



WORLD'S FIRST 100% SOLAR POWERED QUARRY

BoDean Company's Mark West Quarry made history on May 11, 2011 when they "Flipped the Switch" and became the first quarry in the world to be 100% reliant on solar power. BoDean Company owners, Belinda and Dean Soiland have made the BoDean Company an industry leader in sustainability and eco-friendly mining operations.

to maximize the angle of the solar rays by being spread over approximately 4 acres on the side of the mountain which are the old quarry workings. The electricity produced by the solar panels offsets the release of 18,440,521 pounds of carbon dioxide annually, which is enough energy to power 160 typical American homes for a full year.



In addition to the use of solar, the company is also dedicated to the extensive use of recycled materials in its production process, as well as actively pursuing a managed reclamation plan that coincides with quarry operations.

The Mark West Quarry photovoltaic system generates 1,165,000 kilowatt hours of green energy per year from 3,488 state of the art solar panels. The panels are strategically positioned

The BoDean Mark West Quarry utilizes two **REMco VSI** crushers. The first of these was installed in 1995, a **SandMax Model 9000** as a tertiary crusher producing various aggregate products. This machine is powered by twin 250 HP motors for a total drive power of 500 HP. That is a lot of sunshine! The **REMco** unit has continually generated the best cubical shape aggregate from the **Mark West Quarry** basalt rock for over 16 years.

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The second VSI unit is **REMco Model 400 SandMax** used to produce C-33 tight specification concrete sand with excellent FM. This machine was installed in 2009 as part of the BoDean's company expansion to meet the growing concrete demand of the Saint Helena / Santa Rosa California area. Using solar generated electric power to drive this machine, BoDean further lowers its sand production cost.

The BoDean Solar Powered Quarry is the first in the world to use sunshine to produce crushed rock. Their REMco VSI units convert sunshine to the highest quality aggregate and sand.

We Want to Hear from You!!!

Technical Questions, Job Stories or Crusher Challenges

This newsletter is produced for REMco users and its intent is to make your life easier! Our success depends on your success. We want to hear what's been happening with the REMco crusher in your plant. Send us your questions, comments and job stories to the email addresses below. If you don't use email, drop us a line by snail mail or give us a call. Who knows? Maybe you'll see your question or story in print...

Print vs. Email - We Want to Know!!!

In today's fast paced world, it's difficult to balance tradition and technology. Traditionally, newsletters are done in print and mailed to the recipient. However, technology makes it possible for you to receive your newsletter electronically and skip the trip to the mail box. So the question is simple... ***Print or Email? How would you like to receive your newsletter?*** If you would like to receive your monthly newsletter in a format other than the way you are reading this information right now, or if you would like to NOT receive a newsletter at all, please contact:

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This Month's TECHNICAL TALK . . .

Basic VSI Crusher Safety

REMco VSI crushers are large, heavy, industrial machines designed to operate in a wide variety of crushing plants. All features of a REMco VSI are designed for safe operation, but the user must be part of the total safety equation. Here are some important aspects when installing and operating a **REMco** VSI crusher.

- Whenever lifting a complete **REMco** crusher take care to use properly sized shackles, cables, or lifting straps and be sure that they are attached to designated lifting points on the machine. Tie down any loose hydraulic hoses, disconnected electrical wires, etc. Tighten the crusher security bolts to the support frame. Confirm the total crusher weight and use a crane overrated for the load.
- When installing the **REMco** crusher have a proper support structure or **REMco** installation kit so that the machine is secure and level. Use concrete pad and bolt it down if possible. Do not place on unstable ground or soft soil.
- Provide a safety platform around the crusher with hand railings, toe boards and access ladder or stair case to make a safe support for workmen during inspection and repairs to the crusher.
- For portable units, crib with sound timber for level operation at designated points on the chassis; keep the axels off the ground during operation.
- All personnel working with and around the VSI crusher should read and familiarize themselves with all information, caution and safety signs on the machine. Read the instruction manual and maintain the operation log book.
- Check and double check that all safety interlocks and safety cutouts are operational on the crusher and the related equipment in the circuit. Never stop the crusher discharge conveyor while the crusher is crushing.
- Always lockout the crusher before any inspection or maintenance work is done on the machine.
- Have drive guards on all V-belt drives on the feed and discharge conveyors.
- Use all safety equipment, such as hard hats, steel toe shoes, safety glasses, safety vest, dust mask, and proper work gloves whenever crusher work is necessary.
- Maintain good housekeeping around the crusher, clear any debris that accumulates from material spillage. Put away all tools, eliminate all trip points to maintain clear walking areas.
- Provide shields around the crusher feed area to make all the rock go into the crusher and eliminate ricocheting rocks out of the machine.
- Report any unsafe conditions to your supervisor. Do not operate crusher until the condition has been fixed.
- Check all safety systems and maintain them on a regular inspection schedule.



Upcoming Events

Back to School ... Service & Maintenance School

NOW BACK BY POPULAR DEMAND!!! A buzz has started up about **REMco's Service & Maintenance School**... So we're bringing it back for all those who were unable to attend.

This **Service & Maintenance School** is specifically designed for the folks that work on and with REMco VSI crushers. We will discuss in depth how the crusher works, how to make it perform at optimum levels, how to reduce maintenance time, reduce costs through proper parts selection and more. We'll get down into the nuts, bolts and oil of the machine, from the feed distributor in the hopper to the discharge hopper at the base, everything in between and much more.

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**February
7th & 8th
2012**



AGG1 2012

AGGREGATES FORUM & EXPO

AGG1 Aggregates Forum & Expo focuses exclusively on the aggregates industry as its leading exposition and education resource. **AGG1** features in-depth industry-focused educational programming and comprehensive exhibits that showcase the latest technologies and innovations in aggregates-related equipment, products and services.

AGG1 will be held March 13-15, 2012 at the Charlotte Convention Center in Charlotte, North Carolina, USA. The 2012 **AGG1 Aggregates Forum & Expo** is co-located with the 2012 World of Asphalt Show & Conference, providing an enhanced show experience for attendees by offering additional exhibits and education opportunities.



AGG1 exhibits feature a wide range of aggregate-related equipment, products and services, with exhibits that incorporate demonstrations and technology. This show features a New Products & Technology Program as another way for attendees to quickly find new and innovative products and services on the show floor. In addition, product-focused exhibit pavilions will make it easier for attendees and exhibitors to connect and discuss specific operational functions.