

ASSEMBLY REQUIRED

December 2025

THE WATER COOLER

The PEPM Group would like to wish you and your family a wonderful holiday season.

PEPM had an incredible year, and it wouldn't have been possible without our amazing customers and partners. We would like to sincerely thank each and every one of you for your support.

We look forward to sharing another remarkable year with you in 2026.



PEPM Group Holiday Celebration at our Fayetteville office



The PEPM Group will soon begin work on a structural engineering project for data centers in multiple US locations. Our structural team will utilize multiple engineering programs, including STAAD, IdeaStatica, MathCAD and in-house programs, performing comprehensive structural analysis including FEA. The PEPM Group is a fast-growing engineering and project management company in Tulsa, OK and Fayetteville, AR. Highly specialized in protein/food process and oil gas/energy engineering, PEPM has completed multiple data center engineering projects for different clients over the last several years.

Please join PEPM Group in congratulating Brett Palmer, P.E., PEPM mechanical engineer, on successfully completing the Intermediate Ammonia Refrigeration Systems course through the University of Wisconsin–Madison. The course showcases Brett's expertise in refrigeration systems, emphasizing his ability to determine psychrometric state points for refrigerated spaces, evaluating performance metrics of compressors, evaporators, and condensers, and apply sound engineering principles to enhance the energy efficiency of refrigeration components and systems. Brett earned his certificate of completion by passing the course exam, demonstrating his commitment to advancing technical expertise in industrial refrigeration systems. His accomplishment highlights a strong understanding of ammonia refrigeration fundamentals and emphasizes PEPM Group's dedication to promoting safe, efficient engineering practices.



WE ARE HIRING!

For a long-term fulfilling career, a caring, encouraging, and respectful workplace, contact PEPM. Apply today at www.pepmgroup.com/careers

- **Senior Mechanical Engineer** (Fayetteville, AR), 10+ years of proven mechanical, plumbing, and HVAC engineering and design experience in the food and beverage facilities, strong understanding of USDA, FDA, OSHA, ASHRAE, and ASME codes, standards, and guidelines, strong understanding of specifications and excellent attention to detail, B.S. in Mechanical Engineering, PE in Mechanical Engineering
- **Senior Electrical Engineer** (Fayetteville, AR), 6+ years of electrical design work in industrial engineering, 4+ years of field experience, proficiency in designing, installing, and maintaining electrical systems required, proficiency in AutoCAD 2D AND Revit 3D for electrical system design required, B.S. in electrical engineering is required, electrical PE preferred
- **Project Engineer, Project Manager** (Tulsa, OK), 5+ years of proven work experience in engineering, oil and gas and energy business, 5+ years of proven work experience in project management in engineering, construction or fabrication, excellent time management skills to meet promised schedules, organization, planning skills, and attention to detail are a must, PE and/or PMP highly preferred, B.S. in mechanical engineering or related engineering field



AUTOMATION CAN HELP FACILITIES PARTICIPATE IN DEMAND RESPONSE PROGRAMS

Utility-led demand response programs have historically involved measures like remotely cutting off service to energy-intensive HVAC systems, or less reliable alternatives like asking facility managers to turn down or deactivate equipment.

That picture is changing as utilities move toward more sophisticated programs that leverage virtual power plants, or VPP, which supporters say could reduce peak electric load nationwide by 10% to 20% within a few years. As data centers and building HVAC electrification boost demand for electricity, demand response and VPP programs are among the fastest, lowest-cost options for adding capacity to the grid, enabling the generation of new capacity in a matter of months.

More sophisticated solutions like remote HVAC optimization services can reduce onsite workloads by 80% to 90% during demand response. These solutions are also more effective at shifting HVAC power loads while maintaining comfort, such as by pre-cooling interiors in the morning before scheduled demand response events in the afternoon and evening.

Automation can also save building owners money. Heating, cooling and ventilation account for about 40% of total energy costs in the commercial sector, meaning reductions in use can quickly produce financial benefits.

Original Article: Automation can help facilities participate in demand response programs: [FacilitiesDive](#)

WE WANT YOUR FEEDBACK!

!€ (Fon for feedback)

To ensure a great newsletter, let us know what you think! Your ideas and stories can make this newsletter a truly engaging experience. Send your suggestions to y Zhang@pepmgroup.com. *Your feedback is greatly appreciated and valued!*

GET PROPOSAL Have questions about MEP, CSA, industrial refrigeration, process design, architectural, or project management? Contact PEPM Group at y Zhang@pepmgroup.com, admin@pepmgroup.com, (918) 895-6766, or visit www.pepmgroup.com.



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IN THE KNOW...

December, the twelfth month in the Julian and Gregorian calendar, is named after the Latin word decem (ten) as it was the tenth month in the Roman calendar.

2006 NASA reveals photographs taken by Mars Global Surveyor that suggest the presence of liquid water on Mars

1990 British and French workers meet in the middle of the Channel Tunnel 40 m under the English Channel, marking a major engineering achievement

1968 Frank Borman, Jim Lovell, and William Anders become the first people to orbit the Moon aboard Apollo 8

1877 Thomas Edison turns the crank on his cylinder phonograph, having it say, "Good morning. How do you do? How do you like the phonograph?"

1791 Britain's "The Observer" is first published, the oldest Sunday newspaper in the world

1741 Astronomer Anders Celsius introduces Centigrade temperature scale

1612 German astronomer Simon Marius is the first to observe the Andromeda Galaxy through a telescope

Original Article: OnThisDay.com

