



KULR Technology Group, Inc.

Space Technology Transforming the World of Batteries and Electronics



OTCQB: KULR

▪ Investor Presentation

▪ June 2020

Safe Harbor

This presentation and other written or oral statements made from time to time by representatives of KULR Technology Group, Inc. and/or its wholly owned subsidiary KULR Technology Corporation contain “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements reflect the current view about future events. Statements that are not historical in nature, such as our revenue forecast, and which may be identified by the use of words like “expects,” “assumes,” “projects,” “anticipates,” “estimates,” “we believe,” “could be,” “future” or the negative of these terms and other words of similar meaning, are forward-looking statements. Such statements include, but are not limited to, statements contained in this presentation relating to our expected sales, cash flows and financial performance, business, business strategy, expansion, growth, products and services we may offer in the future and the timing of their development, sales and marketing strategy and capital outlook. Forward-looking statements are based on management’s current expectations and assumptions regarding our business, the economy and other future conditions and are subject to inherent risks, uncertainties and changes of circumstances that are difficult to predict and may cause actual results to differ materially from those contemplated or expressed. We caution you therefore against relying on any of these forward-looking statements. These risks and uncertainties include those risk factors discussed in Part I, “Item 1A. Risk Factors” of our Annual Report on Form 10-K or other filings we filed with the U.S. Securities Exchange Commission (the “Public Reports”). Any forward-looking statements are qualified in their entirety by reference to the factors discussed in the Public Reports. Should one or more of these risks or uncertainties materialize, or should the underlying assumptions prove incorrect, actual results may differ significantly from those anticipated, believed, estimated, expected, intended or planned.

Important factors that could cause actual results to differ materially from those in the forward looking statements include: a decline in general economic conditions nationally and internationally; decreased demand for our products and services; market acceptance of our products; the ability to protect our intellectual property rights; impact of any litigation or infringement actions brought against us; competition from other providers ability and products; risks in product development; inability to raise capital to fund continuing operations; changes in government regulation, the to complete customer transactions and capital raising transactions.

Factors or events that could cause our actual results to differ may emerge from time to time, and it is not possible for us to predict all of them. We cannot guarantee future results, levels of activity, performance or achievements. Except as required by applicable law, including the securities laws of the United States, we do not intend to update any of the forward-looking statements to conform these statements to actual results.

Forecasts

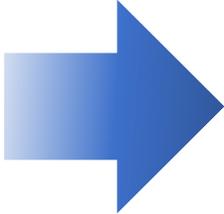
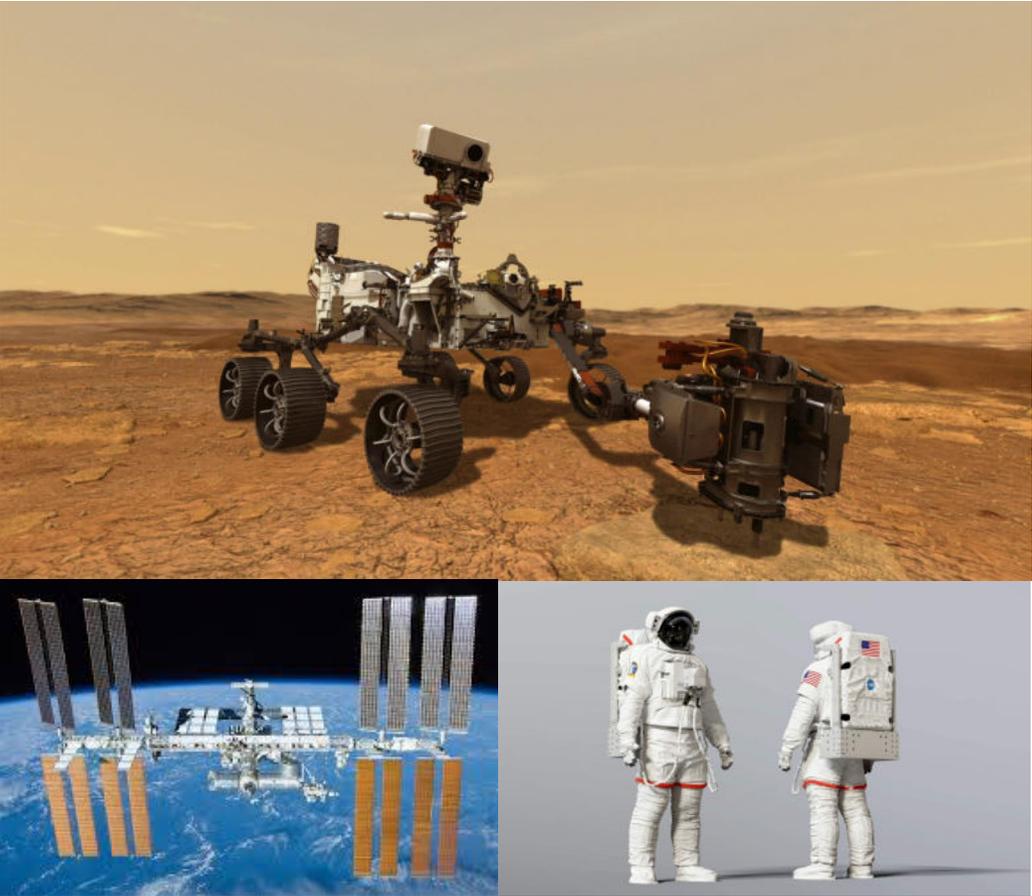
All forecasts are provided by management in this presentation and are based on information available to us at this time and management expects that internal projections and expectations may change over time. In addition, the forecasts are entirely on management’s best estimate of our future financial performance given our current contracts, current backlog of opportunities and conversations with new and existing customers about our products.

