

Capital Communiqué



ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

<http://www.ashrae.ottawa.on.ca> **OTTAWA VALLEY CHAPTER** e-mail: contact@ashrae.ottawa.on.ca

2007 - 2008

March 2008

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EVENING PROGRAM

DATE: Tuesday **March 18, 2008**. Tech Session: 15:30 Social: 17:30 Dinner: 18:30
Program: 20:00
CLEO Banquet Center, 156 Cleopatra Dr., Nepean, Ont., (613) 224-8700

TECH SESSION 15:30
PWGSC Approach to Commissioning Session.
Presented by: Paul Sra, P Eng. Senior Engineer
Public Works and Government Services Canada

THEME: **TEGA/Program**

PROGRAM: **Ontario Building Code Update**

SPEAKER: **Judy Jeske, P. Eng.**

OVERVIEW: Judy will present some of the key changes of the 2006 Ontario Building Code including the reorganization of content, new compliance options, objective-based content, and key technical changes. Judy will provide background on the development of this new objective-based Code and provide some examples of how this new information can help designers. The focus will be on those changes which influence the design of building services. She will also present some of the more recent amendments to the 2006 OBC and the proposed changes open for public comment. Judy will also present some of the content changes found in the recently released 2007 Ontario Fire Code.

SPEAKER BIO: Judy Jeske P.Eng. is a Principal and Senior Fire Protection Engineer/Code Consultant with Morrison Hershfield Limited. Judy has 21 years of experience in fire protection engineering and application of Building and Fire Codes including 10 years with the Office of the Fire Commissioner of Canada. Judy works closely with Architects, Engineers, design teams and Authorities Having Jurisdiction to apply the Codes for new building design and renovations. She has extensive experience in development of alternative solutions using scenario and performance-based design, as well as mathematical and computer-based fire protection modeling.

Menu

Hot and Cold Buffet
Coffee and Tea, Assorted Pastries
Chapter Members: \$30.00 Guests: \$45.00



David Fanset
ACCOUNT EXECUTIVE

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President &
CRC Delegate



President's Message

By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

Hi Everyone,

I was recently working on a project and wanted to look at some pros and cons of two different design options. I decided to look on the ASHRAE website to see if I could find any insight there. Well, I found what I was looking for and then some. It turns out that if you are an ASHRAE member in good standing, you can access all the ASHRAE Journal articles from 1997 on (this is the link <http://www.ashrae.org/publications/>). By typing in a couple of key words, the ASHRAE search engine found five related articles on the topic I was interested in. Of course, this is a fantastic tool that will greatly help me provide better service to my clients, but the implications go beyond the business realm. I no longer have a reason to keep the (sadly) dusty piles of old ASHRAE Journals that are tucked into every spare nook and cranny in my house, in the off chance that I may need to find that one article that in reality I will never be able to find. By getting rid of all those old ASHRAE Journals, Rob's proverbial spousal cookie jar just got a little fuller ☺.

Each year the Chapter puts out a request to our members to submit projects for consideration for our annual Chapter TEGA awards and every year it is like pulling teeth trying to get people to submit. It shouldn't be that way. This is an opportunity for companies to showcase their engineering achievements to not only their peers, but potential clients. The submission for the chapter level TEGA Award is dead simple. Fill in the one page application form that can be found on our chapter web site here http://www.ashrae.ottawa.on.ca/ashraeoc_docs/TEGAAwardForm%202007.pdf, prepare a one page summary of the project with a picture (something you probably need to do anyway for your company promotional material), then send it in to our TEGA Chair, Tom Chiykowski (thomas.m.chiykowski@jci.com). That's it! The submission is not limited to consulting engineers either. Owners, operators, project management firms, performance contractors, etc... can all prepare submissions. Don't delay – prepare your TEGA submission today!

