Navigating the Future—Bergelectric Positioned to Deliver

Although the financial crisis of 2008 seems like a long time ago, much of the fallout from the initial debacle still lingers in 2013. As we consider the future, there are market and financial challenges we continue to face including:

- Tight margins on projects
- A sluggish (though improving) private sector
- A shrinking federal-project sector

Improved Performance and Key Initiatives Drive Growth

Remarking, in spite of all these obstacles, Berg experienced growth in 2012—with sales of $900 million and a workforce that has surpassed 2,100 highly-capable professionals. Additionally, we have improved our performance and expanded many of our regional divisions across the country. Several key initiatives are driving our success:

- Better internal and external communication striving for “One Berg”
- Monthly board meetings to monitor and propel initiatives
- Emphasis on Key Performance Indicators to increase efficiency

In short, if a robust economy returns, Bergelectric has extraordinary resources in place that will allow our company to continue to provide a high level of service to both our employees and clients! Many thanks to our loyal clients, employees and suppliers—together we have a bright future.

“Both the Chemnitz and Camp Lejeune assignments are indicative of the scale and magnitude of photovoltaic projects we’re participating in, which are contributing to Berg’s maturing as a national force in alternative energies.”

Tom Anderson, President/CEO, Bergelectric Corp.
Berg Provides 24/7 Protection at Critical Data Center

UPS Upgrade Offers Continuous Service and Peace of Mind

Knowing that help is just a phone call away provides peace of mind for 13.6 million customers—those relying on the nation’s leading providers of emergency road-side assistance, and a host of other insurance and banking services. Channeling complex and criss-crossing requests is the hub for information flow.

Recognizing that any power outage at the more than 10,000-sf facility—regardless of duration—was unacceptable and could prove catastrophic to service, Berg provided a major uninterrupted power supply (UPS) upgrade. This included an upstream Automatic Transfer Switch and furnishing a new 2 MW genset.

“Carefully choreographed coordination and intricate timing was essential to a successful transfer of power,” noted William Sorber, VP Southeast Region. "In the absence of any site limitations, Berg was the perfect choice. We’re very pleased with the outcome.”

One Berg—One Mission

Supporting electrical engineer Synta Henneguyt Group in a design-as-assist role, Berg was responsible for installing a new 1.5 MW UPS power system featuring an automatic Automatic Transfer Switch and furnishing a new 24.7 MW genset.

"Intricate timing was essential to a successful transfer of power for this complex data center—experts from several Bergable electric offices and divisions united as one driving force to make it all possible."

Flawless Transition Requires Meticulous Preplanning

To facilitate the changeover, Berg’s Preliminary Manager Wally Macias orchestrated the delivery of over 400 precisely-assembled and clearly-marked branch-circuit wireman. “Making a flawless transition from the client’s existing system, in a live fully-functional data center within an eight-hour window, required intense planning that produced a meticulously calculated and pre-approved Methods of Procedure for critical outage activities,” said Los Angeles Service Division Manager Mark Erickson. "The result: a successful installation achieved by the comprehensive expertise and resources of Bergable in a seamless delivery of a new $80 million UPS system that will help provide consistent, reliable operation and peace of mind for years to come."

Berg's Levittown facility, in the midst of a massive expansion, was hard-wired in preparation for any power supplies for the new building.

Berg’s crews clocked more than 14,000 hours over a compressed four-month installation, which included a 3,000A extension to the existing generator paralleling gear, new generator isolation board and roll-up generator connection box. "Our experience and the team Berg assembled for this project proved invaluable. Berg has the resources, the understanding and the experience to pull off a project like this," noted Jay Dee Wise, Senior Project Manager, Bergelectric Corp.

Design-Building Navy’s Largest Project

Trust and Teamwork Propel Camp Pendleton Hospital Toward Early Completion

Although Marine Corps Base (MCB) Camp Pendleton’s vision “supports better customer’s tomorrow’s future,” many of the aging buildings dotting the sprawling 125,000-acre training facility were hard pressed to keep up with technological advances. As home to expeditionary forces, special operations, aircraft groups and various other service-related professionals, Camp Pendleton trains and sends forth the best of the best—combat-ready personnel.

