



RENEWABLE ENERGY STORAGE SOLUTIONS

SUSTAINABLE
ACCOUNTABLE
DEPENDABLE

RECYCLABLE
REMARKABLE
HONORABLE
DURABLE
AFFORDABLE
AVAILABLE



ABLE:

That's Crown Battery Renewable Energy Storage Solutions – *In So Many Ways.*

ABLE ['ā-bə] adjective

1. having required power, resources, or qualifications;
2. having superior intelligence or knowledge;
3. having necessary talent or skill



Since the advent of the now-surging global reliance on solar and wind power, system experts and users worldwide recognized the need for reliable and readily available battery energy storage solutions. Crown did, too. What's more, we realized that for any renewable energy storage product to walk the green walk, it also had to be sustainable. So, we brought our full resources and capabilities to bear to meet market demand for today's most innovative array of responsible renewable energy batteries.



DEPENDABLE: Always Have Been, Always Will Be.

Whether the application is grid-connected with back-up power, entirely off-grid or custom large-scale storage, system owners count on Crown Battery Energy Storage solutions to deliver power on demand. That's why we employ the most advanced equipment, technologies, processes and specialists to develop dedicated high-performance renewable energy storage solutions – unlike some competitors that simply repackage existing batteries into an array and label it an RE line.

The result? An incomparable wind and solar power storage array that's ready to perform when it's needed, putting users' minds at ease as their investment pays off.

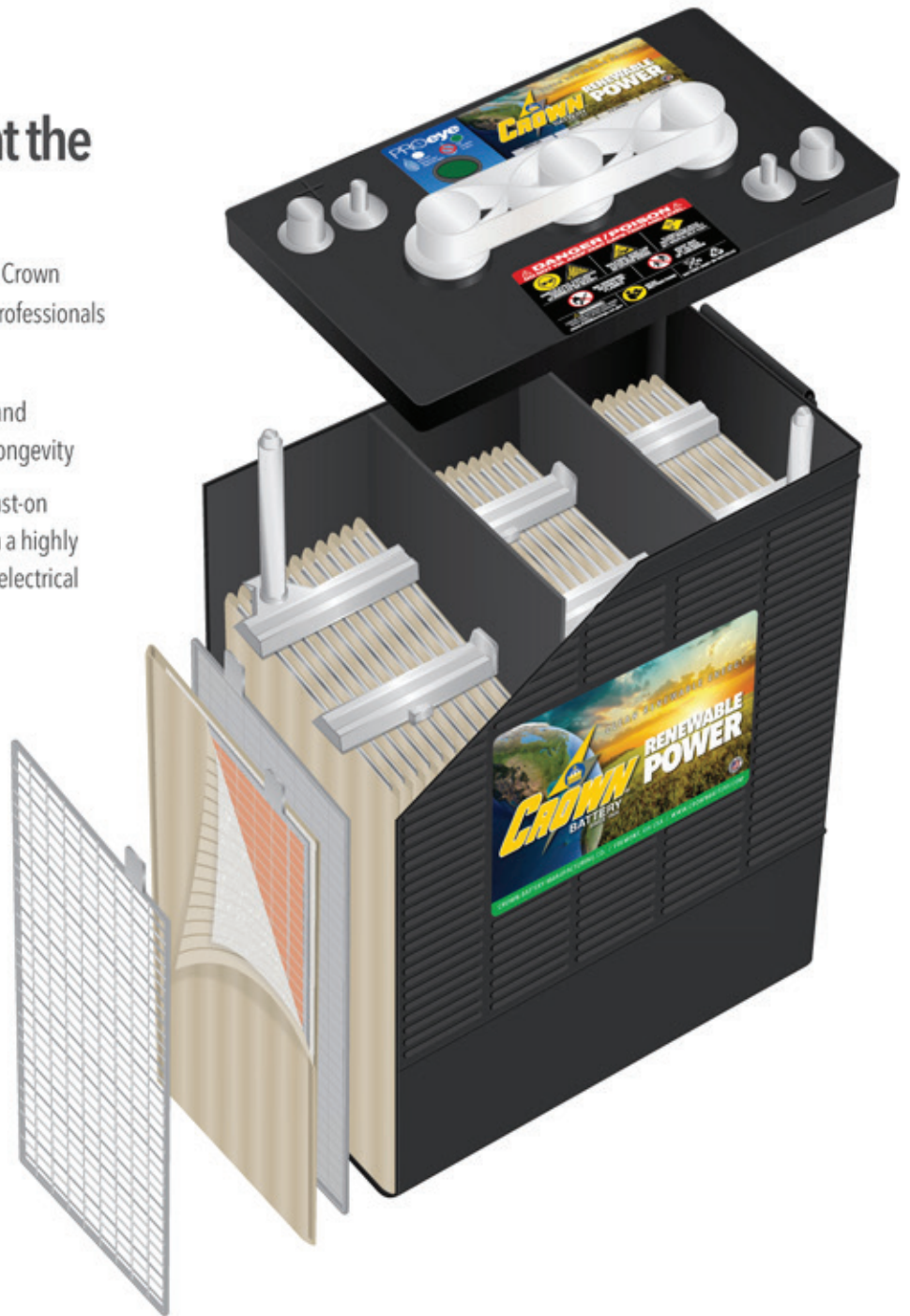
- ▶ The most comprehensive line of true RE batteries vs. other manufacturers
- ▶ Single-bank standard configurable capacities up to 116 kWh, customized single-string solutions up to 240 kWh – and scalable storage capacities up to 1.0 MWh (20 Hour Rate)
- ▶ Flexible design and manufacturing for tailored high-capacity industrial and utility-scale storage
- ▶ Proven design for Battery Storage System applications – with verifiable performance

