



Plugged In

Enel North America Inc.'s Quarterly Newsletter

May 2009

Geothermal Technology + Enel Green Power

The Stillwater and Salt Wells
Geothermal Projects
Heat Up Northern Nevada



Stillwater Geothermal Project in Fallon, Nevada



Toni Volpe
President and CEO of ENA

From Left, Toni Volpe, President and CEO of ENA, U.S. Senator John Ensign, Nevada Governor Jim Gibbons, Commissioner Rebecca Wagner, Nevada Public Utilities Commission and Francesco Starace, President of Enel Green Power

Welcome to Plugged In A Message from Toni Volpe, President & CEO

Dear All,

Welcome to the May 2009 edition of **Plugged In**, Enel North America Inc.'s internal newsletter. I'm happy to see it return to provide you with company news, updates and fun features. This May issue focuses on geothermal technology and, more specifically, the exciting start-up of our Stillwater and Salt Wells Geothermal Projects in Fallon, Nevada.

Stillwater and Salt Wells are Enel Green Power's only geothermal projects in North America and have the potential to energize about 40,000 households in northern Nevada. A lot of technical know-how and hard work have gone into constructing and establishing both sites and I would like to thank everyone involved for their dedication and commitment to bringing this technology to ENA.

Geothermal power is perhaps the most complex of all the renewable technologies and entails deriving energy from deep within the earth. Our projects employ binary technology which uses two fluids: water and isobutane.

The process begins by drilling down into geothermal reservoirs or "hot spots" in order to extract the hot water located there. The hot water is then used to heat isobutane until it's a vapor. This isobutane vapor then drives the turbines. And because Stillwater and Salt Wells are closed-looped systems, the hot water used throughout the process is injected back into the dry desert earth after it has served its purpose.

Today, Enel has a competitive edge in geothermal technology and will continue to work with partners such as MIT and New England Research to improve techniques that will revolutionize the way we use geothermal resources to produce electricity.

In this issue, you will read more about the ways in which Stillwater and Salt Wells operate and the dedication ceremony on April 15 that introduced ENA's geo power to North America.

We also provide you with some highlights and pictures from this year's Supervisors Meeting and a host of other information that will keep you "plugged-in" to what's happening in ENA.

Sincerely,

Toni Volpe, President and CEO
Enel North America Inc.



A Message from Francesco Starace

President of Enel Green Power

To My Colleagues in North America,

It has been a pleasure working with you over the last six months to expand Enel Green Power's renewable energy footprint in the United States and Canada; especially through cutting-edge technology such as the binary systems employed at the Stillwater and Salt Wells Geothermal Projects.

I am confident that the key to Enel Green Power's current success has been the fruitful combination of our expertise and persistence in utilizing geothermal and other technologies as well as the strong backing we have received from federal/state governments, local communities and lenders.

This sense of open mindedness and willingness to invest in innovation reinforces my confidence in Enel Green Power's ability to grow our current technologies and create synergies including those between geothermal and solar power.

Enel Green Power has established and continues to develop geothermal projects in six countries: Italy, the United States, Chile, Nicaragua, Guatemala and El Salvador.

We pride ourselves in doing our best to be part of the community everywhere we go. We create jobs, directly address landowners needs, invest in the communities surrounding our sites and help to preserve the environment for future generations.

Renewable energy is at the center of the political and economical agenda of new U.S. Administration.

I am strongly committed to supporting the profitable and sustainable growth of Enel Green Power in North America.

I know you will keep up the good work in our pursuit of creating value and a sustainable society for all.

Sincerely,

Francesco Starace
President of Enel Green Power

New Compliance Hotline

Just dial **(888) 720-0157**

The Compliance Hotline is a new and beneficial tool that allows Enel North America Inc. employees to report a violation of any FERC, Safety /OSHA, Environmental and HR regulation as well as any company standard.

This tool should be used by employees when violations at their project are ignored, when there is a fear of retribution for reporting or if little supervision is provided by senior managers. Utilizing the Hotline does not replace standard operating procedures.

When employees call the Hotline they will be connected to a voicemail box. Employees should leave a detailed message about the issue they are reporting. All calls will be managed by Megan Beauregard, Associate General Counsel. Messages can be left anonymously, though some identifying information (such as the number called from) will be reported in the message.

Please call the Hotline for any of the following reasons.

