could result in a default under our debt agreements, which could permit the holders to accelerate our obligation to repay the debt. If any of our debt is accelerated, we may not have sufficient funds available to repay it.

Additional funds may not be available to us when we need or want them.

Our business and our future plans for expansion are capital-intensive, and the specific timing of cash inflows and outflows may fluctuate substantially from period to period. We may need or want to raise additional funds through the issuance of equity, equity-related or debt securities or through obtaining credit from financial institutions to fund, together with our principal sources of liquidity, the costs of developing and manufacturing our current or future products, to pay any significant unplanned or accelerated expenses or for new significant strategic investments, or to refinance our significant consolidated indebtedness, even if not required to do so by the terms of such indebtedness. We cannot be certain that additional funds will be available to us on favorable terms when required, or at all. If we cannot raise additional funds when we need them, our financial condition, results of operations, business and prospects could be materially and adversely affected.

We may be negatively impacted by any early obsolescence of our manufacturing equipment.

We depreciate the cost of our manufacturing equipment over their expected useful lives. However, product cycles or manufacturing technology may change periodically, and we may decide to update our products or manufacturing processes more quickly than expected. Moreover, improvements in engineering and manufacturing expertise and efficiency may result in our ability to manufacture our products using less of our currently installed equipment. Alternatively, as we ramp and mature the production of our products to higher levels, we may discontinue the use of already installed equipment in favor of different or additional equipment. The

useful life of any equipment that would be retired early as a result would be shortened, causing the depreciation on such equipment to be accelerated, and our results of operations may be harmed.

We hold and may acquire digital assets that may be subject to volatile market prices, impairment and unique risks of loss.

In January 2021, we updated our investment policy to provide us with more flexibility to further diversify and maximize returns on our cash that is not required to maintain adequate operating liquidity, allowing us to invest a portion of such cash in certain alternative reserve assets including digital assets, gold bullion, gold exchange-traded funds and other assets as specified in the future. Thereafter, we invested certain of such cash in bitcoin and also accepted bitcoin as a form of payment for sales of certain of our products in specified regions, subject to applicable laws, and suspended this practice in May 2021. We believe in the long-term potential of digital assets both as an investment and also as a liquid alternative to cash. As with any investment and consistent with how we manage fiat-based cash and cash equivalent accounts, we may increase or decrease our holdings of digital assets at any time based on the needs of the business and on our view of market and environmental conditions.

The prices of digital assets have been in the past and may continue to be highly volatile, including as a result of various associated risks and uncertainties. For example, the prevalence of such assets is a relatively recent trend, and their long-term adoption by investors, consumers and businesses is unpredictable. Moreover, their lack of a physical form, their reliance on technology for their creation, existence and transactional validation and their decentralization may subject their integrity to the threat of malicious attacks and technological obsolescence. Finally, the extent to which securities laws or other regulations apply or may apply in the future to such assets is unclear and may change in the future. If we hold digital assets and their values decrease relative to our purchase prices, our financial condition may be harmed.

Moreover, digital assets are currently considered indefinite-lived intangible assets under applicable accounting rules, meaning that any decrease in their fair values below our carrying values for such assets at any time subsequent to their acquisition will require us to recognize impairment charges, whereas we may make no upward revisions for any market price increases until a sale, which may adversely affect our operating results in any period in which such impairment occurs. Moreover, there is no guarantee that future changes in GAAP will not require us to change the way we account for digital assets held by us.

Finally, as intangible assets without centralized issuers or governing bodies, digital assets have been, and may in the future be, subject to security breaches, cyberattacks or other malicious activities, as well as human errors or computer malfunctions that may result in the loss or destruction of private keys needed to access such assets. While we intend to take all reasonable measures to secure any digital assets, if such threats are realized or the measures or controls we create or implement to secure our digital assets fail, it could result in a partial or total misappropriation or loss of our digital assets, and our financial condition and operating results may be harmed.

We are exposed to fluctuations in currency exchange rates.

