

## Durathon is changing the way telecom companies think about power and their operations.

Imagine an energy backup source that can improve telecom service throughout the world. GE's sodium metal halide batteries can enable more effective telecom operations around the world, and their reliability and long life can help telecom companies expand service to customers everywhere. Across Africa, this exciting technology can extend cell phone service to waves of new customers by helping generator-powered cell towers operate more efficiently by using less fuel and emitting less pollution. In emerging markets, where power outages regularly disrupt service for hours, its ability to charge quickly and function in extreme temperatures without compromising cycle life brings the promise of constant connections to foster business and support the basic necessities of life. And in developed nations, Durathon is ushering in a new era with more efficient batteries that take up less space in urban centers.

### DURATHON'S TOTAL COST OF OWNERSHIP ADVANTAGE OVER LEAD ACID BATTERIES

DURATHON
Extended cycle life
Temperature independent, with an operating range of -40°C to +55°C
No maintenance needed over the life of the battery
No cooling required eliminating HVAC equipment & operating costs
½ the footprint & less than ½ the weight

#### LONGER LIFE

Durathon batteries provide cycle life that is greater than that of traditional lead-acid batteries in telecom applications. This feature offers tremendous value to customers in applications where there is no electric grid. Durathon's quick recharge time can enable consistent operations in any region of the world, and as industry standards move toward a range of 8 to 12 hours for backup power, its capabilities make it flexible enough to accommodate the evolving telecom requirements.

#### TEMPERATURE INDEPENDENT

Durathon is capable of functioning in the most extreme temperatures without any loss in performance or life. It does not need an expensive controlled environment for peak performance, opening up possibilities for bringing cell phone service to the most remote areas of the world by minimizing operating costs.

#### NO MAINTENANCE

With longer life, an ability to deliver in almost any temperature, and remote monitoring capabilities, Durathon batteries need no service contracts, greatly reducing their operating expense compared with the traditional storage solution. In addition, they produce no toxic chemicals, are fully recyclable, and require no costly disposal, making Durathon as good for the environment as it is for your bottom line.

#### MORE EFFICIENT FOOTPRINT

Durathon takes up just half the space and weighs less than half traditional batteries, delivering all of the energy your operations need in a much smaller package. Storing more energy in a smaller space enables companies to reduce the costs of housing your storage option. The amount of savings in urban areas can be especially substantial.



Suitable for Extreme Temperatures



Small Footprint



Long Life



High Energy Density



Designed for High Reliability



Minimal Maintenance



## About Durathon

For more than 100 years, GE Transportation has been passionately committed to innovations that make the world a better place. Durathon battery technology, the latest chapter in our proud history, emerged from our focus on energy storage. Sodium battery technology has been in existence for nearly 30 years, but GE's acquisition of Beta R&D in 2007 jump-started its application for mobile and stationary energy storage. This technology represents an important milestone; we truly believe that energy storage will never be the same.

What began as a quest for a power source that could conform to the limited space and rigorous demands of our hybrid locomotives has taken on a life of its own. Utilities see Durathon as part of their solution to an aging power grid and as a tool to realize the promise of alternative energy sources. Telecoms can extend service to new customers in places once deemed to remote or cost prohibitive. And as an uninterrupted power source (UPS), Durathon offers the promise of greater reliability in a more sustainable package. We see these uses as just the beginning: we're currently working on exciting applications of Durathon technology for the rail, marine, mining and transportation sectors.

Realizing the full benefits of such a game-changing technology often requires collaboration. That's why we're working closely with industry leaders to understand all of Durathon's applications. We are also entering into joint development agreements with the public sector to extend Durathon's reach and impact. With these collective efforts, we are contributing to a brighter future for people around the world.

**For more information, please visit [www.geenergystorage.com](http://www.geenergystorage.com).**



Inside the GE Battery Lab



imagination at work

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