

RURAL ELECTRIFICATION

➤ SMART CLASSROOM - RURAL INDIA



“THE CONCEPT OF THE SMART CLASSROOM IS A BLESSING TO THE STUDENTS OF THE 21ST CENTURY LIVING IN RURAL REGIONS THROUGHOUT INDIA. WITH THE HELP OF TROJAN BATTERY, TEAMSUSTAIN IS ABLE TO ESTABLISH CLEAN SOURCES OF ELECTRICITY TO POWER THIS INNOVATIVE LEARNING SYSTEM.”

GEORGE MATHEW ➤ TEAMSUSTAIN

➤ LOCATION	➤ CHALLENGE	➤ SOLUTION	➤ OUTCOME
Rural India	To bring an innovative Smart Classroom to remote villages.	Off-grid solar system with Trojan Smart Carbon batteries for backup power.	Students in rural Indian villages have access to learning opportunities.



200 TROJAN BATTERIES

18 SMART CLASSROOMS

1,000+ CHILDREN SERVED

LOCATION

Remote villages of India in the states of Assam, Bihar, Karnataka, Orissa, Telanganan, and West Bengal.

CHALLENGE

Because these villages are off-grid, educational materials and opportunities are very limited. Some small schools have nothing more than a blackboard and chalk. Many of these also lack proper basic infrastructure, such as access to clean water or reliable electricity.

SOLUTION

Off-grid solar systems were designed with Trojan deep-cycle batteries with Smart Carbon™ as the battery-backup solution due to their reputation for high quality, durability, and ability to withstand conditions in remote, often extreme locations.

Schools were introduced to an innovative education concept called Smart Classroom—a technology-based learning opportunity tool developed by Trojan, TeamSustain, and American Tower Co.—and deployed in 18 community schools to foster opportunities for teaching and learning. The schools were also equipped with LED lights, TVs, computers, and solar-powered water purification systems.

SYSTEM SPECIFICATIONS

- Batteries: (200) Trojan SPRE 06 255* 6-volt deep-cycle flooded batteries with Smart Carbon™
- Solar Panel Modules: Vikram Solar – 250Wp
- Inverter: Outback GVX3048E/GFX1448E
- Charge Controller: Outback FM60/FM80

**The Solar Premium SPRE 06 255 battery was previously known as the T105-RE battery.*

CHARGING  FORWARD

For More Information / www.trojanbattery.com / www.teamsustain.in / www.americantower.com

Trojan Battery Company / 10375 Slusher Drive, Santa Fe Springs, CA 90670, USA

Email / marketing@trojanbattery.com

Trojan batteries are available worldwide and backed by outstanding technical support provided by full-time application engineers.

© 2019 Trojan Battery Company, LLC. All rights reserved. Trojan Battery Company is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. Trojan Battery Company reserves the right to make adjustments to this publication at any time, without notice or obligation.

RE_CS_SmartClassroom_050219

OUTCOME

Thousands of children in these remote areas now have electrified and modernized schools, access to clean water, and technology-based learning tools that both enable these children to pursue an education and improve the quality of life for everyone in these communities.

BATTERY SOLUTION



- Engineered for RE Applications
- Rugged and Durable
- High Quality and Low Maintenance



PARTNERS



www.teamsustain.in



www.americantower.com



800.423.6569 +1.562.236.3000

TROJANBATTERY.COM