



### Scalable, reliable and environmentally-friendly

A flexible solution, our hybrid power system is scalable for both greenfield and brownfield sites to meet existing site optimization and future expansion requirements. Available for both grid and off-grid applications, the system is also modular to meet your site specifications and operating conditions for easy installation as well as easy integration of existing equipment.

Cummins Hybrid Power System enables you to meet your financial and environmental goals, now and in the future.

- Increased reliability and availability of site
- Reduced CO2 emissions
- Full site transparency



### THE CUMMINS ADVANTAGE

## Integrated, Reliable Cell Site Power for Maximum Value

#### Best Total Cost of Ownership

With the Cummins Hybrid Power System, innovative, efficient cell site power is just the beginning of the story. Our relentless focus on driving down TCO and optimizing capital expenditure includes providing all the closely integrated system components from one expert source. All components work seamlessly with each other, providing maximum operational efficiency while optimizing capital expenditure.

The Cummins Hybrid Power System delivers site operational expense reductions of up to 70% through:

- Load based charging technology, reducing fuel consumption and increasing battery life
- Extended service interval, reducing service and travel, especially for remote cell sites

#### Impactful control and monitoring

Cummins Hybrid Power System features web-based remote monitoring capability, reducing operational expense as well as increasing performance and durability. Cummins' remote monitoring system delivers the information and system analysis for more proactive maintenance, superior hybrid system control and energy management, especially important for remote cell sites.



## Integrated Global, Local Service Network for Assured Uptime

Cummins delivers the strength of the leading supplier of prime and standby power to the global telecoms industry and the accessibility of a local partner that stands by you. Our extensive, expert support network means fast response, minimal downtime and maximum efficiency for your telecom network.

**Service network in 190 countries from over 6,000 service locations**

*Close to your sites for maximum uptime.*

**Best warranty on the market**

*Longer and better coverage.*

**Single point of contact with Cummins**

*Avoid accountability and warranty issues.*

#### North America

1400 73rd Ave. NE, Minneapolis  
MN 55432, USA  
Phone 1 763 574 5000  
Fax 1 763 574 5298

#### Africa

Cummins South Africa  
Bldg - 8, Harrowdene Office Park  
Western Service Road, Woodmead  
Johannesburg 2144, South Africa  
Phone 27-11-589-8500  
Fax 27 11 321 8700

#### Asia Pacific

10 Toh Guan Road, #07-01,  
TT International Tradepark  
Singapore 608838  
Phone 65 6417 2388  
Fax 65 6417 2399

#### Brazil

Rua Jati, 310, Cumbica  
Guarulhos, SP 07180-900, Brazil  
Phone 55 11 2186 4195  
Fax 55 11 2186 4729

#### China

8 Wanyuan Street, Beijing Economic  
and Technological Dev. Area  
Beijing 100176, P.R. China  
Phone 86 10 6788 2258  
Fax 86 10 6788 2285

#### Europe

Manston Park Columbus Ave.  
Manston Ramsgate, Kent CT 12 5BF  
United Kingdom  
Phone 44 1843 255000  
Fax 44 1843 255902

#### India

35A/1/2, Erandawana,  
Pune 411 038, India  
Phone 91 020 6602 7525  
Fax 91 020 6602 8090

#### Latin America

3350 Southwest 148th Ave.  
Suite 205, Miramar, FL 33027, USA  
Phone 1 954 431 5511  
Fax 1 954 433 5797

#### Mexico

Eje 122 No. 200 Zona Industrial  
San Luis Potosí, S.L.P. 78395 Mexico  
Phone 52 444 870 6700  
Fax 52 444 824 0082

#### Middle East

Cummins Middle East FZE  
P.O. Box 17636, Jebel Ali Free Zone South  
Dubai, United Arab Emirates  
Phone 971 4 880 9911  
Fax 971 4 886 0518



**Power  
Generation**

[power.cummins.com](http://power.cummins.com)