Providing the best care for returning wounded, ill and injured service members is one of the driving forces behind a committee to “modernizing base infrastructure and providing superior service and support,” according to the $453 million state of the art Naval Hospital Replacement Project that is taking advantage of resources from the American Recovery Reinvestment Act (ARRA) of 2009, which requires that construction projects earmarked for the massive effort be utilized within a designated period of time.

The newly-completed hospital will be delivered on-time and on-budget. The entire 847,000-sf, 1,000-bed medical center will be designed and built utilizing the latest in medical technology. The final project cost is expected to be $900 million. The project, which includes all design and construction, was completed in 2012.

Bergelectric Corp. served as Project Manager for the award-winning Palomar Medical Center project. The hospital serves as the central hub for more than 20 states that rely on its 24/7 operations for hospital services and a variety of logistical challenges.

The collaborations among Berg and the mechanical and framing/drywall contractors have been instrumental in meeting the three-year construction schedule. “I’ve never had a better experience in my life—period,” Wise proclaimed.

"Focused on the mission and locked in step, we shared our resources, mentored each other and utilized each team member’s expertise, the entire team worked synergically and focused on the mission at hand. Delivering the most technologically-advanced medical facility for our military men and women who sacrifice so much for our freedoms was well worth it," Wise added.

"I remain in continuous awe of the efforts of a world-class team working together to build a world-class facility.”

Trust and Teamwork Collaboration

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The award-winning Palomar Medical Center has been called the "Hospital of the Future." Pride outing at BRI. Pahlomar Medical Center, Escondido, CA

As the design-assist electrical contractor, Berg electric is honored to have played integral role in the construction of the $956-million “Hospital of the Future,” Palomar Medical Center, which is voted as “One of America’s Best Health Care Projects and Best Project of the Year” by ENR California.

The award-winning Palomar Medical Center has been called the “Hospital of the Future.” Pride outing at BRI.
$75-Million UC Davis Student Housing Project Targets LEED Platinum

True to its well-deserved reputation as a global trailblazer in sustainability-related research, instruction, projects and programs, the University of California at Davis campus has embarked on a transformative student-housing project that will be the poster-child for sustainable living. The human values that UC Davis is committed to—‘caring and personal relationships,’ as well as ‘collaborative and thoughtful work’—are some of the same principles driving the $75-million design-build of the campus’ latest endeavor—Tercero Student Housing Phase 3 (TP3).

Under the guidance of Sundt Construction and architect Eschrich Homsey Dodge & Acheson (EHDA)—the worldwide leader in design of net-zero energy projects—the 321,300-sf complex is already taking shape. In addition to serving in a design-assist role by working collaboratively with electrical engineer Quatman & Bisner, Bergelcic has been able to help accelerate the project through the implementation of an intensive design-review process and phased construction. By designing the phases concurrently and starting construction before 100% drawings were complete, our crews were already mobilized on-site—performing deep-underground and underground electrical installations—prior to this winter’s rainy season arriving, noted Bergelcic Superintendent Chris Nelson.

Bergelcic had helped to accelerate this $75-million UC Davis Tercero Student Housing Phase 3 project through an intensive design-review process and phased electrical construction.

The Power to Deliver Full Service

With the critical assistance of General Foreman Larry Jennnings and Detailers Randall Kalt, Pointe’s Arts & Entertainment, an in-house prefabrication crew under Bergelcic’s direction, was commissioned to fabricate all MEP trades tasked with working in an extremely limited interstitial space within the buildings’ ‘halway, as well as assisting with a seamless workforce.

Electrical site infrastructure for the complex includes distribution of 15 kV to new customer-owned pad-mount utility transformers designed to help bring EEIH’s vision of the site live and achieveable LEED’s budgetary consideration. Additional new infrastructure includes 480-volt and tel/data service to each of the seven buildings, as well as emergency-power generators to service complex life-safety requirements. To keep the University on the cutting-edge of technology and security, Bergelcic is also providing field-data, fire-alarm and access-control systems in each of the seven buildings, as well as audio/video for a 250-seat lecture hall located within Building 2.