Reference Material

This overview is delivered solely as reference material with respect to our company. This document shall not constitute an offer to sell or the solicitation of an offer to buy securities in our company in any jurisdiction. The information herein is based on data obtained from sources believed to be reliable. Although we believe that the sources are reliable, we have not independently verified such data. The trademarks included herein are the property of the owners thereof and are used for reference purposes only.

This presentation contains multiple third-party market growth forecasts that may not take into account negative impacts due to circumstances related to the COVID-19 pandemic.

Space Technology



Battery and Electronics Applications



CORPORATE SUMMARY

KULR Technology Group, Inc. (OTCQB: KULR) develops, manufactures and licenses next-generation carbon fiber thermal management technologies for batteries and electronic systems. Leveraging the company's roots in developing breakthrough cooling solutions for NASA space missions and backed by a strong intellectual property portfolio, KULR enables leading aerospace, electronics and electric vehicle manufacturers to make their products cooler, lighter and safer.

PASSIVE PROPAGATION RESISTANT (PPR) LITHIUM-ION BATTERY SAFETY SOLUTIONS

- Formally launched a PPR battery design solutions for lithium-ion battery cooling and safety in 2020
- Design solution provides key features that prevents cell-to-cell thermal runaway propagation and risk of fire and explosion from exiting the battery enclosure
- KULR currently works with NASA's Marshall Space Center and NASA's Ames Research Center on designs for a crewed space mission
- KULR's HYDRA Thermal Runaway Shield (TRS) technology deployed to the International Space Station - Product development engagements with medical device, electric aircraft, and electric vehicle makers, shipping and logistics solution provider and others

SPACE QUALIFIED THERMAL INTERFACE MATERIAL (TIM) AND HEAT SINK SOLUTIONS FOR NEXT GENERATION, CONSUMER-FACING MASS MARKET APPLICATIONS

- High thermal conductivity, low thermal resistivity TIMs and heat sinks keep electronics and electrical products cooler allowing for improved system performance
- Compliant, low contact pressure TIMs allow for greater electronic and electrical product design flexibility and reliability



Michael Mo Chief Executive Officer

- Family co-founded IC software simulation company, Epic Design Technology (acquired by Synopsis for \$427M in 1997)
- Co-founded Sympeer Technology in 2005 (acquired by Amlogic in 2007)
- Managed OTT product line with majority market share of China's OTT-STB market
- Established business relationships with high profile tech leaders in the U.S. and China
- Earned a MS in Electrical Engineering from UC Santa Barbara



Simon Westbrook Chief Financial Officer

- Founded and served as an officer of Aargo, Inc, a company specializing in financial consulting services to corporations in various tech related industries
- Served as CFO of Amber Network and Sage, Inc. (Nasdaq: SAGI)
- Held senior financial positions at Creative Technology (Nasdaq: CREAM) and Atari (AMEX: ATC)
- Multiple initial and secondary public offerings and public and private M&A transactions
- Master of Economics from Trinity College, Cambridge University



Dr. Timothy Knowles Chief Technology Officer

- 30+ years of thermal management R&D experience having performed work on some of the most challenging aerospace & industrial applications
- Led team that built the X-38 battery heat sink, Mercury Messenger PCM heat sink, NICER telescope PCM heat sink, and Mars Rover battery enclosure
- Conceived and developed KULR's proprietary Carbon Fiber Cooling solutions and was awarded hundreds of contracts from numerous customers including NASA, JPL, Raytheon, and Boeing
- Earned a Ph.D. in Physics from UC San Diego



Michael Carpenter VP of Engineering

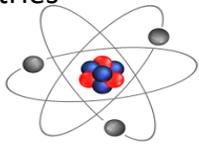
- Former Director of PCM Heat Sink Group and Safety Officer for Energy Science Laboratories Inc.
- Served as Quality Manager and Facility Security Officer in the Defense Industrial Security Program from 1988 to 1995
- Earned a B.S. in Applied Mechanics from UC San Diego



Evolution of KULR Technology Group

2013

KULR Technology Group founded with Dr. Knowles and team with over 30 years of experience. Company focuses on commercializing carbon fiber solutions for high performance electronics and battery industries