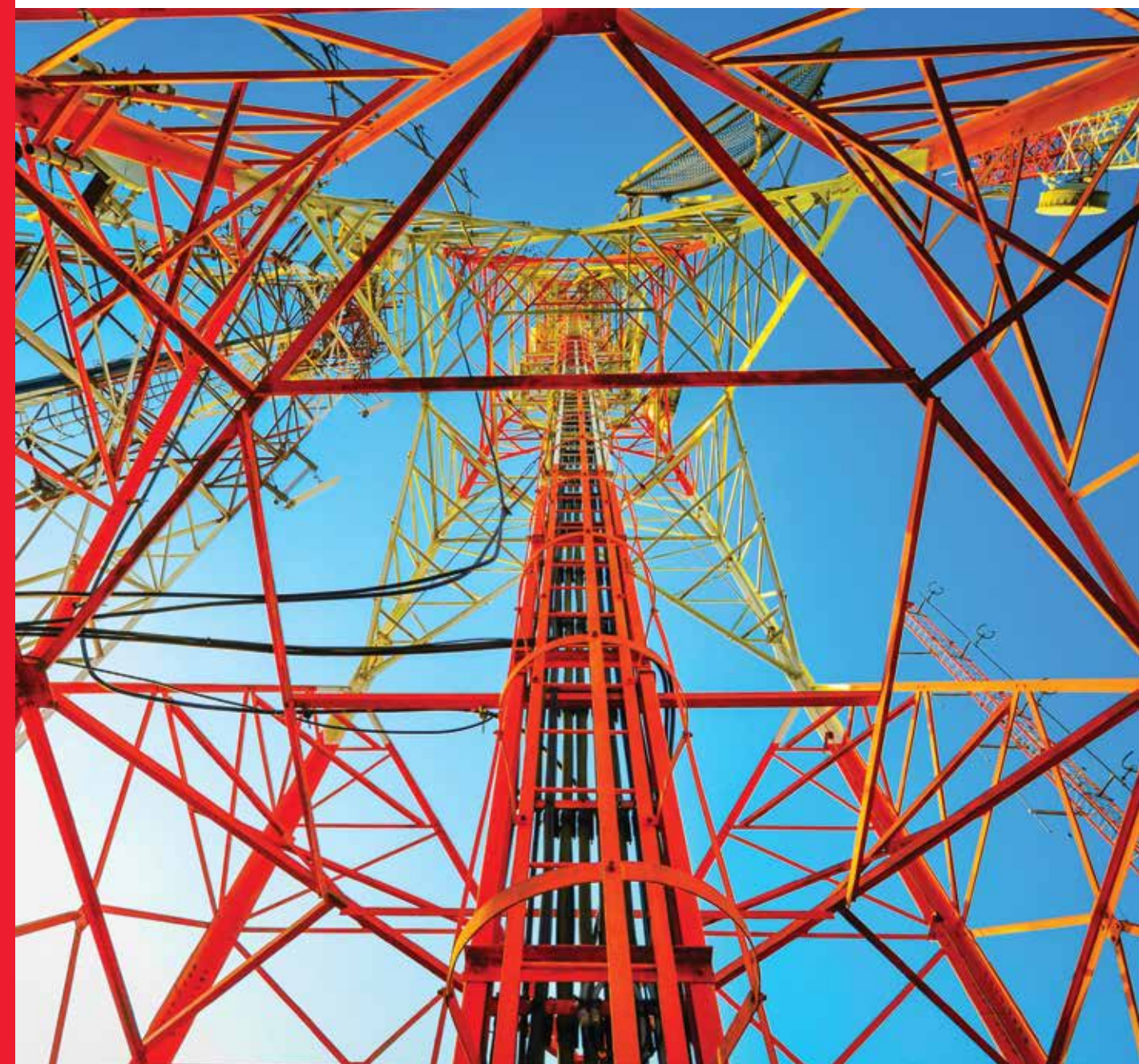
Cummins® and the "C" logo are registered trademarks of Cummins Inc. Our energy working for you.™ is a trademark of Cummins Power Generation. ©2014 Cummins Power Generation. All rights reserved.

