KULR-Buy-\$7 PT

Action Summary - 23 May 2023

Analyst Theodore R. O'Neill - 1Q23 shows solid start despite miss to estimates - Reiterate Buy and \$7 PT

- Minor miss to estimates. It's too early in the game for analysts to forecast a steady, linear increase in revenue, but that is what we did in the quarter. KULR reported 1Q23 revenue and an EPS loss of \$1.8MM and \$0.06, respectively. Consensus 1Q23 revenue and EPS loss expectations were \$2.2M and \$0.04, respectively. The \$0.02 unfavorable EPS variance was due to lower sales and higher operating and non-operating expenses.
- Early on revenue is coming in discrete packets. It posted record revenue in the prior quarter and we all
 clearly expected another record, but it will happen. It has lined up commercial business with several
 customers, who must execute on their own plans, and it now has several government contracts that are likely
 to produce follow on orders. KULR products protect and solve complex, real-world issues of heat, vibration,
 and safety.
- **Lowering 2023 estimates**. We are lowering our 2023 revenue and EPS estimates to \$9.3MM and a loss of \$0.21, respectively from \$16.5MM and a loss of \$0.14, respectively, primarily due to higher operating expenses to support this growth and revenue at this time is somewhat lumpy.
- Although the shares trade at near peer averages, we believe it deserves a premium due to its high gross profit
 margins. Shares are trading below our discounted earnings-based price target.

5/22 Closing price: \$0.82	Market cap: \$68 million	2024 P/E: NMF	2024 EV / Sales: 2.3
Diluted Shares outstanding: 118 million	Insider ownership: 35%	3-month avg. trading volume: ~600,000	Dividend/Yield: NA/NA

GAAP estimates (EPS excluding deemed dividend in dollars – Revenue in USD thousands)

	,		
Period	EPS	Revenue	GP Margin
1Q21A	\$(0.02)	\$418	34%
2Q21A	\$(0.03)	\$628	30%
3Q21A	\$(0.03)	\$601	74%
4Q21A	<u>\$(0.04)</u>	<u>\$766</u>	<u>70%</u>
FY21A	<u>\$(0.12)</u>	<u>\$2,413</u>	<u>54%</u>
1Q22A	\$(0.04)	\$200	39%
2Q22A	\$(0.05)	\$588	28%
3Q22A	\$(0.05)	\$1,393	33%
4Q22A	<u>\$(0.04)</u>	<u>\$1,813</u>	<u>92%</u>
FY22A	<u>\$(0.18)</u>	<u>\$3,995</u>	<u>59%</u>
1Q23A	\$(0.06)	\$1,760	37%
2Q23E	\$(0.05)	\$2,000	50%
3Q23E	\$(0.05)	\$2,500	50%
4Q23E	<u>\$(0.04)</u>	<u>\$3,000</u>	<u>49%</u>
FY23E	<u>\$(0.21)</u>	<u>\$9,260</u>	<u>47%</u>

Note: Numbers may not add due to rounding. See our full model at the back of this report.

Cash balance (in USD thousands)

•	2020A	•	\$8,880
•	2021A	•	\$14,863
•	2022A	•	\$10,334
•	2023E	•	\$982

Debt (in USD thousands)

•	2020A	•	\$142
•	2021A	•	\$0
•	2022A	•	\$0
•	2023E	•	\$0

Adj. EBITDA (in USD millions)

		<u> </u>	0.10,
•	2020A	•	(\$2.4)
•	2021A	•	(\$11.6)
•	2022A	•	(\$17.8)
•	2023E	•	(\$24.7)

Risks/Valuation

- Risks include Highly competitive business; changes in customer demand, commercialization of technology
- Our \$7 target is derived using a discounted future earnings model.

Company description: KULR Technology Group, Inc. develops, manufactures and licenses next-generation carbon fiber thermal management technologies for batteries and electronic systems. Backed by a strong intellectual property portfolio, KULR enables leading aerospace, electronics, and electric vehicle manufacturers to make their products cooler, lighter and safer for the consumer.

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Figure 1 – KULR Technology Group, Inc. – One-Year Trading snapshot



Source: FactSet

Quarterly Results

As shown in Figure 2 (below), KULR reported 1Q23 revenue and an EPS loss of \$1.8MM and \$0.06, respectively. Consensus 1Q23 revenue and EPS loss expectations were \$2.2M and \$0.04, respectively. The \$0.02 unfavorable EPS variance was due to lower sales and higher operating and non-operating expenses.