Advancing Sustainability Goals

Seeking a LEED Platinum certification, the four-story buildings will be home to near 1,200 power-savvy students. To help advance the university’s LEED goal, LED site lighting was incorporated into the design to reduce energy consumption and long-term maintenance costs. ‘Adding to the energy savings are efficient light fixtures with optimized flood levels and lenses that increase building electrical loads by providing sufficient light for occupants—all in all the team expects to exceed California Title 24 energy-efficiency standards by 57%,’ noted Tercero Superintendent Glenn Arnes.

A major contributor to TP3’s ability to meet UC Davis’ sustainability goals is the electrical system developed to determine energy loads for each building. “We designed a system that provides per-building-matching for each of the six-story buildings total energy demand, as well as monitored points along the electrical distribution system—ultimately enabling calculation of all building loads through a deductive sum for other loads that are not specifically metered,” explained Berg Project Manager Stacy King. “The collected information is fed back to the campus NCAA/Determinant Control and Data Acquisition System via a dedicated network access module (NAM) at each building’s main meter,” King added.

When completed in 2014, this model for sustainable living will not only serve as a flagship for good environmental stewardship, it will also fulfill another UC Davis guiding principle—advancement of the campus community.

Walkable Urbanism

How Bergelectric is Contributing to Denver’s Vibrant Downtown

Eclectic. Exciting. Energetic. Environmentally-friendly. These are just a few of the many attributes that describe the vibrant urban core known as Denver Downtown. As Denver’s Main Street and the City of High City, it’s named by the Hams Poll in the US city where people want to live. During its annual State of the City address, Denver’s Mayor Hancock emphasized “quality of life, transportation options, walkable urbanism and its... growing rental market” as primary magnets attracting talented professionals to the area’s eight distinctive districts.

From sports venues and mixed-use developments to luxury apartment communities and a massive federal office-building modernization, Bergelectric is impacting Denver’s reinvention. "It’s exciting to be a part of a $12.5 billion investment in both public and private development that is generating a renaissance in the Downtown Denver economy," stated Bergelcic Colorado Regional Manager Alan Stout.

Let’s Take a Walk!

One Union Station

Located in the heart of Denver’s Central Business District, this sustainable office building represents a $140 million project. Designed for energy efficiency, fire protection, and energy conservation, the facility will accommodate many well-known tenants. By participating in a $30-million scoreboard-improvement program. With the assistance of 320 Bergelectric teams, led by the manpower of the local Denver service department, were working around the clock—taking care of underground electrical and electrical installations during the full electrical buildout of this 10-story luxury apartment building, Bergelcic crews took particular care in coordinating with our 40-day construction period allows for four 34-hour airport operations shutdowns on the site lighting was incorporated into the design to reduce energy consumption and long-term maintenance costs. To—“caring and personal relationships,” as well as “collaborative and thoughtful work”—are some of the same principles driving the $75-million design-build of the campus’ latest endeavor—Tercero Student Housing Phase 3 (TP3).

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Fascinating Fact: Coors Field is a whole lot easier. Bergelectric is providing all electrical, lighting and fire-alarm systems, in association with the in-house prefabrication experts who assembled conduit racks in advance, Bergelcic installed the new scoreboard along with new electrical and fire-alarm systems, in association with the in-house prefabrication experts who assembled conduit racks in advance, Bergelcic installed the new scoreboard along with new electrical and fire-alarm systems.

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Las Vegas Field Maintenance Shop (FMS) — whether it’s within its own state or on a mission for the nation — they know that “the Guard does what is needed, wherever it is needed.” That’s the same philosophy Bergelectric is applying to the new Nevada ARNG Las Vegas Field Maintenance Shop (FMS).