RELIABLE:

Take a Look and See What the Experts Have to Say.

Here are just some of the design features that earned Crown renewable energy batteries recognition by industry professionals as "Best Available" and "Most Reliable":

- ▶ Exclusive C-Force™ Active Mass, heavy-duty plates and construction add up to superior performance and longevity
- ▶ Rugged Cell Construction: Signature heavy-duty cast-on strap and terminal post structures manufactured in a highly automated production process deliver unmatched electrical efficiency and durability
- ▶ Low-Maintenance Reliability: Crown Renewable Products' low-maintenance design ensures reduced Preventative Maintenance frequency, lower PM service costs, and best-available user ROI
- ▶ Safe & Easy Handling: Our renewable energy storage batteries include fixed handles or lifting lugs to enable safe and easy handling as well as the flexibility to be installed with or without battery racks



ACCOUNTABLE:

Proven Manufacturing Principles & Commitment to Market Responsibility.

We learned long ago that to build and bring the best batteries to market, we needed to continually invest in the best people, technology, workflow practices, training, facilities and materials. This combination of best-in-class R&D, resources and know-how has enabled us to not only deliver top-performing, durable and long-lasting renewable energy storage products, but to eliminate waste in every aspect of our process.



99%
RECYCLE RATE
FOR LEAD ACID
BATTERIES



**FOR OVER
150 YEARS**
LEAD ACID BATTERIES
SAFEST & MOST
RELIABLE POWER
STORAGE SOLUTION



70%
LEAD ACID BATTERIES
CONSTRUCTED
FROM
RECYCLED LEAD



SUSTAINABLE: Calculating the Lead Acid Advantage.

As a leading innovator and manufacturer of lead-acid batteries, Crown is deeply devoted to sustainability and environmental stewardship, helping to conserve resources, reduce our carbon footprint – and yours! – and provide power storage solutions for renewable and traditional energy sources while keeping our planet safe and clean for generations to come.

- ▶ Lead acid batteries are recycled at a rate of 99% of shipments annually in North America
- ▶ For over 150 years, lead batteries have been noted as the safest and most reliable power storage solution
- ▶ 99% of lead acid battery materials are recycled and reused vs. 0-20% of alternative storage technologies such as lithium ion
- ▶ 70% of all lead acid batteries are constructed from recycled lead
- ▶ Lead acid battery recycling is profitable while lithium ion battery recycling is quite costly

Crown Battery is also committed to ethical business practices throughout our global supply chain. We conduct supplier country-of-origin inquiries and response evaluations using the Responsible Minerals Initiative's Conflict Minerals Reporting Template, significantly setting our sourcing practices apart from those of alternative battery technology manufacturers.