Figure 2 – KULR Technology Group, Inc. – Quarterly Variance Analysis (\$000)

	2023	2023	
			Better/(worse)
	<u>Q1E</u>	<u>Q1A</u>	than forecast
Income Statement			
Total Revenue	\$2,500	\$1,760	(\$740)
Total cost of revenue	1,250	1,116	<u>134</u>
Total Gross Profit	1,250	643	(607)
Operating expenses:			
R&D	1,300	1,388	(88)
General and administrative	4,500	<u>5,516</u>	(<u>1,016</u>)
Total Expenses	5,800	6,904	(1,104)
Earnings (loss) from Operations	(4,550)	(6,261)	(\$1,711)
Total Other income/(expense)	<u>0</u>	(342)	(342)
Earnings before taxes	(4,550)	(6,603)	(2,053)
Tax expense/(benefit)	<u>0</u>	<u>0</u>	<u>0</u>
Net income	(\$4,550)	(\$6,603)	(\$2.053)
Deemed dividend for Series C			
Net income attribuable to sharehoders			
EPS	\$ (0.04)	\$ (0.06)	(\$0.02)
Diluted common shares	107,000	112,877	(5,877)

Source: Litchfield Hills Research LLC

Valuation Methodology

We believe KULR is undervalued, and we support that belief with two valuation techniques, one absolute and one relative. The following valuation techniques are being used:

- 1) The discounted value of all future earnings was used for our price target (see Figure 3)
- 2) Valuation relative to peers (see Figure 4)

Discounted Future Earnings - Basis for Price Target

Our 12-month price target of \$7 is based on a discounted earnings model. For valuation purposes, we sum up all future earnings discounted at 8%. We are making two main assumptions:

- Near-term rapid growth for earnings which steps down to GDP after 5 years
- Company reaches breakeven in early 2024

Our valuation model is shown in Figure 3 below. Note, this model understates future new products and growth through acquisitions and probably understates the tax benefits, but offsetting that, the earnings never have a down year. The implied share price is \$6.62 which we round up to \$7.

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Figure 3 - KULR Technology Group, Inc -. Discounted Future Earnings

Disco	unted Earn	ings	\$ 6.62
	Year 1 is	Forecast	Discounted
	2023	EPS	EPS
	1	(0.23)	(\$0.23)
	2	0.00	\$0.00
	3	0.20	\$0.16
	4	0.30	\$0.22
	5	0.45	\$0.31
	Terminal		
	Value		\$6.16

Source: Litchfield Hills Research LLC

Valuation Relative to Peers

In Figure 4 we look at a summary of metrics for KULR peers. If we compare KULR to a simple average of its peers, the shares sell, on average, just a little under par with its peers. We believe KULR shares should command a premium to its peers because it has high gross profit margins and companies with high gross profit margins tend to trade for higher sales multiples. A high multiple for KULR isn't extraordinary. Details on each of the peers can be found in Figure 5.

Figure 4 – KULR Technology Group, Inc. – Valuation Relative to Peers

KULR Premium/(Discount)	2.33 (1%)	2.75 (9%)
Average	2.34	3.00
	2024 EV / Sales	2024 Sales Multiple

Source: Litchfield Hills Research LLC and Refinitiv Eikon (Formerly Thomson Reuters Eikon)

Guidance and Financial Forecasts

The company is not providing guidance. We anticipate a capital raise sometime in late 2023 to support working capital and growth. The company has been pulling together solid business relationships with companies that will use KULR products and those companies are executing their production plans.