We transact business globally in multiple currencies and have foreign currency risks related to our revenue, costs of revenue, operating expenses and localized subsidiary debt denominated in currencies other than the U.S. dollar, currently primarily the Chinese yuan, euro, Norwegian krone and Canadian dollar. To the extent we have significant revenues denominated in such foreign currencies, any strengthening of the U.S. dollar would tend to reduce our revenues as measured in U.S. dollars, as we have historically experienced. In addition, a portion of our costs and expenses have been, and we anticipate will continue to be, denominated in foreign currencies, including the Chinese yuan and Japanese yen. If we do not have fully offsetting revenues in these currencies and if the value of the U.S. dollar depreciates significantly against these currencies, our costs as measured in U.S. dollars as a percent of our revenues will correspondingly increase and our margins will suffer. Moreover, while we undertake limited hedging activities intended to offset the impact of currency translation exposure, it is impossible to predict or eliminate such impact. As a result, our operating results may be harmed.

We may need to defend ourselves against intellectual property infringement claims, which may be time-consuming and expensive.

Our competitors or other third parties may hold or obtain patents, copyrights, trademarks or other proprietary rights that could prevent, limit or interfere with our ability to make, use, develop, sell or market our products and services, which could make it more difficult for us to operate our business. From time to time, the holders of such intellectual property rights may assert their rights and urge us to take licenses and/or may bring suits alleging infringement or misappropriation of such rights, which could result in substantial costs, negative publicity and management attention, regardless of merit. While we endeavor to obtain and protect the intellectual property rights that we expect will allow us to retain or advance our strategic initiatives, there can be no assurance that we will be able to adequately identify and protect the portions of intellectual property that are strategic to our business, or mitigate the risk of potential suits or other legal demands by our competitors. Accordingly, we may consider the entering into licensing agreements with respect to such rights, although no assurance can be given that such licenses can be obtained on acceptable terms or that litigation will not occur, and such licenses and associated litigation could significantly increase our operating expenses. In addition, if we are determined to have or believe there is a high likelihood that we have infringed upon a third party's intellectual property rights, we may

be required to cease making, selling or incorporating certain components or intellectual property into the goods and services we offer, to pay substantial damages and/or license royalties, to redesign our products and services and/or to establish and maintain alternative branding for our products and services. In the event that we are required to take one or more such actions, our brand, business, financial condition and operating results may be harmed.

Our operations could be adversely affected by events outside of our control, such as natural disasters, wars or health epidemics.

We may be impacted by natural disasters, wars, health epidemics, weather conditions, power outages or other events outside of our control. For example, our current corporate headquarters, the Fremont Factory and Gigafactory Nevada are located in seismically active regions in Northern California and Nevada, and our Gigafactory Shanghai is located in a flood-prone area. Moreover, the area in which our Gigafactory Texas is being built experienced severe winter storms in the first quarter of 2021 that had a widespread impact on utilities and transportation. If major disasters such as earthquakes, floods or other events occur, or our information system or communication breaks down or operates improperly, our headquarters and production facilities may be seriously damaged, or we may have to stop or delay production and shipment of our products. In addition, the global COVID-19 pandemic has impacted economic markets, manufacturing operations, supply chains, employment and consumer behavior in nearly every geographic region and industry across the world, and we have been, and may in the future be, adversely affected as a result. We may incur expenses or delays relating to such events outside of our control, which could have a material adverse impact on our business, operating results and financial condition.

Risks Related to Government Laws and Regulations

Demand for our products and services may be impacted by the status of government and economic incentives supporting the development and adoption of such products.

Government and economic incentives that support the development and adoption of electric vehicles in the U.S. and abroad, including certain tax exemptions, tax credits and rebates, may be reduced, eliminated or exhausted from time to time. For example, previously available incentives favoring electric vehicles in areas including Ontario, Canada, Germany, Hong Kong, Denmark and California have expired or were cancelled or temporarily unavailable, and in some cases were not eventually replaced or reinstituted, which may have negatively impacted sales. Certain government and economic incentives may also be implemented that provide disproportionate benefits to manufacturers who assemble domestically, have local suppliers or have other characteristics that may not apply to Tesla. Any similar developments could have some negative impact on demand for our vehicles, and we and our customers may have to adjust to them.