- FERC Violations
- HR Violations
(Routed to Fran Collins)
- Environmental Violations
(Routed to Adam Sotirakopoulos)
- Safety Violations
(Routed to Adam Sotirakopoulos)



Salt Wells Geothermal Project in Fallon, Nevada

Embracing Geothermal Technology

Stillwater and Salt Wells Projects Dedicated in Nevada

Enel North America Inc. officially cemented its commitment to geothermal technology in the United States on April 15 with the dedication of the Stillwater and Salt Wells projects in Fallon, Nevada.

Featured speakers at the much anticipated event included Francesco Starace, President of Enel Green Power, Toni Volpe, President and CEO of ENA, Nevada Governor Jim Gibbons, U.S. Senator John Ensign (R-Nev.) and Commissioner Rebecca Wagner, Nevada Public Utilities Commission. Many landowners and local political figures were also in attendance.

"We are proud to be here today and share with our friends from Nevada, which is a leader in the use of renewable energy sources, a technology in which we are one of the main players in the world. With its century-old experience in Italy, Enel Green Power is today a driver of geothermal power in the United States, with a pipeline of advance-stage projects," said Starace.

Nevada joins other states like California, Utah and Hawaii as a leading producer of geothermal energy in North America. The State currently has 318 MW of installed capacity and continues to issue dozens of geothermal well permits for projects on federal, state and private land.

Stillwater and Salt Wells have a total gross installed capacity of 65 MW, enough power to meet the needs of approximately 40,000 U.S. households and avoid the emission of over 300 thousand tons of CO₂.

"Nevada is well positioned to take advantage of renewable energy; we're in a better position than any other state in the country. For rural Nevada, it's going to be a big deal to see these resources develop," said Senator Ensign.

Besides providing Nevada with significant amounts of clean renewable energy, these projects will have a positive economic impact by creating 25 permanent jobs for the next 30 years.

While under construction the projects provided more than 300 jobs. According to the Economic Development Authority of Western Nevada, Stillwater and Salt Wells will have an estimated \$4 million impact in the area.

In 1904, Enel began its long history in geothermal technology. That year the company conducted the world's first geothermal energy experiments in Larderello, Tuscany. Today, it owns 31 geothermal plants in the region and continues to operate, build and develop projects in Chile and El Salvador.

Enel is now working with the Massachusetts Institute of Technology (MIT) at the Stillwater project to explore the possibilities of combining solar and geothermal technologies in order to maximize output at geothermal facilities.

ENA's Annual Supervisor's Meeting

A Culture of Strong Leadership and Safety

For three days in March, more than 35 Enel North America Inc. supervisors from across the United States and Canada came together for the 2009 Supervisors Meeting.

The event is designed to reconnect supervisors with their resources in the ENA corporate office and update and review procedures that are vital to their job and safety.

Dan Pease, ENA COO, kicked the meeting off by highlighting the company's important core values: safety, environmental responsibility, regulatory compliance, non-hostile work environments and shareholder and stakeholder interest.

Pease stressed how each value helps form a solid foundation that ENA can build upon as the company grows and builds its reputation throughout the US and Canada.

"It's vital that our core values and mission be the backbone of everything we do. Both lead our employees to be good Enel citizens and provide the public with a solid idea about who we are.

"To sustain these values, it's up to us to keep ourselves, colleagues and workplaces productive and safe, while always being aware of the impact we have on the environment," Pease said.

Safety took center stage in the first two days of the conference; illustrating Enel's top priority of reaching the Zero Injury goal throughout the entire company.

Safety training included hands-on electrical safety and fall protection seminars. Safety Manager Adam Sotirakopoulos conducted a general safety seminar and presented new arc flash protection uniforms, which will provide employees with enhanced protection against electrical fires.

From compliance to procurement to TSG (Technical Services Group), supervisors also received comprehensive training and briefings on a variety of other topics, especially effective supervisor training. This interactive session, conducted by Sherry McLavey, ENA's recruiting and training representative, taught and reinforced how each supervisor can be a better leader, a stronger resource for employees and a more effective ambassador for Enel.

The meeting concluded with a presentation from Toni Volpe, President and CEO of ENA. Volpe's presentation included a thorough business overview of Enel S.p.A and information regarding the company's recent acquisitions and financial results.

Volpe also introduced and explained ENA's significant role within Enel Green Power and the abundant opportunities that our position within the division provides.

"There's no doubt that ENA is riding a wave of increased interest in renewable energy, which is very good for us."



Increased government resources to encourage the development of renewable energy and our position within the Enel Group itself is giving us the chance to diversify our portfolio and provide new opportunities for our employees," said Volpe.