GLSB 5996 - EN 9.14



### HYBRID POWER SYSTEM

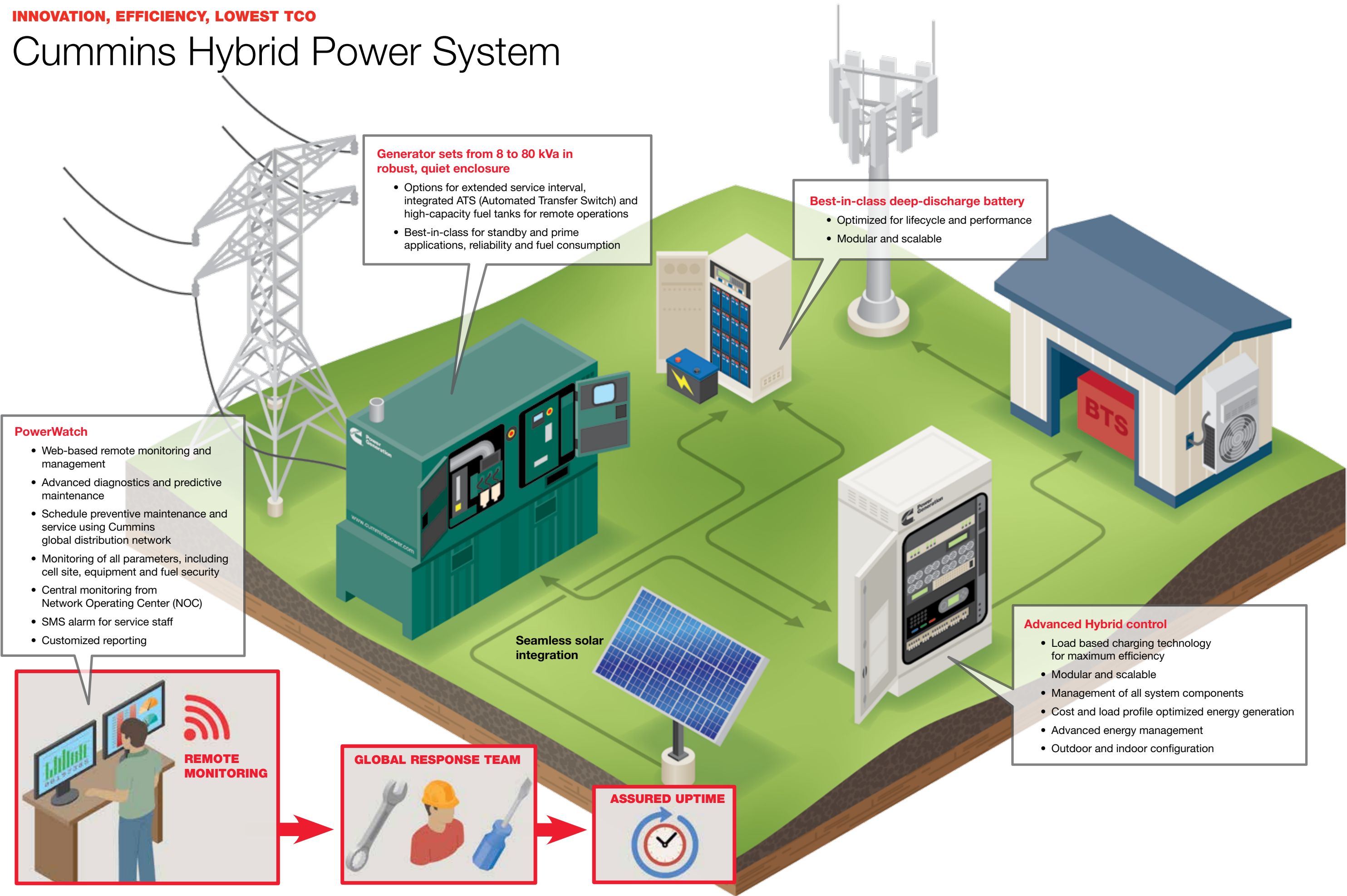
## Innovation in Cell Site Power





INNOVATION, EFFICIENCY, LOWEST TCO

# Cummins Hybrid Power System



Cummins Hybrid Power System is a complete generator-battery-solar hybrid solution for cell site power.

**Our innovative, load based charging technology provides greater efficiency, superior control and reduced fuel usage providing the lowest Total Cost of Ownership (TCO) you'll find among power generation solution providers.**

Conventional method of battery cycling such as State of Charge (SOC) is dependent upon calculation of input current integrated over time, so any small measurement errors are magnified, leading to inaccurate values. This inaccuracy results in reduced battery life, higher operating costs from fuel consumption and unpredictable maintenance. Cummins introduced load based charging, our exclusive battery cycling technology, to address SOC error issues. Our technology focuses on improving the total energy efficiency of cell site, enabling a better process and a far more advantageous operational expense reduction.

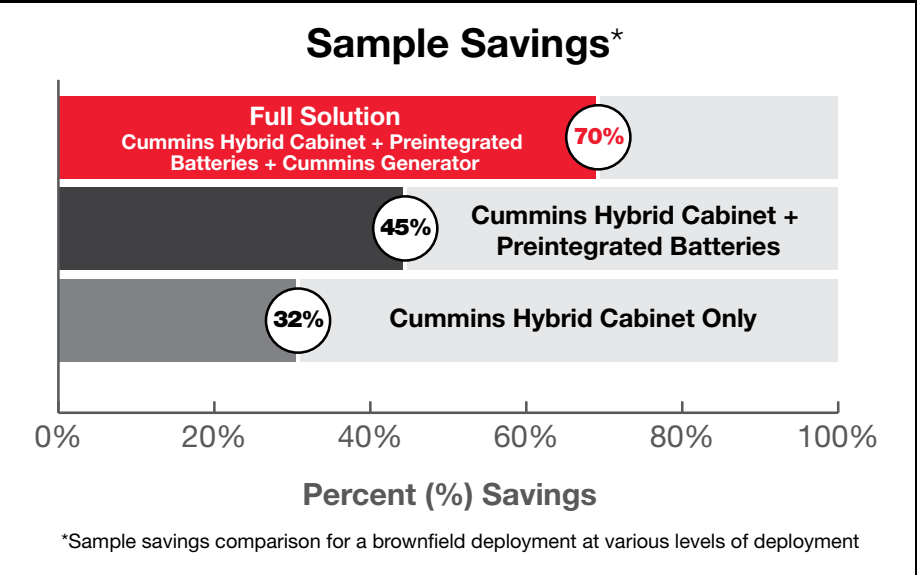
Our proven experience with diesel generators means whenever the generator runs, it runs in the most efficient way. This results in lower operating expense, longer battery life and predictability of operations. Coupling this



innovative efficiency with our tightly integrated products and services, we deliver legendary reliability along with our extensive global, local service network for maximum uptime and performance.

## Operational improvement tailored for your deployment scenario

Whether your deployment is greenfield or brownfield, indoor or outdoor, the highly modular Cummins Hybrid Power System lets you choose the operating expense improvement for your unique circumstances while optimizing capital expenditure.



**Choosing full solution deployment enables operating cost reductions of up to 70%.**