2013

2017/2018

NASA testing of KULR TRS battery heatsink is best-in-class. KULR awarded contract in upcoming Mars 2020 Rover mission. Exclusive worldwide commercial license of NREL ISC testing device



2018

2020 / Now

KULR Technology partnership with Leidos to supply NASA with Lithium-Ion Battery Storage Solutions for the International Space Station



2020



2016

KULR PCM heat sink technology inside International Space Station (ISS) NICER telescope

2018

KULR Technology partners with Lockheed Martin to provide Thermal Management Solutions



2019

Product development with world-class partners and start of business expansion with a focus on E-Mobility and Battery Safety markets



Our Proven Core Technology

KULR

- **Our proprietary, core technology is a carbon fiber material** that provides superior thermal conductivity and heat dissipation properties in an ultra-lightweight compliant material
- Our technologies have been utilized in numerous aerospace projects, including applications on the International Space Station, Mars 2020 Rover and classified government projects
- Efficacy of our technologies proven out through engagements with Tier-1 aerospace operators, including:

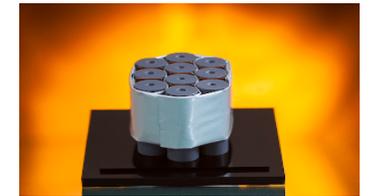


- Today, we progress towards commercializing our space-qualified electronics and battery cooling technologies across **a diverse array of mass market consumer-facing applications**

“To date, NASA has not found a design solution with as much promise for preventing Li-ion battery thermal runaway propagation, with as positive temperature margins on the adjacent cells, while also being very lightweight (as KULR’s HYDRA TRS).”

- Dr. Eric Darcy, NASA Battery Systems Lead on efficacy of KULR’s Thermal Runaway Shield (TRS) technology at Space Tech Expo in 2017

Battery Safety Products



Carbon Fiber Thermal Solutions



Innovative High-Performance Thermal Management Solutions for Today's Industries and Emerging Technologies

- KULR's passive propagation resistant technologies improves battery system reliability and safety
- KULR's high-performance thermal management products satisfies the increasing cooling demands of next-generation electronics and battery systems
- 3.3 million EV's on the road in 2019 → 27 million EV's by 2030*
- Global lithium-ion battery recycling industry worth \$1.5 billion in 2019 and projected to grow to \$18.1 billion by 2030*
- Rapid growth of 5G industry to displace current 4G cellular network technologies

Lithium battery fire incidents involving hoverboards, smartphones, and electric vehicles are a serious public safety concern for electronics and battery manufacturers. Such incidents have created a surge in demand for improved battery safety technologies and thermal management solutions.

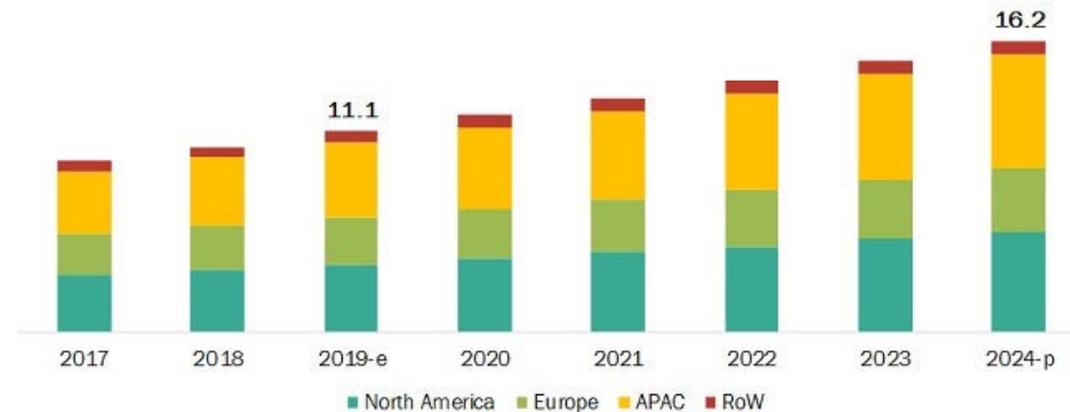


Tesla after battery fire (left), UPS flight catches fire after lithium battery cargo fire (middle), and 18650 lithium battery pack explosion (right).

Did you know?