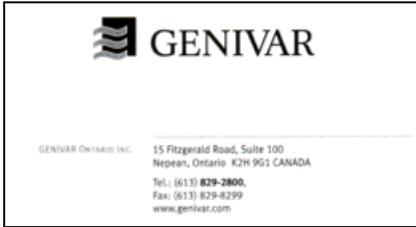
The Commissioning Seminar we are hosting on March 18th for the ASHRAE Learning Institute is quickly picking up steam. To date we have more than 30 people signed up for the event. If you are interested in attending, fill in a registration form that can be found on the chapter website here http://www.ashrae.ottawa.on.ca/ashraeoc_meetings/20080318/20080318%20Commissioning%20Seminar%20Invitation.pdf and send it in along with payment to our President-Elect, Francois Belair (fbelair@master.ca).

At this month's chapter meeting we are complimenting the Commissioning seminar with a talk from Paul Sra, senior engineer with PWGSC to discuss the federal government's approach for Commissioning. Our speaker for the main program is code consultant, Judy Jeske. If you have ever modified a life safety system in a building in Ottawa, you have likely come across Ms. Jeske or at least one of her reports. Ms. Jeske has a reputation in the City of Ottawa as one of the foremost experts on the Ontario and National Building Codes. Now that she has recently joined ASHRAE and our Chapter, her resume is complete. Ms. Jeske has agreed to highlight the main changes to the new 2006 Ontario Building Code.

I look forward to seeing you at the March meeting.

Yours very truly,

Robert Lefebvre, P.Eng., LEED AP
ASHRAE Ottawa Valley Chapter
2007-2008 President



President-Elect & CRC Alternate



What You Missed

by François Bélair, P.Eng.
2007-2008 President Elect

The evening started with a “hot” tech session on gas fired infrared heaters by Roberts Gordon. This presentation covered the basics of high and low intensity infrared heating including big words such as reflectivity, emissivity and stack loss. This was followed by applications, installation considerations and facilities where this technology is predominantly installed, before accepting questions from the attendees.

The meal and business session were efficient and overshadowed by a fantastic speech from the distinguished lecturer Mr. Ralph Kittler of Seresco. The evening’s topic was natatorium design (Indoor Pools for those not in the “biz”), a topic assumed, until 2 hours prior, to be a simple matter of humidity balance. The early portion of the presentation focused on the consequences of bad pool design which, in certain cases, has led to building failure from corrosion.

Ralph identified the key design points for every pool:

1. Space dew point
2. Vapour pressure for the pool and space
3. Pool evaporation rate; based on pool area, vapour pressure and activity occurring in the pool

The conversation moved onto fresh and exhaust air requirements, condensation control, tips for duct layout and vapour barrier requirements within the building walls. Although this last item is of architectural concern, Ralph encouraged all designers to discuss wall construction with the project architect as they require specific consideration due to vapour migration.

What I took away from the meeting; natatoriums are extremely interesting mechanical systems only to be challenged by those prepared to read the ASHRAE standard and enlist help from a full time professional. I also learnt that ASHRAE DL speakers should not be missed by anyone in our membership as Ralph Kittler exemplified; this is a title reserved for our industry’s best speakers.



Robert Gordon getting ready to present



Ralph Kittler receiving a big thanks from Robert Lefebvre.

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**Committee
Chair**



Membership

by Christine Kemp
2007-2008 OVC Membership Promotion Chair

New Members

ASHRAE Ottawa Valley Chapter would like to welcome the following new members:

- Andrew Bradley, Jason Van Gaal, Mark Sarasin, Matthew Edmonds, Marie Crowe, Mike Graham, Louise Boutin and Jason Vanbaal.

ASHRAE's YEA Leadership Weekend

This will be held Friday through Sunday, May 2 – 4, 2008 in Atlanta, Georgia.

ASHRAE Leadership Weekend includes segments on understanding your personality as well as other types, leadership development for young professionals, communication techniques and ASHRAE leadership opportunities.

Visit the website at: www.ashrae.org/yea - the registration form and the event schedule are posted in the Leadership Weekend section. Registration closes April 4, 2008.

Treasurer



Student Sponsors

by Jason Alexander
2007-2008 OVC Treasurer

The Ottawa Valley Chapter would like to thank the following individuals for sponsoring a student meal at the January meeting:

Joel Primeau of Genivar

As with all other monthly meetings, we encourage individuals or companies to support a student through sponsoring their meals.