In addition, certain governmental rebates, tax credits and other financial incentives that are currently available with respect to our solar and energy storage product businesses allow us to lower our costs and encourage customers to buy our products and investors to invest in our solar financing funds. However, these incentives may expire when the allocated funding is exhausted, reduced or terminated as renewable energy adoption rates increase, sometimes without warning. For example, the U.S. federal government currently offers certain tax credits for the installation of solar power facilities and energy storage systems that are charged from a co-sited solar power facility; however, these tax credits are currently scheduled to decline and/or expire in 2023 and beyond. Likewise, in jurisdictions where net metering is currently available, our customers receive bill credits from utilities for energy that their solar energy systems generate and export to the grid in excess of the electric load they use. The benefit available under net metering has been or has been proposed to be reduced, altered or eliminated in several jurisdictions, and has also been contested and may continue to be contested before the Federal Energy Regulatory Commission. Any reductions or terminations of such incentives may harm our business, prospects, financial condition and operating results by making our products less competitive for customers, increasing our cost of capital and adversely impacting our ability to attract investment partners and to form new financing funds for our solar and energy storage assets.

Finally, we and our fund investors claim these U.S. federal tax credits and certain state incentives in amounts based on independently appraised fair market values of our solar and energy storage systems. Some governmental authorities have audited such values and in certain cases have determined that these values should be lower, and they may do so again in the future. Such determinations may result in adverse tax consequences and/or our obligation to make indemnification or other payments to our funds or fund investors.

We are subject to evolving laws and regulations that could impose substantial costs, legal prohibitions or unfavorable changes upon our operations or products.

As we grow our manufacturing operations in additional regions, we are or will be subject to complex environmental, manufacturing, health and safety laws and regulations at numerous jurisdictional levels in the U.S., China, Germany and other locations abroad, including laws relating to the use, handling, storage, recycling, disposal and/or human exposure to hazardous materials, product material inputs and post-consumer products and with respect to constructing, expanding and maintaining our facilities. The costs of compliance, including remediations of any discovered issues and any changes to our operations mandated by new or amended laws, may be significant, and any failures to comply could result in significant expenses, delays or fines. In addition,

as we have increased our employee headcount and operations, we are and may continue to be subject to increased scrutiny, including litigation and government investigations relating to allegations such as discrimination and workplace misconduct, that we will need to defend against. If we are unable to successfully defend ourselves in such litigation or government investigations, it may harm our brand, ability to attract and retain qualified employees, business and financial condition. We are also subject to laws and regulations applicable to the supply, manufacture, import, sale and service of our products both domestically and abroad. For example, in countries outside of the U.S., we are required to meet standards relating to vehicle safety, fuel economy and emissions that are often materially different from requirements in the U.S., thus resulting in additional investment into the vehicles and systems to ensure regulatory compliance in those countries. This process may include official review and certification of our vehicles by foreign regulatory agencies prior to market entry, as well as compliance with foreign reporting and recall management systems requirements.

In particular, we offer in our vehicles Autopilot and FSD Capability features that today assist drivers with certain tedious and potentially dangerous aspects of road travel, but which currently require drivers to remain fully engaged in the driving operation. We are continuing to develop our FSD Capability technology with the goal of achieving fully self-driving capability in the future. There are a variety of international, federal and state regulations that may apply to the sale, registration and operation of fully self-driving vehicles, which include many existing vehicle standards that were not originally intended to apply to vehicles that may not have a driver. Such regulations continue to rapidly change, which increases the likelihood of a patchwork of complex or conflicting regulations, or may delay products or restrict self-driving features and availability, which could adversely affect our business.

Finally, as a manufacturer, installer and service provider with respect to solar generation and energy storage systems, a supplier of electricity generated and stored by certain of the solar energy and energy storage systems we install for customers, and a provider of grid services through virtual power plant models, we are impacted by federal, state and local regulations and policies concerning electricity pricing, the interconnection of electricity generation and storage equipment with the electrical grid and the sale of electricity generated by third party-owned systems. If regulations and policies that adversely impact the interconnection or use of our solar and energy storage systems are introduced, they could deter potential customers from purchasing our solar and energy storage products and services, threaten the economics of our existing contracts and cause us to cease solar and energy storage systems sales and services in the relevant jurisdictions, which may harm our business, financial condition and operating results.