Figure 5 – KULR Technology Group, Inc. – Comp Table

					2024 Co Multi	
FactSet			Market			Market Cap /
Ticker	Company Name	Closing Price	Cap \$MM	EV \$MM	EV /Sales	Sales
TSLA-US	Tesla Inc	\$180.14	570,954	608,593	4.99	4.67
RIVN-US	Rivian Automotive, Inc. Class A	\$13.47	12,547	4,302	0.63	1.73
QS-US	QuantumScape Corporation	\$6.04	2,257	1,782		
ENVX-US	Enovix Corporation (US Listing)	\$11.67	1,846	1,530		
FSR-US	Fisker Inc	\$6.17	1,221	2,023	0.58	0.61
LICY-US	Li-Cycle Holdings Corp.	\$4.54	802	727	4.19	4.65
MVST-US	Microvast Holdings, Inc.	\$2.10	650	544		
ABML-US	American Battery Technology Company	\$0.75	508	474		
BLNK-US	Blink Charging Co	\$7.05	431	301	1.70	2.96
NVX-AU	NOVONIX Ltd (AU Listing)	\$0.69	335	293	1.96	2.25
RIDE-US	Lordstown Motors Corp	\$0.27	66	(80)		2.67
SOLO-US	Electrameccanica Vehicles Corp	\$0.50	60	(33)		4.49
IPWR-US	Ideal Power Inc.	\$9.49	56	44		
FUV-US	Arcimoto, Inc.	\$1.55	11	18		
	AVERAGE				<u>2.34</u>	<u>3.00</u>
KULR-US	KULR Technology Group Inc	\$0.58	68	58	2.33	2.75
	KULR-US	-1%	-9%			

Source: Litchfield Hills Research LLC and FactSet



Figure 6 – KULR Technology Group, Inc. – Income Statement (\$000)

December year-end	2020A	2021A	2022A			2022A		2023E			2023E	
2000	Year	Year	Q1A	Q2A	Q3A	Q4A	Year	Q1A	Q2E	Q3E	Q4E	Year
Total revenue	\$624	\$2,413	\$200	\$588	\$1,393	\$1,813	\$3,995	\$1,760	\$2,000	\$2,500	\$3,000	\$9,260
Growth	-25%	287%	-52%	-6%	132%	137%	66%	778%	240%	79%	65%	132%
Cost of Goods	169	1,102	123	424	932	152	1,631	1,116	1,000	1,250	1,530	4,896
Gross Profit	455	1,311	78	164	461	1,662	2,364	643	1,000	1,250	1,470	4,363
Gross Margin	72.9%	54.3%	38.7%	27.9%	33.1%	91.6%	59.2%	36.6%	50.0%	50.0%	49.0%	47.1%
Operating Expenses												
R&D	\$290	\$1,662	\$721	\$999	\$1,070	\$1,187	\$3,978	\$1,388	\$1,400	\$1,500	\$1,600	\$5,888
% of total revenue	46%	69%	360%	170%	77%	65%	100%	79%	70%	60%	53%	64%
General and administrative	\$2,506	\$11,162	\$3,535	\$4,326	\$4,349	\$4,462	\$16,673	\$5,516	\$5,750	\$5,900	\$6,000	\$23,166
% of total revenue	402%	463%	1763%	736%	312%	246%	417%	313%	288%	236%	200%	250%
Total Operating Expenses	2,795	12,824	4,256	5,326	5,419	5,649	20,650	6,904	7,150	7,400	7,600	29,054
Operating Income	(2,340)	(11,513)	(4,179)	(5,162)	(4,958)	(3,987)	(18,286)	(6,261)	(6,150)	(6,150)	(6,130)	(24,691)
Operating Margin	-375.1%	-477.2%	-2084.1%	-878.5%	-355.9%	-219.9%	-457.8%	-355.8%	-307.5%	-246.0%	-204.3%	-266.6%
Total Other Items	(510)	(398)	42	(93)	(628)	(472)	(1,150)	(342)	0	0	0	(342
Pre-Tax Income	(2,850)	(11,911)	(4,137)	(5,255)	(5,587)	(4,459)	(19,436)	(6,603)	(6,150)	(6,150)	(6,130)	(25,033
Pre-Tax Margin	-456.8%	-493.7%	-2063.1%	-894.3%	-401.0%	-245.9%	-486.6%	-375.2%	-307.5%	-246.0%	-204.3%	-270.3%
Taxes (benefit)	0	0	0	0	0	0	0	0	0	0	0	0
Tax Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Net income	(\$2,850)	(\$11,911)	(\$4,137)	(\$5,255)	(\$5,587)	(\$4,459)	(\$19,436)	(\$6,603)	(\$6,150)	(\$6,150)	(\$6,130)	(\$25,033
Deemed dividend for Series C	(\$2)	(\$2,624)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net income attribuable to share	(\$2,852)	(\$14,535)	\$0	(\$5,255)	\$0	\$0	(\$19,436)	\$0	(\$6,150)	\$0	\$0	(\$25,033
EPS	(0.03)	(0.12)	(0.04)	(0.05)	(0.05)	(0.04)	(0.18)	(0.06)	(0.05)	(0.05)	(0.04)	(0.21)
EPS plus deemed dividend	0.00	(0.15)	0.00	(0.05)	0.00	0.00	(0.18)	0.00	(0.05)	0.00	0.00	(0.21
Diluted Shares Outstanding	82,032	97,708	102,561	104,546	105,573	110,000	105,656	112,877	118,000	118,000	138,000	121,719