According to data released by the Federal Aviation Administration (FAA), since 2017, lithium battery incidents involving smoke, fire, extreme heat, or explosion occurs on average, once every eight days on planes/airport (Source: www.batteryfires.com and FAA.gov)

Thermal Management Material & Device Market, By Region (USD Billion)



Source: Market and Markets Research

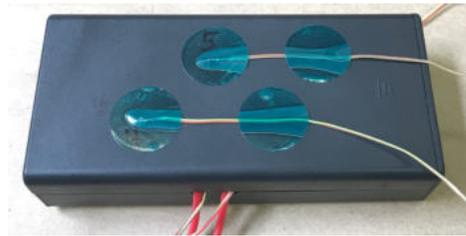
*Source: Market and Markets Research

Innovation + Growth Drivers = Scalable Business Models





Two Cell Battery Pack with Thermal Runaway



<https://drive.google.com/file/d/1eiJmDTsiRtlbxqfCWCC5eHKQu6dxGDwi/view?usp=sharing>

The Most Comprehensive Lithium-Ion Thermal Management and Safety Platform: From Testing to Lithium Battery Solution Provider

KULR Solution	KULR Battery Safety Platform
<p>ISC Safety Testing</p>	<ul style="list-style-type: none"> • Exclusive license to KULR from NASA and NREL • Most reliable way to initiate and test battery failures • Industry standard for testing battery failures
<p>Li-ion Cell Calorimeter</p>	<ul style="list-style-type: none"> • NASA technology partner • Accurately measures heat generated by a battery in thermal runaway
<p>Thermal Runaway Propagation Mitigation</p>	<ul style="list-style-type: none"> • Proprietary KULR Thermal Runaway Shield (“TRS”) technology • Best-in-class NASA-qualified solution • Passively prevents or mitigates the effects of thermal runaway propagation
<p>Battery Enclosure Protection</p>	<ul style="list-style-type: none"> • Integrated TRS + High temperature ablative material for complete battery protection solution for electronics and battery industries
<p>Fast Charge Thermal Management</p>	<ul style="list-style-type: none"> • Passive Phase Change Material (“PCM”) Solution • Quickly absorbs heat with minimal rise in temperature
<p>Shipping and Storage Solutions</p>	<ul style="list-style-type: none"> • Lightweight, cost-effective packaging solution with built-in TRS technology • Safely ship and store lithium batteries • NASA Leidos engagement to safely ship and store lithium batteries aboard International Space Station • Technology partnership with industry leaders in providing lithium battery packaging solutions for shipping damaged, defective, and recalled battery products for electronics manufacturers • Raises the bar on battery safety shipping standards

KULR Battery Storage Solution on International Space Station



Between January and June 2019, NASA JSC Propulsion & Power Division tested storage and use of rechargeable lithium ion laptop batteries. The tests intentionally triggered the batteries into dangerous failures in order to study what storage methods may stop battery fires from spreading battery to battery in the chain reaction known as thermal runaway propagation

It's part of the A Northrop Grumman Antares rocket will **launch** the CRS2 NG-12 (Cygnus) mission on Saturday, November 2, 2019



PROPULSION & POWER DIVISION
NASA LYNDON B. JOHNSON SPACE CENTER
HOUSTON, TEXAS

DATA PACKAGE
T61P LAPTOP BATTERY THERMAL RUNAWAY AND
CONTAINMENT BAG EVALUATION
ESTA-DP-7B284-02 -
8/12/2019

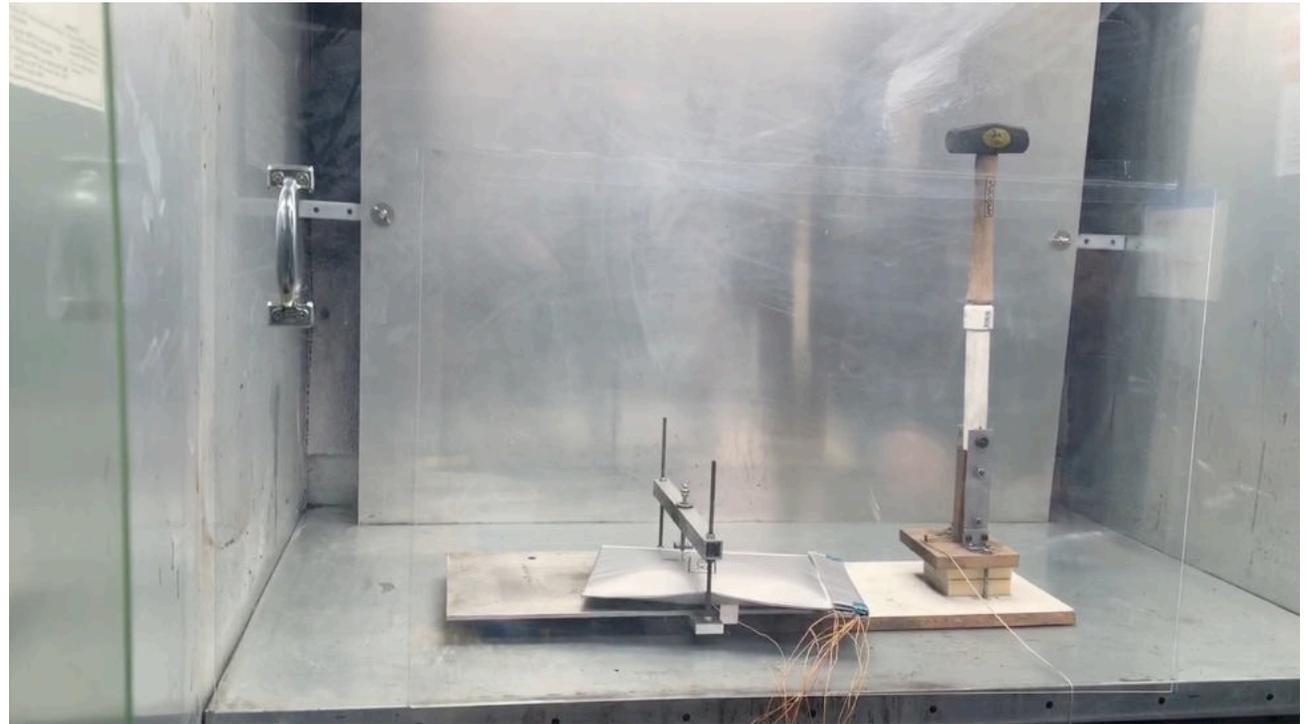
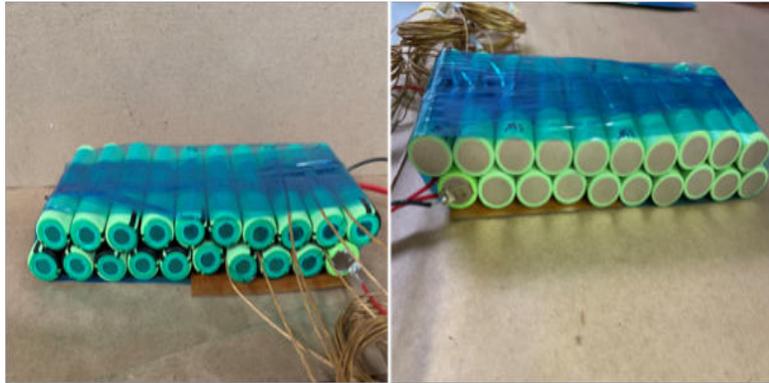
Test Director: *Marcus Dillon* 8/12/19
Group Lead:
Chief ESTB:

CHANGE RECORD

Revision	Date	Author	Description
-	8/12/19	MD	Initial Release

Template Rev 06/2019





https://drive.google.com/open?id=1XyudY_kTqrleXagqGk3MYhOJZsVaUnkr

- In Fall 2019, NASA used KULR's Passive Propagation Resistant (PPR) Thermal Runaway Shield ("TRS") technology to safely ship and store laptop batteries aboard the International Space Station
- On April 10, 2020, KULR entered into a commercial licensing agreement with Americase (www.batterybag.com) to leverage KULR's superior PPR packaging solutions for its business – KULR's TRS technology raises the bar on industry standards for safely shipping lithium batteries and the products containing them
- Americase provides the world's most widely used return packaging for damaged, defective, or recalled ("DDR") lithium batteries, owning a 70% market share of this business in the US – handled the Samsung Galaxy Note 7 recall in 2016 and is responsible for DDR shipments of virtually every manufacturer of consumer electronics
- Enables Americase to expand use of their US Department of Transportation Special Permit to encompass a wider variety of battery types and sizes
- Validates efficacy of TRS technology and expands KULR's footprint, offering the broad shipping and logistics industry a better way to ship and store lithium-ion batteries



NASA-Qualified Passive Propagation Resistant Design Approach for Battery Packs

2018

KULR's carbon fiber battery enclosure, Thermal Runaway Shield ("TRS") prototype conceived and patent application submitted



2018

2019

October 2019

KULR partners with Leidos providing NASA with TRS solution to ship and store batteries aboard International Space Station



2020

April 2020

KULR licenses TRS tech to Americase (www.batterybag.com), the industry leader of dangerous goods packaging solutions for lithium-ion batteries



January 2019

KULR secures patent for TRS

2019

Ongoing developmental work with global electronics and auto manufacturers on creating a safer battery module or pack for next-generation products