Any failure by us to comply with a variety of U.S. and international privacy and consumer protection laws may harm us.

Any failure by us or our vendor or other business partners to comply with our public privacy notice or with federal, state or international privacy, data protection or security laws or regulations relating to the processing, collection, use, retention, security and transfer of personally identifiable information could result in regulatory or litigation-related actions against us, legal liability, fines, damages, ongoing audit requirements and other significant costs. Substantial expenses and operational changes may be required in connection with maintaining compliance with such laws, and even an unsuccessful challenge by customers or regulatory authorities of our activities could result in adverse publicity and could require a costly response from and defense by us. In addition, certain emerging privacy laws are still subject to a high degree of uncertainty as to their interpretation, application and impact, and may require extensive system and operational changes, be difficult to implement, increase our operating costs, adversely impact the cost or attractiveness of the products or services we offer, or result in adverse publicity and harm our reputation. For example, the General Data Protection Regulation applies to the processing of personal information collected from individuals located in the European Union, and has created new compliance obligations and significantly increased fines for noncompliance. Similarly, the California Consumer Privacy Act imposes certain legal obligations on our use and processing of personal information related to California residents. Finally, new privacy and cybersecurity laws are coming into effect in China. Notwithstanding our efforts to protect the security and integrity of our customers' personal information, we may be required to expend significant resources to comply with data breach requirements if, for example, third parties improperly obtain and use the personal information of our customers or we otherwise experience a data loss with respect to customers' personal information. A major breach of our network security and systems may result in fines, penalties and damages and harm our brand, prospects and operating results.

We could be subject to liability, penalties and other restrictive sanctions and adverse consequences arising out of certain governmental investigations and proceedings.

We are cooperating with certain government investigations as discussed in Note 12, *Commitments and Contingencies*, to the consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q. To our knowledge, no government agency in any such ongoing investigation has concluded that any wrongdoing occurred. However, we cannot predict the outcome or impact of any such ongoing matters, and there exists the possibility that we could be subject to liability, penalties and other restrictive sanctions and adverse consequences if the SEC, the U.S. Department of Justice or any other government agency were to pursue legal action in the future. Moreover, we expect to incur costs in responding to related requests for information and subpoenas, and if instituted, in defending against any governmental proceedings.

For example, on October 16, 2018, the U.S. District Court for the Southern District of New York entered a final judgment approving the terms of a settlement filed with the Court on September 29, 2018, in connection with the actions taken by the SEC relating to Mr. Musk's statement on August 7, 2018 that he was considering taking Tesla private. Pursuant to the settlement, we, among other things, paid a civil penalty of \$20 million, appointed an independent director as the chair of our board of directors,

appointed two additional independent directors to our board of directors and made further enhancements to our disclosure controls and other corporate governance-related matters. On April 26, 2019, this settlement was amended to clarify certain of the previously-agreed disclosure procedures, which was subsequently approved by the Court. All other terms of the prior settlement were reaffirmed without modification. Although we intend to continue to comply with the terms and requirements of the settlement, if there is a lack of compliance or an alleged lack of compliance, additional enforcement actions or other legal proceedings may be instituted against us.

We may face regulatory challenges to or limitations on our ability to sell vehicles directly.

While we intend to continue to leverage our most effective sales strategies, including sales through our website, we may not be able to sell our vehicles through our own stores in certain states in the U.S. with laws that may be interpreted to impose limitations on this direct-to-consumer sales model. It has also been asserted that the laws in some states limit our ability to obtain dealer licenses from state motor vehicle regulators, and such assertions persist. In certain locations, decisions by regulators permitting us to sell vehicles have been and may be challenged by dealer associations and others as to whether such decisions comply with applicable state motor vehicle industry laws. We have prevailed in many of these lawsuits and such results have reinforced our continuing belief that state laws were not intended to apply to a manufacturer that does not have franchise dealers. In some states, there have also been regulatory and legislative efforts by dealer associations to propose laws that, if enacted, would prevent us from obtaining dealer licenses in their states given our current sales model. A few states have passed legislation that clarifies our ability to operate, but at the same time limits the number of dealer licenses we can obtain or stores that we can operate. The application of state laws applicable to our operations continues to be difficult to predict.