Jason Alexander



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Partner/Mechanical Section Head
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Jack Teevens
Region General Manager

Governor



ASHRAE TEGA Awards

by Thomas Chiykowski
2007-2008 OVC Committee Chair

The TEGA (Technical, Energy and Government Activities) Award Program was introduced in the early eighties, during the energy crisis. Since that time, it has evolved from a narrow focus on energy into a program with a much broader scope that is today encompassing all aspects of technical knowledge found in ASHRAE literature.

The program is structured to operate on three levels: Chapter Awards, Regional Awards and Society Awards. At this time we are looking for submissions that would qualify for Chapter Awards. The Chapter Awards are given to an individual, or a team, for application of ASHRAE related technical knowledge to projects using an innovative design. A proposed project must be in operation but does not require detailed records.

Application forms for the Chapter Awards may be found on the Chapter website. They are not difficult to complete however they must be accompanied with a short description of the project, less than one page, and a suitable diagram supporting the description. Projects receiving the Chapter Award would automatically qualify for the Regional Award without additional paperwork. Regional winners will be recommended for the Society level Awards. Submissions for the Society level will require additional work.

We would like to have all submissions in by the end of March. Awards will be presented at either the April or May Chapter meeting. If you have been involved with projects that you think might be eligible please consider submitting an application form. If you are aware of a project please contact me and I would be pleased to approach individuals involved with the project.

The ASHRAE TEGA Awards are a great way to promote your company and to share designs with colleagues that will ultimately benefit all of us. If you have any questions regarding the awards or if you require assistance please contact Frank Vaculik, Bob Kilpatrick or myself.

Tom Chiykowski



FRANK JEFFERIES, P.ENG.
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Stéphan Riffault, P.Eng.
Sales Engineer
sriffault@regulvar.com



Table Top Display

By Frank Bann, P.Eng.
Governor

One of this month's Table Top Displays will be presented by Patrick Albert from Breck-Mar.



Breck-Mar Sales and Service is pleased to announce that we are now the exclusive sales representatives for Cheminée Lining.



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Cheminée Lining started out as a sales company that provided customers with quality products and installation. Their manufacturing arose from the certitude that they could supply superior products and services at a reasonable price.

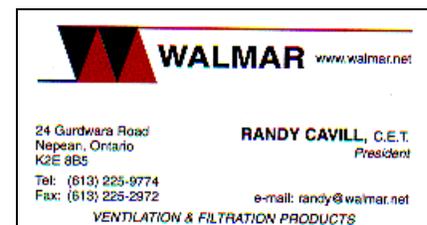
With more than 15 years experience **Cheminée Lining's** principles, based on business integrity, first class customer service, reliable delivery and engineering services, have established our reputation as a market leader for the supply of chimneys, grease duct and gas venting products.

Our mission at Breck-Mar is to provide complete customer service for our clients, from the design stage through warranty issues. We include as our customers: design engineers, mechanical contractors, government facilities and building owners.

Between Breck-Mar's quick responses and excellent customer service combined with Cheminée Lining's high quality product, we will be able to answer any of your Chimney needs.

Please come to our table top during the March ASHRAE Meeting and meet the manufacturer. We will have some of our samples on display for you to see.

(cont...)



John Lowery, P.Eng.
Senior Territory Manager



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This month's Table Top Display will also be presented by Micheal McNamara from METHOT.

METHOT



METHOT will be presenting the following manufacturers:

1. Aerco : condensing water heater and boilers.
2. Buderus : condensing & low temp. cast iron boilers.
3. Unilux : Bent water tube boiler.
4. York Shipley : Firetube boiler.

See you on the 18th of March!

Yours truly,
Michael McNamara.