How It Works!

The Closed-Loop Binary Cycle Power Plant

By Brad Platt, Director of Power Plant Development

Stillwater and Salt Wells are closed-loop binary cycle power plants. They have two operating loops (thus the name binary) which are the geothermal hot water and the process working fluid, isobutane.

Generally, binary technology is utilized when the geothermal reservoir temperature is below 350° F, and is predominantly water instead of steam. Higher temperature fields can produce the quantities of intense steam that can physically drive a turbine on its own.

With lower temperature resources, the hot water is pumped (pressurized) through a network of pipes and eventually reaches a series of heat exchangers where the heat from the water is transferred to the isobutane working fluid.

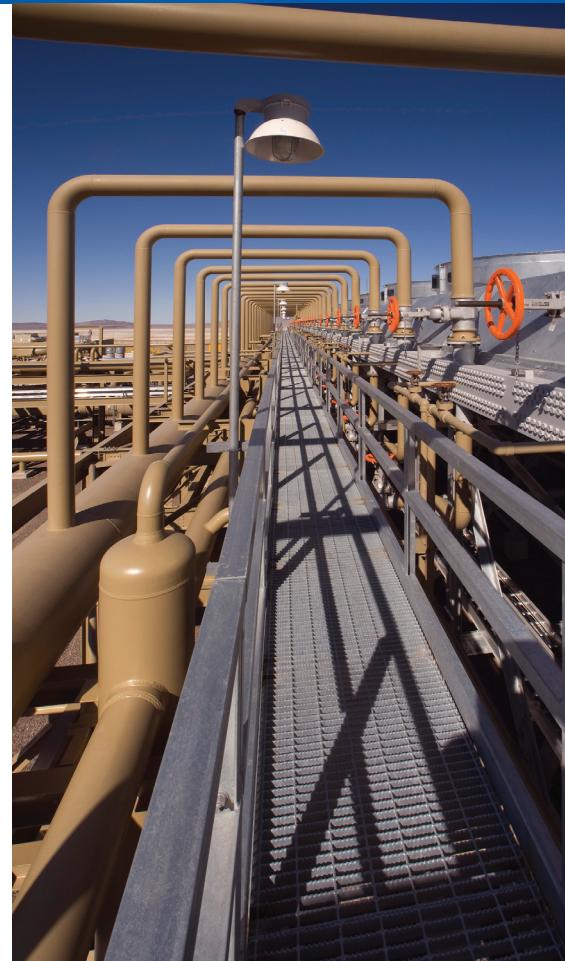
Isobutane is used because of its lower boiling point, so it can be heated by the geothermal fluid into a superheated vapor which is then directed to the turbines to make power.

The exhaust from the turbines is directed into air cooled condensers which condense the gas vapor back into a liquid. The liquid is then pumped again through the heat exchangers to complete the closed-loop process.

A key element of closed-loop binary plants is that the working fluid is not exposed to the atmosphere because it remains inside the closed-looped piping.

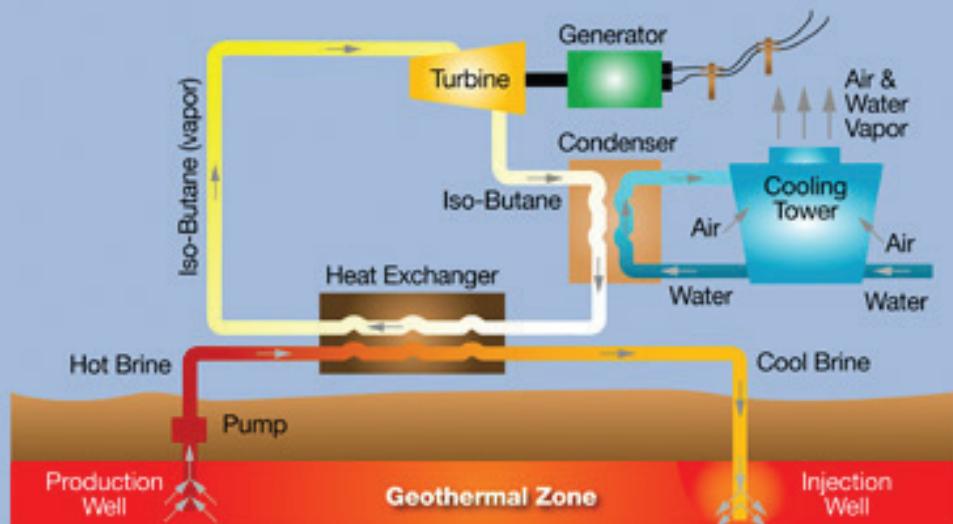
Therefore, there are zero purposeful emissions from the process. Also, all components in the power plants are air-cooled, so the plants consume zero water to produce power.

