

FY2018 ended March 31, 2019 Financial Results

Toshiba Memory Holdings Corporation May 13, 2019 (Corrected May 14, 2021)

Disclaimer

On April 1, 2017, Toshiba Corporation spun off its memory business into the former Toshiba Memory Corporation ("Former TMC"). On June 1, 2018, Toshiba Corporation sold all of the shares of Former TMC to K.K. Pangea, a special purpose acquisition company formed by a consortium led by Bain Capital Private Equity, LP, and as a result, Former TMC became a wholly-owned subsidiary of K.K. Pangea. On August 1, 2018, K.K. Pangea merged with Former TMC, with K.K. Pangea as the legally surviving entity. On the same date, K.K. Pangea was renamed Toshiba Memory Corporation ("TMC"). On March 1, 2019, Toshiba Memory Holdings Corporation ("TMCHD" or "we") was established as the holding company for TMC through a sole-share transfer, whereby TMC's then-existing shareholders became the shareholders of TMCHD and TMC became a wholly-owned subsidiary of TMCHD.

This presentation includes forward-looking statements that represent certain opinions, expectations, beliefs, intentions or estimates regarding the future of TMCHD and its consolidated subsidiaries. You can identify forward-looking statements by terms such as "may," "will," "should," "expects," "plans," "anticipates," "could," "intends," "aims," "seeks," "targets," "projects," "anticipates," "contemplates," "believes," "estimates," "predicts," "potential" or "continue" or the negative of these terms or other similar expressions. Forward-looking statements are based largely on our current expectations and projections about future events and trends that we believe may affect our industry, business strategy, short-term and long-term business operations and objectives, financial condition and results of operations. These forward-looking statements involve known and unknown risks, uncertainties, changes in circumstances that are difficult to predict and other factors that may cause our actual results, performance or achievements to be materially different from any future result, performance or achievement expressed or implied by the forward-looking statement. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this presentation may not occur and actual results could differ materially and adversely from those anticipated or implied.

The forward-looking statements included in this presentation are made only as of the date hereof. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. We undertake no obligation to update any forward-looking statement for any reason after the date of this presentation to conform these statements to actual results or to changes in our expectations, except as may be required by law.

This presentation includes information and statements regarding the flash memory industry obtained from industry publications and surveys, publicly available sources and from thirdparty sources considered to be reliable. Whilst this presentation is provided in good faith, it does not purport to be comprehensive and has not been independently verified.

This presentation has been prepared to provide information on our consolidated financial results and does not constitute or form part of an offer or invitation to sell or a solicitation of an offer to buy or subscribe for or otherwise acquire any securities in any jurisdiction or an inducement to engage in investment activity nor shall it form the basis of or be relied on in connection with any contract thereof.

NVMe are trademarks of NVM Express, Inc. All company names, product names and service names may be trademarks of their respective companies.

Financial Results Overview⁽¹⁾

[billion yen]	FY18 Q3 (TMC)	FY18 Q4		FY17	FY18			
		(TMCHD ⁽²⁾)	QoQ	(Former TMC)	①18/4-18/5 (Former TMC) ⁽³⁾	②18/6-19/3 (TMCHD) ⁽²⁾⁽⁶⁾	①+② (Sum) ⁽⁷⁾	
Sales	310.6	247.0	(63.6)	1,229.4	189.4	1,074.5	1,263.9	
Operating Income	54.0	(28.4)	(82.4)	456.8	70.4	45.9	116.3	
Margin	17%	(11)%	(29)pt	37%	37%	4%	9%	
Net Income	29.9	(23.3)	(53.2)	718.6	48.9	7.6	56.5	
Margin	10%	(9)%	(19)pt	58%	26%	1%	4%	
Depreciation and Amortization	97.1	100.8	+3.7	179.1	36.1	319.0	355.1	
PPA Impact ⁽⁴⁾	(27.2)	(26.1)	+1.1	0	0	(227.2)	(227.2)	
Income Tax ⁽⁵⁾	11.3	(16.7)	(28.0)	(259.0)	20.7	(3.8)	16.9	

 Based on the audited consolidated financial statements of Former TMC for FY17, FY18 Q3 and FY18 Q4, and the unaudited consolidated financial reports of Former TMC and TMCHD for FY18. All figures are prepared under IFRS.

2. TMCHD has assumed the financial reports of TMC, which became TMCHD's wholly-owned subsidiary through 6. a sole-share transfer on March 1, 2019.

3. Based on the financial reports of Former TMC as a wholly-owned subsidiary of Toshiba Corporation, before the acquisition by K.K. Pangea.

Amount of financial impact of PPA on operating income, which was caused by the acquisition of Former TMC by K.K. Pangea (refer to p5 for details).
 7.