Source: Company reports and Litchfield Hills Research LLC

Figure 7 – KULR Technology Group, Inc. – Balance Sheet (\$000)

December year-end	FY2023E	FY2022A	FY2021A	FY2020A	FY2019A
Balance sheet					
Current Assets					
Cash and S.T.I.	\$982	\$10,334	\$14,863	\$8,880	\$109
Accounts receivable	1,600	1,542	136	55	30
Inventories	1,800	1,962	191	55	27
Other assets	<u>1,500</u>	<u>1,898</u>	<u>570</u>	<u>150</u>	<u>43</u>
Total Current Assets	5,882	15,736	15,761	9,142	209
Net PP&E	6,000	3,193	374	58	28
Goodwill & Intangible	0	721	217	0	0
Other non-current assets	3,000	3,976	2,879	9	0
Total Assets	\$14,882	\$23,626	\$ <u>19,231</u>	\$ <u>9,208</u>	\$ <u>237</u>
Current Liabilities					
Accounts payable	\$2,000	\$1,408	\$455	\$67	\$349
Accrued exp. & other	\$3,000	\$2.370	\$1,454	\$398	\$659
Deferred revenue	\$0	\$23	\$132	\$20	\$15
Other current liabilities	\$7,000	\$5,879	\$418	\$2,463	\$0
Total current liabilities	12,000	9,681	2,458	2,947	1,034
Notes payable	0	0	0	142	0
Other Liabilities	500	3,452	408	0	0
Total Liabilities	12,500	13,132	2,866	3,090	1,034
Stockholders' Equity					
Preferred stock	0	0	0	0	0
Common stock	9	11	10	9	8
Additional paid-in-capital	70,000	53,373	39,512	17,356	7,591
Retained earnings	(67,627)	(42,594)	(23,158)	(11,246)	(8,396)
Cum. Other comp and treasury stock	<u>0</u>	(296)	0	<u>0</u>	0
Total stockholders' equity	2,382	10,494	<u>16,365</u>	<u>6,119</u>	<u>(797</u>
Total Liabilities and equity	\$14,882	\$23,626	\$19,231	\$9,208	\$237

Source: Company reports and Litchfield Hills Research LLC

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Figure 8 – KULR Technology Group, Inc. – Cash Flow (\$000)

	FY23E	FY22A	FY21A	FY20A
Net Income	(\$25,033)	(\$19,436)	(\$11,911)	(\$2,850)
Accounts receivable	(58)	(1,406)	(81)	(25)
Inventories	162	(1,771)	(136)	(28)
Other assets	398	(1,328)	(420)	(107)
PP&E	(2,807)	(2,819)	(317)	(30)
Goodwill & Intangible	721	(504)	(217)	0
Other non-current	976	(1,098)	(2,870)	(9)
Accounts payable	592	954	388	(282)
Accrued exp & other - related party	0	0	0	(10)
Accrued exp. & other	630	916	1,056	(262)
Deferred revenue	(23)	(109)	112	5
Other current liabilities	1,121	5,462	(2,046)	2,463
Notes payable	0	0	(142)	142
Other Liabilities	(2,952)	3,044	408	0
Common stock	(2)	1	1	1
Additional paid-in-capital	16,627	13,861	22,156	9,765
Cum. trans. adj. and treasury stock	296	(296)	0	3,703
Dividends	0	0	0	0
Total Cash Flow	<u>(9,351)</u>	<u>(4,530)</u>	<u>5,983</u>	<u>8,771</u>

Source: Company reports and Litchfield Hills Research LLC

Disclosures:

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Total return is defined as price appreciation plus dividend yield.



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