0-20%
RECYCLE RATE
FOR ALTERNATIVE
STORAGE
TECHNOLOGIES



LEAD ACID BATTERY
RECYCLING = PROFIT
VS.
LITHIUM ION
RECYCLING = EXPENSE



FORESEEABLE DEMAND:

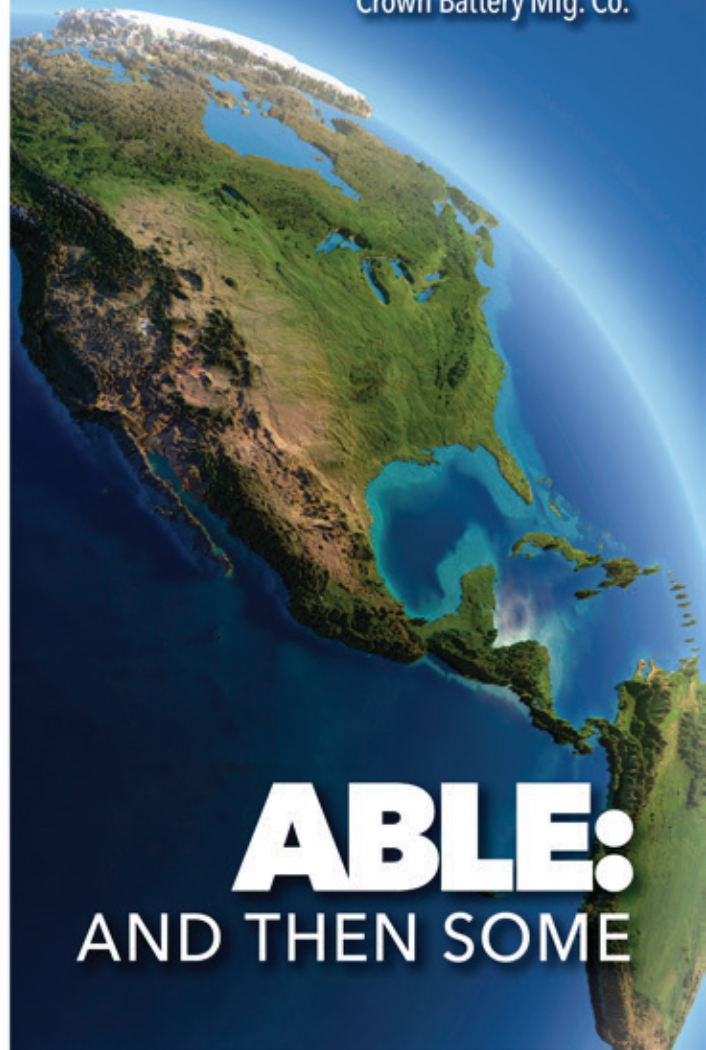
We've been meeting expectations and anticipating needs for nearly 100 years, delivering forward-thinking solutions to the challenges posed by ever-changing technology and applications. What's coming up next depends on what the world will need – but you can be sure that Crown will be at the forefront of solving tomorrow's battery energy storage challenges, just like we have since 1926.



HONORABLE: We Respect the Wellbeing of Our Global Community and Environment.

"Achieving sustainable energy and reducing your carbon footprint are both pro-active. They are carefully conceived declarations of 'who we are' and 'what we believe.' They are concepts designed to become one with our environment. We are all responsible. To you. To our world."

Hal Hawk, President,
Crown Battery Mfg. Co.



ABLE: AND THEN SOME

AVAILABLE WORLDWIDE:

Our partner, dealer and distribution network spans
over six continents, with Crown Battery customers
in more than 65 country-markets.



The Power Behind Performance



1445 Majestic Drive | P.O. Box 990
Fremont, OH 43420 USA
+1.419.334.7181 | Fax +1.419.334.7124
www.crownbattery.com
commercial@crownbattery.com