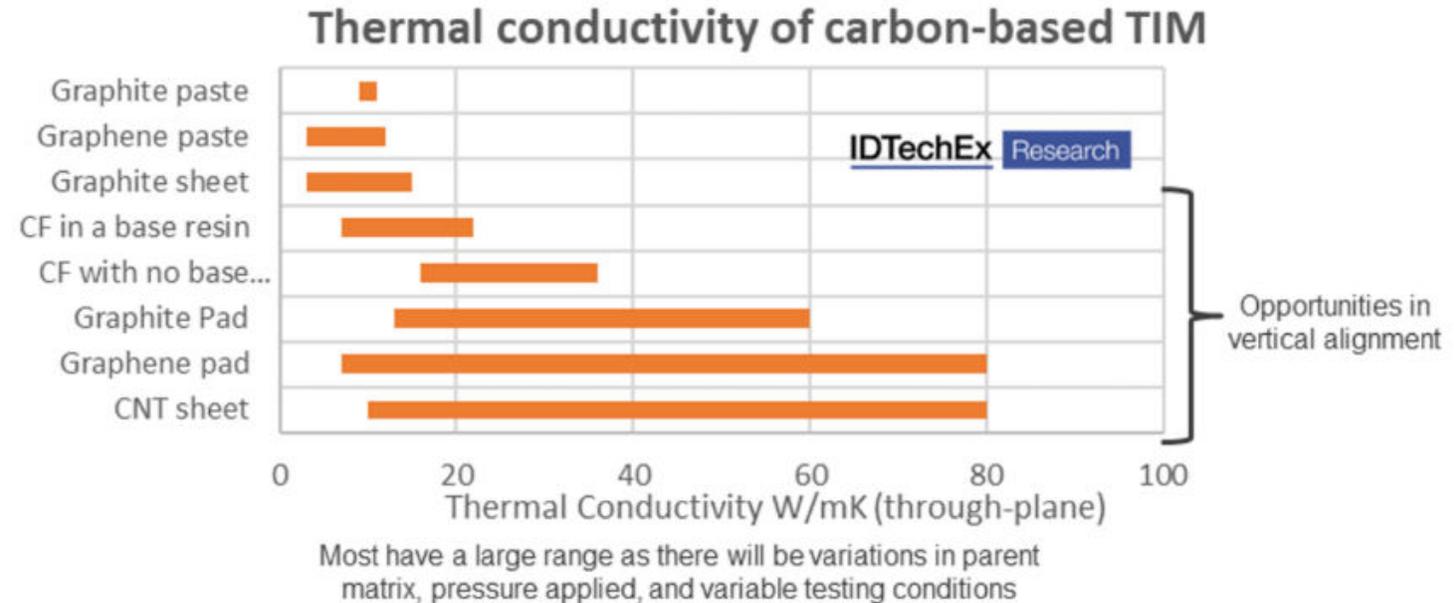
2020

Launch of the Passive Propagation Resistant ("PPR") Design Approach providing electronics and battery manufacturers access to KULR's expertise and NASA-qualified thermal management products to develop a cooler and safer lithium battery module or pack



IDTechEx, a recognized industry expert on emerging technologies, forecasts a changing application landscape in the consumer electronics, 5G, and electric vehicle markets will necessitate the use of a different class of thermal interface materials (TIM) including advanced carbons.

- Emerging class of high-performance materials with higher thermal conductivities
- Utilising carbon fiber as a TIM is a growing trend – KULR Technology is an emerging player
- A big driver of change is the energy storage market and specifically the lithium ion battery market in electric vehicles, where safety or preventing thermal runaway propagation is a serious concern
- Demand for TIM will exceed 30 million m² by 2025



Source: [IDTechEx](#), *Thermal Interface Materials 2020-2030: Forecasts, Technologies, Opportunities*

PROVEN TECHNOLOGIES To Transform E-Mobility, Consumer Electronics, And Aerospace Industries

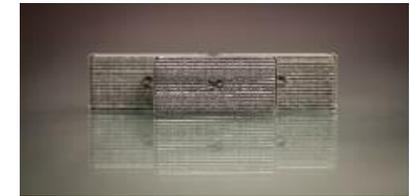
HYDRA Thermal Runaway Shield (TRS)

- Used in aerospace, defense customers and electric vehicle applications
- Offers a safe and reliable, light-weight battery management solution which prevents lithium-ion batteries from overheating and combusting
- Reduces risk of battery combustion for consumers, significantly limiting legal liability for OEMs



ARA Thermal Capacitor – PCM heat sink

- Carbon-fiber infused heat sink used to absorb/provide heat and eliminates the need for active cooling
- ARA is useful for compact and high-performance devices that require bursts of power in short intervals, such as batteries in space, high power lasers and RF components



URSA Fiber Thermal Interface (FTI) Material

- URSA products are high performance, flexible thermally conductive materials that will increase contact between two irregular surfaces and limit the loss of heat conduction across the surfaces
- Increases overall product performance and reliability and reduces manufacturing costs



LYRA Internal Short Circuit (ISC) Trigger Cell

- Exclusive commercialization partner of NREL and NASA
- Testing tool for battery manufacturers used to analyze and identify failure modes in rechargeable batteries
- Provides the industry with a safe and reliable way to test and ultimately create a better battery pack



Demand for high-performance passive cooling solutions in the rapidly growing 5G and cloud computing industries is increasing. KULR is collaborating with Tier-1 companies in the 5G infrastructure and cloud computing spaces to design and develop cooling solutions that enhance performance and safety standards.