The zero consumption of water is also applicable on the geothermal loop. Once the geothermal fluid has passed through the heat exchangers, it is pumped back into the ground.



Binary Cycle Power Plants (ENA geo uses an air cooled system)

Binary Cycle Power Plant





U.S. Army Appreciates Enel's Own

Supervisor Clark Ackison and Project Operator John Morris Honored

On March 27th, Enel North America Inc. Supervisor Clark Ackison and Project Operator John Morris were presented with certificates of appreciation from the U.S. Army.

In January, Ackison and Morris provided a tour of the Summersville Hydroelectric Project in West Virginia to a group of maintenance employees from the Huntington District, U.S. Army Corps of Engineers. The tour was arranged in conjunction with the Corps' 2009 maintenance meeting.

The Army Corps of Engineers is a federal organization comprised of both civilians and military personnel responsible for

designing, building and maintaining locks and dams, protecting communities against floods and providing construction and engineering support to other branches of the military.

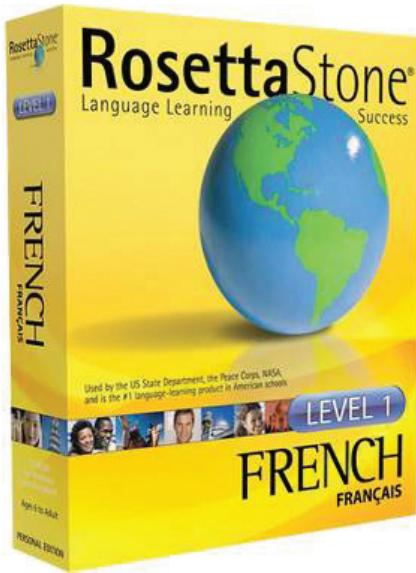
During the tour, Ackison and Morris explained the technical and safety aspects of the dam and powerhouse equipment. They also described the dam's fish stocking chute, a structure specifically designed to protect the fish during stocking of the Gauley River.

"Mr. Ackison/Mr. Morris explained how private industry can work with the Corps to generate power with little to no impact on the environment. [Their] knowledge,

professionalism, and skill contributed immeasurably to the success of the meeting, furthering knowledge of key maintenance employees," the certificate read.

In an impromptu and unexpected ceremony, Lt. Colonel Jason Smallfield presented Ackison and Morris with their certificates.

"This is pretty unusual and speaks to the quality of personnel we have running the Summersville project. I am proud of them," said Jim Fulmer, Asset Manager for ENA.



Learn The Languages of Enel

The New Rosetta Stone Benefit from HR

The ENA Human Resources Department is pleased to announce the availability of Rosetta Stone language learning software to all company employees.

Now employees have the opportunity to learn the languages of Enel including Italian, English, French, Spanish, Greek and Russian.

ENA is offering levels 1-3 in all of these languages so that everyone can further their personal knowledge and facilitate effective communications in this multi-cultural organization.

The interactive software engages new language learners in realistic scenarios instead of requiring strict grammar and vocabulary tests.

The voice recognition feature offers instant pronunciation feedback and doesn't move a learner forward in the lesson until his/her pronunciation is correct.

All programs can be taken at the learner's own pace. Taking advantage of this resource is optional and should be done on the employees own time.

Employees will need a computer with internet access, speakers and a microphone, either built-in or as a headset.

For more details please contact Sherry McLavey via email at Sherry.Mclavey@NorthAmerica.Enel.IT.

Welcome, New Employees!

January 2009

Tom Biro – Hydro Operator
Reginald Deal Jr. – Hydro Operator
Antoinette Greco – Staff Accountant
Jonathan Haffner – Hydro Operator
Scott Kushner – Business Development Analyst
Todd Simser – Hydro Operator
Robert Skinner – Treasury Assistant

February 2009

Chad Johnson – Hydro Operator
William Montgomery – Hydro Operator
Anthony Titus – Geothermal Operator

March 2009

John Bowers – Hydro Operator
Dwain Gotch – Health and Safety Engineer

April 2009

Bob Manasse – VP Business Development

Enel North America Inc.

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Plugged In is published for the employees of Enel North America Inc.

Please direct comments or feedback to the address above or via email at ca@northamerica.enel.it.