Internationally, there may be laws in jurisdictions we have not yet entered or laws we are unaware of in jurisdictions we have entered that may restrict our sales or other business practices. Even for those jurisdictions we have analyzed, the laws in this area can be complex, difficult to interpret and may change over time. Continued regulatory limitations and other obstacles interfering with our ability to sell vehicles directly to consumers may harm our financial condition and operating results.

Risks Related to the Ownership of Our Common Stock

The trading price of our common stock is likely to continue to be volatile.

The trading price of our common stock has been highly volatile and could continue to be subject to wide fluctuations in response to various factors, some of which are beyond our control. Our common stock has experienced over the last 52 weeks an intra-day trading high of \$910.00 per share and a low of \$379.11 per share. The stock market in general, and the market for technology companies in particular, has experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of those companies. In particular, a large proportion of our common stock has been historically and may in the future be traded by short sellers which may put pressure on the supply and demand for our common stock, further influencing volatility in its market price. Public perception and other factors outside of our control may additionally impact the stock price of companies like us that garner a disproportionate degree of public attention, regardless of actual operating performance. In addition, in the past, following periods of volatility in the overall market or the market price of our shares, securities class action litigation has been filed against us. While we defend such actions vigorously, any judgment against us or any future stockholder litigation could result in substantial costs and a diversion of our management's attention and resources.

Our financial results may vary significantly from period to period due to fluctuations in our operating costs and other factors.

We expect our period-to-period financial results to vary based on our operating costs, which we anticipate will fluctuate as the pace at which we continue to design, develop and manufacture new products and increase production capacity by expanding our current manufacturing facilities and adding future facilities, may not be consistent or linear between periods. Additionally, our revenues from period to period may fluctuate as we introduce existing products to new markets for the first time and as we develop and introduce new products. As a result of these factors, we believe that quarter-to-quarter comparisons of our financial results, especially in the short term, are not necessarily meaningful and that these comparisons cannot be relied upon as indicators of future performance. Moreover, our financial results may not meet expectations of equity research analysts, ratings agencies or investors, who may be focused only on short-term quarterly financial results. If any of this occurs, the trading price of our stock could fall substantially, either suddenly or over time.

We may fail to meet our publicly announced guidance or other expectations about our business, which could cause our stock price to decline.

We may provide from time to time guidance regarding our expected financial and business performance. Correctly identifying key factors affecting business conditions and predicting future events is inherently an uncertain process, and our guidance may not ultimately be accurate and has in the past been inaccurate in certain respects, such as the timing of new product manufacturing ramps. Our guidance is based on certain assumptions such as those relating to anticipated production and sales volumes (which generally are not linear throughout a given period), average sales prices, supplier and commodity costs and planned cost reductions. If our guidance

varies from actual results due to our assumptions not being met or the impact on our financial performance that could occur as a result of various risks and uncertainties, the market value of our common stock could decline significantly.

Transactions relating to our convertible senior notes may dilute the ownership interest of existing stockholders, or may otherwise depress the price of our common stock.

The conversion of some or all of the convertible senior notes issued by us or our subsidiaries would dilute the ownership interests of existing stockholders to the extent we deliver shares upon conversion of any of such notes by their holders, and we may be required to deliver a significant number of shares. Any sales in the public market of the common stock issuable upon such conversion could adversely affect their prevailing market prices. In addition, the existence of the convertible senior notes may encourage short selling by market participants because the conversion of such notes could be used to satisfy short positions, or the anticipated conversion of such notes into shares of our common stock could depress the price of our common stock.

Moreover, in connection with certain of the convertible senior notes, we entered into convertible note hedge transactions, which are expected to reduce the potential dilution and/or offset potential cash payments we are required to make in excess of the principal amount upon conversion of the applicable notes. We also entered into warrant transactions with the hedge counterparties, which could separately have a dilutive effect on our common stock to the extent that the market price per share of our common stock exceeds the applicable strike price of the warrants on the applicable expiration dates. In addition, the hedge counterparties or their affiliates may enter into various transactions with respect to their hedge positions, which could also affect the market price of our common stock or the convertible senior notes.