Conveniently co-located adjacent to the ARNG Readiness Center, the FMS is set to replace the deteriorating 70s-era shop 10 miles away in Henderson. The state-of-the-art replacement facility, which is being built under the direction of general contractor CORE Construction, will provide field and sustainment support to serve the growing needs of more than 10 southern Nevada Army Guard units.

In addition to a separate vehicle wash area, the 42,746-ft² facility designed by Jacobs Engineering Group features maintenance bays, auto shops, military equipment storage areas and administrative offices. The maintenance operations are conducted on a variety of wheeled and tracked vehicles. Under the leadership of Supervisor Jack Zandt, electricians will be providing all building and underground electrical, in addition to fire alarm, tel/data and underground communications that are at the heart of the $23 million facility’s operation.

Focus on Cost and Energy Efficiencies

Ensuring that the FMS will be up-and-running during possible electrical outages, Berg crews are also responsible for the installation of a 1000 kW emergency-power generator. On a day-to-day basis, incorporating solar power in the Las Vegas FMS will reduce the amount of electricity required by local service provider NV Energy to run the facility.

Proving Dependable Power in Record Time

Berg Part of Team Delivering Data Center of the Future

Rising from the desert floor on a 57-acre parcel just east of Phoenix, AZ, it is the most powerful and potentially the largest data center of its kind in the country. Providing an unprecedented 120 megawatts of power capacity on-site, Bergelectric’s involvement included the delivery and installation of 16,800 miles of underground duct banks for the entire delivery process. By transferring the BIM drawings to Bergelectric’s Trimble® Total Station GPS unit, detailers were also able to define installation points for underground duct banks in advance in our preplanning and communications throughout the project. Detailers were able to produce productivity and keep the project moving at a swift pace.

Prefabrication: Enhancing Schedule Adherence

We couldn’t have maintained the aggressive schedule without the assistance of our in-house prefabrication department and our partnership with LA Technology Systems Group. We fabricated 90,000 feet of underground duct banks for installation,” added Bergelectric General Foreman Mike Faust. Due to their close proximity to the project, prefabrication news were able to assemble the underground conduit necessities and transport them to the project site as needed. Berg crews then both locally and from the remote production centers contributed their material and labor expertise to help deliver the Phoenix Data Center on time. To this end, Bergelectric made sure that CyruSone could provide 24/7 service and that the 90% uptime service level agreement, on top of their efficient and effective crew execution, was met.

Detailing: Preconstruction thru Project Delivery

During this time, research was also conducted on CyruSone’s existing facility, specifically the high-rise structural cooling tower system, which has the Gorden grid—that supports overhead cable and utility distribution specifically to enterprise colocation-data-center requirements. According to Preconstruction Manager Mike Slaven, “The use of BIM and other 3D tools to help visualize our vision and estimate, our innovative team, including Detailer Chris King from Las Vegas and Project Engineer Bruno Affolter, have utilized this technology to plan for future projects that would need to be manufactured to fit the Gorden grid and developed specific strictures to accommodate the system.”

In a design-assist effort with Harris Engineering—designers of the 195 kW photovoltaic parking canopy system—Bergelectric led in implementing nationwide experience in installing photovoltaic solar panels by offering recommendations for the most suitable equipment types including panels, inverters, collector bases and feeders, as well as alternative-installation methods. “We worked with designers of the solar system to facilitate an accurate and cost-effective design that would fit the needs of the State of Nevada Public Works Board, who is the customer, as well as the Army National Guard end-users,” explained Bergelectric Project Manager Nathan Searcy.

Bergelectric’s in-house capabilities enabled its Las Vegas office to offer other efficiencies to the CORE Construction team on the Nevada ARNG Las Vegas FMS project. These services were able to quickly and economically install redundant duct banks prepared in advance in our preplanning and communications throughout the project. It provided an early start and enabled the installation process to be completed by the deadline.

Once in the field, it was full-time Onsite Detailer Dominic Lamarte’s mission to see that each of the components fit like a glove by coordinating all project drawings with all project participants. “This project was a collaboration between the project architect, design-builders, and owners who worked together to provide the latest technologies, with a common goal of promoting improved productivity, and providing room to grow,” said the new installation head only adds necessary expansion. It also provides enhanced conferencing spaces, spacious parking and a multi-functional workspace,” Rauer added.