Steve Clayman
Agent for Knauf Fiber Glass GmbH

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The Energy Conservation People



The Commissioning Process for New and Existing Buildings

by François Bélair
2007-2008 President Elect

DATE: March 18th, 2008
TIME: 8:30am to 3:30pm
LOCATION: CLEO Banquet and Convention Centre, 156 Cleopatra Drive, Ottawa

Course Outline

- I. Introduction
- II. Benefits of Commissioning in New and Existing Buildings
- III. The Commissioning Process in New Buildings
- IV. The Commissioning Process in Existing Buildings
- V. Documentation Requirements
- VI. Specifying Commissioning
- VII. Economics of Commissioning

Course Description

Attend this course and learn how the building commissioning process can be applied cost-effectively to new construction and to existing facilities, with a strong emphasis on existing facilities applications. In this introductory course, you will learn the fundamentals of the commissioning process through each step of a new construction project from pre-design to occupancy and operations. You will also learn how the application of the commissioning process in existing facilities differs from new construction. Learn about the benefits of commissioning and gain an appreciation for how the process can improve the built environment, reduce environmental impacts through responsible resource utilization, improve the quality of design and construction, and raise the professional reputation of the entire commissioning team. We will discuss commissioning documentation, including an overview of commissioning specifications for new construction. You will take away compelling information and case studies that demonstrate the value of investing in the commissioning process.

Documentation

Each attendee receives a copy of [ASHRAE Guideline 0-2005, *The Commissioning Process*](#).

Speaker Bio

Rick Casault, P.E., CCP, CDT, is the president of Seattle-based Casault Engineering, founded in 1994. He provides new building commissioning services from planning through occupancy, retro commissioning services for existing systems, and building commissioning master planning. He has commissioned hospitals, offices, greenhouses, libraries, corrections facilities, performing arts centers, teaching and research lab facilities, boiler plants, and schools. Previously, he led the development and implementation of the University of Washington's building commissioning program. He also designed and managed mechanical systems at a consulting firm, and worked as a journey-level railroad freight car mechanic.

Rick was the founding president of the Building Commissioning Association; recipient of the 2002 Benner Award for outstanding achievement in making building commissioning "business as usual." Rick is a member of ASHRAE Technical Committee 7.9 "Building Commissioning;" member of ASHRAE Guideline Committee GPC-1R, Guideline 1-1996, "The HVAC Commissioning Process;" and member of the NIBS Steering Committee for the Total Building Commissioning Guideline. He is a BCA Certified Commissioning Professional, licensed mechanical engineer, and CSI Certified Document Technician. He writes, teaches and speaks frequently about commissioning in the US and abroad.



Richard Casault, P.E., CDT (Casault Engineering)

If you are interested in participating to this event, please fill the registration form found [here](#).

For immediate inquiries or to be added to the distribution list for this event, please contact Francois Belair, fbelair@master.ca or P: 613-829-2816.



COGENCanada Annual Conference

by Rod Potter
Governor, Chapter Historian, Gopher and Webmaster

COGENCanada Annual Conference featuring Cogeneration (CHP), Gasification, IGCC, Polygeneration, Clean Coal Technology and Eco Industrial Networking will take place in Edmonton Alberta, 6, 7, 8 May 2008.

You can read all about it at their website: www.cogencanada.org/edmonton1007.htm.

Cogeneration (CHP) is increasingly being recognized as a key component of the global strategy to address climate change. In Canada, federal and provincial governments are establishing regulations to reduce the emissions of greenhouse gases. A key challenge is how to provide appropriate incentives for cogeneration, waste heat recovery and distribute generation to achieve the full benefits offered by these energy sources. This conference will provide access to the latest information on how Canadian and international governments are promoting cogeneration and distributed energy development through supportive regulations and policies.

Speakers include key federal and provincial policymakers, experts in cogeneration and waste heat recovery systems, and international cogeneration analysts. Categories include:

- Ø European and US policies to promote cogeneration.
- Ø Treatment of cogeneration under the Alberta Air Emissions Regulation.
- Ø Treatment of cogeneration within the federal climate change and air pollution regulations.
- Ø Waste heat recovery and cogeneration within a national offset system.
- Ø Sources of technical and strategic business development support on cogeneration.
- Ø How, Gasification IGCC and Polygeneration can reduce dependence on Natural Gas.
- Ø Integrated Eco-Industrial Networks which save energy and provide economies of scale.