Income tax for FY17: current income taxes 75.6 billion yen + deferred income taxes (334.6) billion yen including the aggregate amount of four-year tax effect of tax deductible goodwill resulting from a non-taxqualified spin off of the memory business in April 2017 (310.4 billion yen).

Based on the unaudited consolidated financial reports of TMCHD from April 2018 to March 2019, which includes the income statement impact of K.K. Pangea's financing activities during the first two months of the period. The period June 2018 to March 2019 is referred to in the table above because the results for April and May 2018 do not include the results of Former TMC, which operated the substantive business during those two months.

The figures are presented on a simple, combined basis, and adjustments that are necessary to enable a strict comparison against the previous year's figures have not been made.

Highlights (1/3)

Recent Sales Trends

	FY18 Q3	FY18 Q4
Bit growth	Lower teens %	Mid single digit %
(QoQ)	increase	range decline
ASP	Mid 20% range	Mid 20% range
(QoQ)	decline	decline

Weak datacenter- and smartphone-related demand due to seasonality
GB shipments decreased due to reduction of 15 nm NAND production
Ratio of BiCS FLASH[™] production surpassed 90% in March 2019 (bit basis)
ASP continued to decline since late 2018

Establishment of Toshiba Memory Holdings Corporation

 Under our new structure, TMCHD was established on March 1, 2019, aiming to contribute to the value of TMC and its respective subsidiary companies, including by strengthening governance through enhanced management and oversight of group companies, including TMC, and by assuming responsibility for group strategy including M&A, resource allocation, risk management, fund raising, etc.

Products and Technology Development

- Developed 96-layer BiCS FLASH[™] with QLC Technology (July 20, 2018)
- Started shipment of SSD "XG6 Series" utilizing 96-layer BiCS FLASH™ (July 24, 2018)
- Started shipment of NVMe[™] SSD "BG4 Series" which places both 96-layer BiCS FLASH[™] and an all-new controller into one package (January 9, 2019)
- Developed new bridge chip utilizing PAM4 for high-speed and high-capacity SSD (February 21, 2019)
- Started shipment of embedded flash memory products for automotive applications utilizing BiCS FLASH™ (March 26, 2019)

PPA Impact Overview

PPA Impact

Impact of PPA on Operating Income/Net Income

		_		=		-	
	(billion yen)	(billion yen)	Q1 (Includes only June)	Q2	Q3	Q4	FY18
Preliminary balance of goodwill before reflecting PPA	784.1	①Cost impact from increased inventory	(50.0)	(88.8)	_	-	(138.8)
(Effects of PPA)		②Depreciation/amortization					
①Inventories	-) 138.8	cost impact from increased fixed assets, etc.	(8.3)	(26.8)	(27.2)	(26.1)	(88.4)
②Fixed assets	-) 429.5	PPA Impact (Operating Income)	(58.3)	(115.6)	(27.2)	(26.1)	(227.2)
③Deferred tax liabilities	+) 172.0	Tax effect	+17.7	+35.0	+8.2	+7.9	+68.8
Balance of goodwill after reflecting PPA	387.8	PPA Impact (Net Income)	(40.6)	(80.6)	(19.0)	(18.2)	(158.4)

- We completed the purchase price allocation (PPA) in FY18 Q3 based on the fair value as of the date Former TMC was acquired (June 1, 2018), which resulted in fair value adjustments that retroactively increased inventory and fixed assets by 138.8 billion yen and 429.5 billion yen, respectively, as of June 1, 2018. ^(*)
- PPA impact on FY18 results of operations is described in the upper right chart. We expect to record additional fixed asset depreciation/amortization costs, etc., due to the effects of PPA of approximately 100 billion yen/year from FY19 to FY21, which together will cover more than 95% of the total depreciation/amortization costs, etc., in relation to PPA.

(*) There are some differences from the related information released by Toshiba Corporation due to differences in accounting standards.

Industry/Market Trends and Outlook

- On the supply side, memory manufacturers reduced flash memory production through lower capital expenditures and lower fab utilization. On the demand side, general market expectations are for inventory levels to begin normalizing from the second half of CY19 driven by an accelerated replacement of HDDs with SSDs and a continued increase in the amount of storage per smartphone due to the decline of ASP and the recovery of datacenter-related demand.
- We significantly reduced our capital expenditures (order based) in FY18 compared to the previous year in light of trends in the flash memory market. We made investments related to the shift to 96-layer BiCS FLASH[™] at our Fab6 in Yokkaichi, Mie Prefecture and for the construction of our new fab in Kitakami, Iwate Prefecture. We view these investments as necessary for the enhancement of cost efficiencies and business competitiveness

END