Meeting Demand for MODERN HEALTHCARE

Delivering a New Hospital for Tech-Savvy Residents in Washington

From world-class fishing to award-winning wineries, the Tri-Cities area of southeastern Washington State offers an attractive quality of life in support of its strong science-and-tech-based economy.

In recent years, the City of Kennewick earned several distinctions from Forbes—notably No. 1 in Job Growth and No. 7 in U.S. cities with the highest concentration of high-tech workers—and continues to expand with hundreds of new homes and apartments coming on line. Along with the steady growth in population over the past decade has come an increasing demand for health care, prompting the aging downtown hospital that has served the area for 60 years.

Since 2007, Kennewick General Hospital (KGH) has been on a mission to identify funding opportunities that would allow it to upgrade and maintain its aging 23-year-old facility. A plan detailed by local experts and physicians,慈_managed by the Kennewick General Hospital Foundation. “We partnered with the business community and worked with local private and public employers to provide expansion and present a cohesive ‘One Berg’ to clients, vendors and the community.”

Conducting a well-orchestrated weekend move from the existing Costa Mesa facility, the team from Bergelectric’s Salt Desert Data Center Information Technology (IT) Division, working in conjunction with the LA Technology Systems Group, delivered the new network infrastructure and core systems necessary for tailoring the fire-alarm, access-control, CCTV, building management and voice-data systems, which proved to be a smooth construction effort.

In addition to providing utility service to the site and power distribution throughout the three-story building, Bergelectric also delivered temporary power for use during construction, as well as emergency backup generation by installing two 1,000 kW paralleled generations with provisions for a future third unit to maintain the hospital’s normal operation during any unforeseen outages. Bergelectric’s in-house detailers, including detailer Allen Smith will be leading crews in the installation of the raceways for systems critical to the high-tech, quality care local residents will receive at the new ground-up hospital.

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“Bergelectric’s first-hand knowledge of the KGH project over the past five years, their expertise in hospital work, and their SolidWorks expertise coupled with recent experience in the regional construction market—offered the 74-bed facility a smooth construction effort. In this project, Berg’s team delivered value into project-cost-saving pricing that provided details for any remaining gaps in the budget calculations as final design of the 74-bed facility neared completion. In a design-assist role under the direction of Bergelectric Project Manager Alex Yurchenko, Berg professionals are working hand-in-hand with Interface Engineering in providing value-adding options such as a comprehensive review of the lighting package, which will keep the budget-sensitive project on course and progressing to its 2014 completion.

Bergelectric crews will perform highly accurate in-site installations for inserts, raceways and conduits utilizing 3D layouts on Trimble® Total Station technologies. Supporting the work of the field crews, Berg-in-house detailers will provide BIM 3D modeling of electrical rooms and 1-lines, cable trays, cable trays and electrical panels to facilitate a smooth construction effort.

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Luxury Convention Hotel Meets Pent-up Demand for Accommodations

Perhaps the only thing that has held this mega award winner back from competing with a dozen other cities is achieving the nation’s largest conventions and meetings is a shortage of accommodations. That’s where one of the nation’s premier independent hotel companies, Berg Electric, comes into the picture. The city of Austin, which already owns and operates more than 20 other Austin properties, is developing the nation’s largest JW Marriott just two blocks from the downtown convention center. At 1,032,000 square feet, this luxury convention hotel designed by HKS, Inc., will rival anything competing metropolises have to offer.

Berg Joins Hunt-Hardin Team on $300-million Complex

"Our national resources and well-thought-out approach that includes meticulous materials management and prefabrication innovation really helped us rise to the top on this project," noted Berg Electric Senior Project Manager Jim Finch. Calling on the expertise of Estimating Manager Louis Wylie, Berg was able to help Hunt-Hardin identify constructability issues early in the bid process and also offer cost-saving national buying power for the hotel’s extensive decorative-fixture package.