ASHRAE OVC – National Engineering Week

By Stephen Lynch
2007-2008 OVC Student Activities Chair

February 23rd to March 2nd was National Engineering Week. ASHRAE OVC made its appearance through volunteering at the Canada Science and Technology Museum to promote Engineering to young children, and teenagers through a K'Nex workshop. It is one of several efforts to reach out to our K-12 group as part of our region's effort to spread the ASHRAE cheer. After a marathon weekend of K'Nex assembling and disassembling, my fingers could not even hold a bottle of water

While we are on the K-12 matter; some of you have had workshops and/or "kids at work" days. Please, email me (stephen.lynch@rogers.com) and provide me with some of the details. Any effort that we make needs to be recognized and shared. It also, goes a long way in gaining more society points for recognition in our region and at society.

Unfortunately, I missed last month's communiqué. I really thought that as Chair of Student Activities I could take advantage of Spring Break, go to Cancun and spread the ASHRAE word. It is extremely hard to explain Standard 90.1 while performing a keg stand. I would like to acknowledge everyone's efforts in helping the Career Fair being another great success. In particular, Algonquin College and Carleton University are extremely impressed with our efforts and are helping us have a greater effect on the students. Special thanks need to go out to the BOG, Rod Potter, Georges Maamari, Glenn MacLean and our guest speakers; Paul Baker, Glenn MacLean, Christine Doyle from BOMA, and Joel Primeau.

The Ottawa Regional Science Fair is coming up Saturday, April 5th. I need 3 volunteers to help me work through the presentations and determine the special award honorees. As my French is somewhat limited, it would be great to have someone who is fluent to help assess the French projects. Please contact me if you are available to help.

As with all other monthly meetings, we encourage individuals or companies to support a student through sponsoring their meals. Please let the greeters at the front know that you would like to sponsor a student for the night. If you would like to sponsor student meals throughout the year we will recognize your contributions by issuing you a receipt for your investment in Student Activities, publish your name and/or company's name on our website, and include you in our list of previous donors in the Capital Communiqué

Thank you for your support,

Stephen Lynch

More student related information from ASHRAE:

Student Activities Resources

This is the key resource for material to promote ASHRAE. A lot of the materials available are in the trusting hands of your Chair of Student Activities. If you see anything you like or need please contact, stephen.lynch@rogers.com or call 613-247-7451.

- Student Membership Application
- Posters
- Brochures
- Videos (the 'Licence to Chill' video is a free download, for those of you who were mesmerized with it at the Career Fair)

Visit <http://www.ashrae.org/students/page/715> for more information.



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The Energy Conservation People

President & CRC Delegate



News Update

By Robert Lefebvre
P.Eng., LEED AP
2007-2008 OVC President

Technical News:

Proposed Standard for High-Performing Buildings Open for Public Review

February 28, 2008

ATLANTA – A proposed standard that will essentially define high-performing buildings in code-intended language is one step closer to completion. Proposed Standard 189.1, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, is now open for its second public review.

Proposed Standard 189.1 will provide minimum requirements for the design of high-performance new commercial buildings and major renovation projects, addressing energy efficiency, a building's impact on the atmosphere, sustainable sites, water use efficiency, materials and resources, and indoor environmental quality. It is being developed by ASHRAE, the Illuminating Engineering Society of North America (IESNA) and the U.S. Green Building Council (USGBC).

"This standard is an energy-saving stepping stone toward ASHRAE's goal of net-zero-energy buildings," says John Hogan, chair of the committee that wrote the standard. "This is a goal that IESNA and the USGBC support as well as partners in this standard's development. It also gives building owners or jurisdictions that voluntarily choose to adopt the standard a tool for constructing truly high-performing buildings that provide energy-efficient, safe and comfortable environments for occupants."

By applying the minimum set of prescriptive recommendations, Standard 189.1P leads to site energy savings ranging from 10 to 41 percent over Standard 90.1-2007, including plug and process loads and all other energy consumption for the building, with an average of 24.9 percent for all climates.

The proposed standard also provides indoor water savings of 35 percent for an office building and 26 percent for a multifamily building.

The indoor air quality criteria have been coordinated with ASHRAE's IAQ Design Guide (under development), and the commissioning criteria have been more-closely aligned with ASHRAE's commissioning guidelines.

The first public review generated 900 comments.