If Elon Musk were forced to sell shares of our common stock that he has pledged to secure certain personal loan obligations, such sales could cause our stock price to decline.

Certain banking institutions have made extensions of credit to Elon Musk, our Chief Executive Officer, a portion of which was used to purchase shares of common stock in certain of our public offerings and private placements at the same prices offered to third-party participants in such offerings and placements. We are not a party to these loans, which are partially secured by pledges of a portion of the Tesla common stock currently owned by Mr. Musk. If the price of our common stock were to decline substantially, Mr. Musk may be forced by one or more of the banking institutions to sell shares of Tesla common stock to satisfy his loan obligations if he could not do so through other means. Any such sales could cause the price of our common stock to decline further.

Anti-takeover provisions contained in our governing documents, applicable laws and our convertible senior notes could impair a takeover attempt.

Our certificate of incorporation and bylaws afford certain rights and powers to our board of directors that may facilitate the delay or prevention of an acquisition that it deems undesirable. We are also subject to Section 203 of the Delaware General Corporation Law and other provisions of Delaware law that limit the ability of stockholders in certain situations to effect certain business combinations. In addition, the terms of our convertible senior notes may require us to repurchase such notes in the event of a fundamental change, including a takeover of our company. Any of the foregoing provisions and terms that has the effect of delaying or deterring a change in control could limit the opportunity for our stockholders to receive a premium for their shares of our common stock, and could also affect the price that some investors are willing to pay for our common stock.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

In connection with the offering of 2.00% Convertible Senior Notes due 2024 in May 2019, we sold warrants to each of Société Générale, Wells Fargo Bank, National Association, Goldman, Sachs & Co. LLC and Credit Suisse Capital LLC (the “2019 Warrantholders”). On July 29, 2021, we agreed with the 2019 Warrantholders to partially terminate such warrants, and in connection with such partial termination, we issued an aggregate of 9,524,341 shares of our common stock to the 2019 Warrantholders. Such shares were issued pursuant to an exemption from registration provided by Rule 3(a)(9) of the Securities Act of 1933.

In connection with the offering of 1.25% Convertible Senior Notes due 2021 in March and April 2014, we sold warrants to each of Goldman, Sachs & Co., Morgan Stanley & Co. LLC, J.P. Morgan Securities LLC and Deutsche Bank Securities Inc. (the “2014 Warrantholders”). Between July 1, 2021 and July 29, 2021, we issued an aggregate of 7,954,147 shares of our common stock to the 2014 Warrantholders pursuant to their exercise of such warrants, which were net of the applicable exercise prices. Such shares were issued pursuant to an exemption from registration provided by Rule 3(a)(9) of the Securities Act of 1933.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

ITEM 5. OTHER INFORMATION

None.

ITEM 6. EXHIBITS

See Index to Exhibits at the end of this Quarterly Report on Form 10-Q for the information required by this Item.

INDEX TO EXHIBITS

Exhibit Number	Exhibit Description	Form	Incorporated by Reference		Filing Date	Filed Herewith
			File No.	Exhibit		
10.1	Amendment No. 12 to Amended and Restated Agreement for Research & Development Alliance on Triex Module Technology.	—	—	—	—	X
31.1	Rule 13a-14(a) / 15(d)-14(a) Certification of Principal Executive Officer	—	—	—	—	X
31.2	Rule 13a-14(a) / 15(d)-14(a) Certification of Principal Financial Officer	—	—	—	—	X
32.1*	Section 1350 Certifications	—	—	—	—	
101.INS	Inline XBRL Instance Document	—	—	—	—	X
101.SCH	Inline XBRL Taxonomy Extension Schema Document	—	—	—	—	X
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.	—	—	—	—	X
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document	—	—	—	—	X
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document	—	—	—	—	X
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document	—	—	—	—	X
104	Cover Page Interactive Data File (formatted as inline XBRL with applicable taxonomy extension information contained in Exhibits 101)					

* Furnished herewith

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Tesla, Inc.

Date: October 25, 2021

/s/ Zachary J. Kirkhorn
Zachary J. Kirkhorn
Chief Financial Officer
(Principal Financial Officer and
Duly Authorized Officer)