- The 5G infrastructure market size is forecasted to be worth \$496.6 billion by 2027 with a CAGR of 106.4%*
- The global cloud computing market size was valued at \$266 billion in 2019 with a CAGR of 14.9% from 2020 to 2027*

KULR's proprietary suite of thermal interface materials have characteristics that collectively are of particular importance to the 5G infrastructure and cloud computing industries:

- High bulk thermal conductivity
- Low interfacial resistance at relatively low contact pressures
- High electrical conductivity for electromagnetic shielding
- Exceptionally lightweight and compliant (form-fitting)
- Industrial-level reliability

**Source: Grand View Research, 5G Infrastructure Market Size, Share & Trends Analysis Report (2020); Cloud Computing Market Size, Share & Trends Analysis Report (2020)*



Recently installed 5G cell site on Olympic Blvd in Los Angeles, California

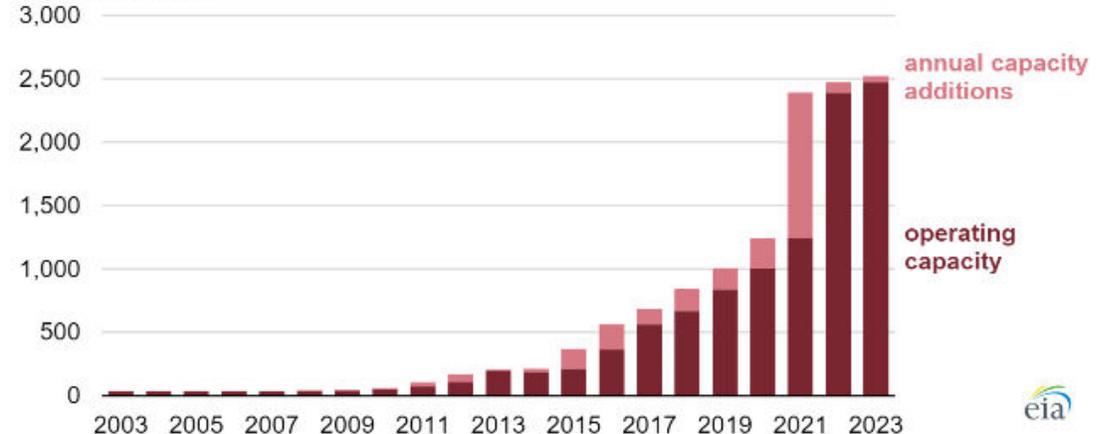
Utility companies are progressively turning to lithium battery energy storage installations that enable efficient grid operations. Storage is being deployed across the country with 2019 investments totalling \$712 million (522.7 megawatts/1,113 megawatt-hours) and expected to rise to just under \$2 billion in 2020*

- The U.S. energy storage industry has serious safety concerns - the June 2019 Arizona Public Service (APS) battery facility explosion highlights the importance for the industry to implement safer battery storage technologies capable of preventing thermal runaway propagation
- KULR is working with industry leaders to develop and test its world-class passive propagation resistant (PPR) solutions inside battery modules used by utility companies - KULR's Thermal Runaway Shield (TRS) creates a safer battery module preventing or mitigating the risk of thermal runaway propagation

*Source: Wood Mackenzie U.S. Energy Storage Monitor: 2019 Year-In-Review

U.S. utility-scale battery storage power capacity (March 2019)

megawatts (MW)



Source: U.S. Energy Information Administration, [Annual Electric Generator Report](#) and the [Preliminary Monthly Electric Generator Inventory](#)

Utility-scale battery storage capacity more than quadrupled from the end of 2014 through 2019. The U.S. EIA forecasts battery storage capacity to grow rapidly through 2023 with capacity approaching 2,500 MW



APS lithium battery energy storage facility
Source: Arizona Public Service

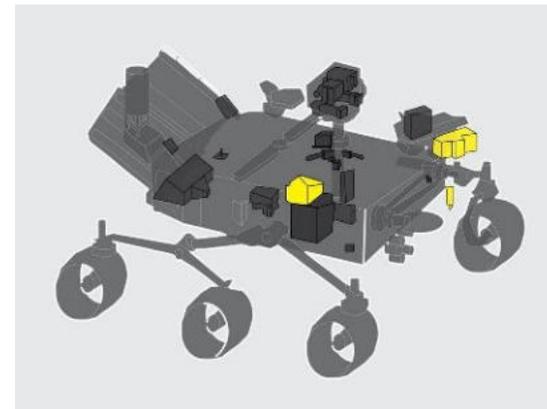
Mars 2020 Rover Heat Sink Technology for Earthbound Applications KULR

NASA plans to launch the Mars 2020 Rover named Perseverance on July 17, 2020. Perseverance will seek signs of ancient life and collect rock and soil samples for possible return to Earth. Mounted on the rover's robotic arm, SHERLOC uses spectrometers, a laser and a camera to search for organics and minerals that may be signs of past microbial life.