Proposed ASHRAE standards, guidelines and addenda to standards are available only during public review periods. To read the draft standard or to comment, visit www.ashrae.org/publicreviews. The public review began Feb. 22 and ends April 7, 2008.



John Lowery, P.Eng.
Senior Territory Manager

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Sustainability News:

APS Announces New Solar Power Plant, Among World's Largest

February 21, 2008

PHOENIX - Arizona Public Service Co. (APS) today announced plans for one of the world's largest solar facilities – a 280-megawatt (MW) concentrating solar power (CSP) plant to be built 70 miles southwest of Phoenix, near Gila Bend, Ariz.

The Solana Generating Station will produce enough energy to serve 70,000 APS customers when operating at full capacity. The plant will be built by Abengoa Solar Inc., and is scheduled to provide renewable energy beginning in 2011. Spanish for “sunny place,” Solana will not emit greenhouse gases and will provide APS with more solar electricity per customer than any utility in the U.S. The facility also would be the largest solar power plant in the world if in operation today.

“APS is committed to making Arizona the solar capital of the world and bringing affordable renewable energy to all our customers,” said APS President Don Brandt. “The Arizona Corporation Commission has challenged Arizona utilities to be leaders in renewable energy, and we are responding aggressively.”

Arizona Gov. Janet Napolitano praised APS today at an event announcing plans for the project. “This is a major milestone for Arizona in our efforts to increase the amount of renewable energy available in the United States,” the Governor said. “Arizona is leading the way in protecting our world for future generations through combating climate change, fighting for air quality and much more. This plant will offer Arizonans a clean and efficient source of energy.”

Brandt said APS chose Abengoa Solar because of its extensive experience constructing, owning and operating solar power plants. Abengoa Solar deploys CSP technologies across the world, including large-scale facilities under construction or development in the U.S., Spain, Algeria and Morocco.

Solana will employ proven, state-of-the-art technology that can both produce and store energy during the day, and then provide that energy for use by APS customers across periods of peak demand. APS will purchase 100 percent of the plant's energy output, pending approval from the Arizona Corporation Commission. The value of the produced energy will be about \$4 billion over 30 years.

Unlike traditional solar-photovoltaic plants, which use direct sunlight to produce electricity, concentrating solar power uses the sun's heat. Parabolic mirrors track the sun and focus solar energy on a heat transfer fluid. Once heated, the liquid converts water into steam, which turns the plant's turbines to create electricity. This technology allows the plant to produce more energy for customers than a traditional solar power plant which only produces electricity when exposed to direct sunlight.

Solana Generating Station will create about 1,500 construction jobs and, when completed, will employ about 85 highly-skilled technicians. APS and Abengoa Solar estimate the project will bring more than \$1 billion in economic benefits to the state of Arizona.

“We are pleased to locate this facility in Arizona and to work with APS. Our partnership is based on a bold commitment to power the future with clean, affordable solar energy,” said Abengoa Solar CEO Santiago Seage. “In addition to possessing 300 sunny days a year, Arizona provides a business climate that encourages collaboration and the types of technology and innovation required to build a project of this scale.”

Within the last 90 days, APS has announced two major solar projects. The Company recently announced that it has joined a multi-state consortium of southwestern utilities that have an interest in contracting for a separate 250-MW solar power plant. Should that project proceed to completion, APS customers will receive a portion of the energy from the joint development project, as well as all of the energy from the Solana facility.

The new solar plants, along with other renewable energy facilities, provide APS with an increasingly diverse array of energy resources. In total, these will help APS meet the Renewable Energy Standard set by the ACC in November 2006. One of the most progressive in the nation, the Standard calls for Arizona's regulated utilities to obtain at least 15 percent of their total electricity sold from renewable energy sources by 2025.

APS currently provides its customers with 131.5 MW of renewable energy, enough to power more than 37,000 homes. With the addition of Solana, APS will provide enough renewable energy to serve 100,000 homes. As APS' largest source of renewable energy, Solana will more than triple the Company's renewable energy resources. APS' green energy portfolio includes wind, geothermal and solar energy.

This article is based on a news release from APS.

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