Expertise in Remote Location Mobilization Provides Distinct Advantage

In the high-performance market, using prefabrication is a winning strategy. "Using prefabrication made a lot of sense for this project allowing us to own the projects from the beginning," said Berg Electric’s Bryan Texas Utilities (BTU) who entered into a long-term PPA on a 252-acre solar park being developed near the border town of Presidio.

With an estimated grand opening in early 2015, the $300 million JW Marriott Convention Center Hotel in Austin, TX, with its 2,000-room guest rooms, is already contributing to the City’s competitiveness in the national-conference marketplace. [...]
A message from the president/CEO

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In short, if a robust economy returns, Bergelectric has extraordinary resources in place that will allow our company to flourish. If a sluggish-economy persists, we can count on the fact that we remain innovators focused on productivity and efficiency and will continue to provide a high level of service to both our employees and clients. Many thanks to our loyal clients, employees and suppliers—together we have a bright future.

Documenting Means, Methods and Materials for “One Berg”

Documenting these best practices and sharing them companywide is being accomplished through the creation of the Bergelectric Photovoltaic Manual. The detailed manual features proven design procedures, improved methods, as well as prefabricated materials and tools for working smarter, such as PV-specific checklists, design-review tracking logs and commissioning guidelines.

With nationwide resources, commitment to advancing technologies, even-increasing expertise and vision for the future, Bergelectric is poised to be able to serve whatever alternative power needs its clients may pursue.

Although we think of converting light energy into electrical energy as a relatively new concept, the word photovoltaic (“PV”)—from the Greek word for light (“photo”) combined with the name of trailblazer Alessandro Volta (“volta”)—was first used in the late 1800s. In the 21st Century, as energy costs have soared along with a penchant for pursuing clean and safe energy, more and more opportunities to incorporate this alternative-energy source into environmentally-conscious projects are arising.

Bergelectric has also come a long way in both expertise and experience since its first photovoltaic project—a 231 kW installation at an administrative building in Southern California. Since then, this electrical contracting heavy hitter has installed equipment, incorporating the latest PV technologies to harness our sun’s energy, on dozens of projects from coast-to-coast. From the sunny shores of California to a forward-thinking Marine Corps base in North Carolina—and many points in between—Bergelectric’s installations are delivering over 65 megawatts (MW) of power, decreasing America’s dependence on fossil fuels to generate electricity and relieving problem-wielding energy production with a clean, renewable alternative.

New PV Projects Indicating of Increasing Scale and Magnitude

While most early photovoltaic projects undertaken by Bergelectric were in conjunction with other work being performed, the firm has developed a reputation in the renewable energy marketplace as a primary resource to clients pursuing large-scale stand-alone installations. At the Camp Lejeune Marine Corps Base, Berg crews installed approximately 20,200 solar PV panels that will reduce the 241-square-mile power training facility’s dependence on traditional power sources while also fulfilling requirements of the Energy Independence and Security Act of 2007 (EISA).

The recent selection of Bergelectric to provide services to general contractor Chevron Energy Solutions on a 10 MW solar installation on the Texas/Mexican border for SunEdison is testimony to the EVP top-tier-ranked electrical contractor’s standing as a key player in the growing alternative-energy arena. As Bergelectric President/CEO Tom Anderson reflected on the company’s expanding role, “Both the Chevron and Camp Lejeune assignments are indicative of the scale and magnitude of photovoltaic projects we’re participating in, which are contributing to Berg’s maturing as a national force in alternative energies.

Stronger, Faster, More Productive—Berg Developing PV Installation Innovations

PV installs are working at a rapid clip. Smart combiner boxes—which collect energy generated by solar panels and send it to inverters—are now being used to communicate with a common data-acquisition system so that power production can be monitored remotely at the string level, the same way inverters are typically monitored. Large central inverters are being replaced by string inverters and micro inverters to reduce space consumption and allow for shutdown of just portions of an array for service and maintenance. Systems are getting larger in general—300-watt modules are no longer uncommon in current installations.

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