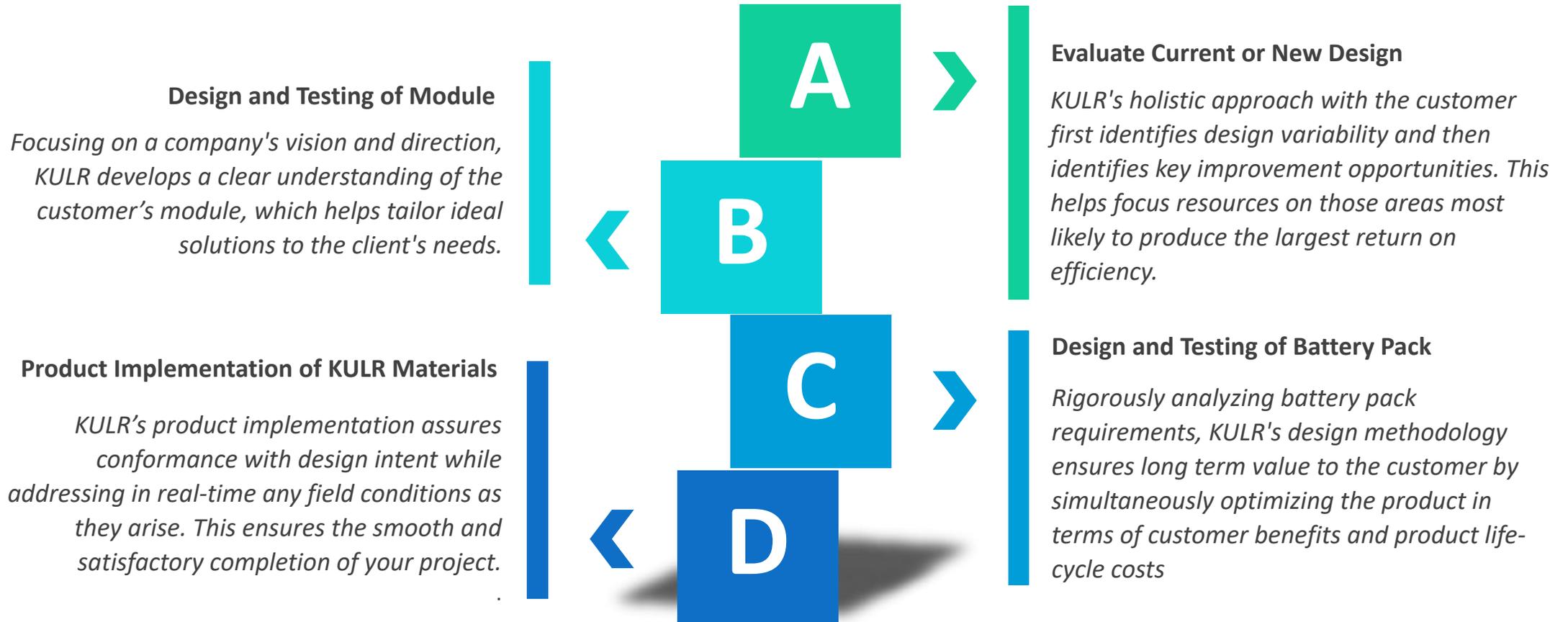
- KULR's carbon fiber core PCM heat sink technology included in the Mars 2020 Rover - component of the SHERLOC electronics system
- KULR's PCM is ideal for applications where energy/heat storage and stable, controlled temperatures are required
- Beyond aerospace and defense applications, opportunities for use in commercial applications include telecom equipment, industrial high-power electronics devices, robotics, battery cooling, and HVAC systems



Where is SHERLOC Located?



Source: [NASA](#)



A multi-pronged revenue model approach to best suit our customers needs

Markets	Design Services	Product Sales	Subscription Services	IP Licensing
Battery Design and Safety	✓	✓	✓	✓
Battery Shipping & Logistics	✓	✓	✓	✓
5G & Cloud Computing	✓	✓		✓
Energy Storage	✓	✓		✓
Electric Transportation	✓	✓		✓
Aerospace & Defense	✓	✓		✓

Summary : Innovation Drives Long-Term Shareholder Value



- **KULR Technology Group (KULR)** is a developer, manufacturer and licensor of proprietary next-generation carbon fiber thermal management technologies that make electronics and battery systems cooler, lighter and safer
- **Technology with roots in producing electronic and battery cooling solutions for NASA space missions** and transitioning into mass market commercialization. Key target markets include:
 - Aerospace and Defense
 - Battery Safety and Testing
 - Utility Level Energy Storage
 - 5G, Cloud Computing, and Consumer Products/Electronics
 - Shipping and Logistics (packaging solutions)
 - Electric Mobility
- **Attractive and scalable** business model with high gross margins (73%)
- **Robust patent portfolio** and 28 customer engagements across multiple industries
- **Experienced management team** with high insider ownership (+52%)

KULR Technology Group (OTCQB : KULR)	
Share Price*	\$1.14
Market Cap	\$89.3M
Revenues (TTM)	\$830K
Gross Margin (TTM)	73.0%
Debt	\$0.0M
Patents Portfolio	14
Shares O/S	81.19M
Float	38.5M
Customer Engagements	28
Headquarters	Campbell, CA
Employees	12
Insider Ownership	52.48%

* As of June 1, 2020.



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