

17th Edition, September 29, 2021

September CFPP Project Update

Project Director Dr. Shawn Hughes reported to the Carbon Free Power Project Management Committee on Sept. 14 that progress continues on schedule for the nation's first small modular nuclear reactor project. It will provide firm, dispatchable, carbon-free energy to participants and help usher in a new generation of nuclear energy.



- Progress is being made on project subscription, with multiple utilities moving forward to determine possible participation.
- A revolving credit agreement with Bank of America Securities will provide project funds to continue critical development of the application to the Nuclear Regulatory Commission to build and operate the CFPP.
- CFPP, NuScale, and Fluor have developed a Framework Term Sheet to continue pursuing the project. The Term Sheet aligns with the existing development agreements and development process and provides final pricing for the development work. The final detailed Work Breakdown Structure will be delivered through the ongoing development process and fed into the definitive contracts. The Term Sheet commits all parties to negotiate in good faith towards definitive agreements based on its terms and a controlled process.
- Site work continues at the Idaho National Laboratory site to develop the Combined Operating License Application for the Nuclear Regulatory Commission.
- The current work includes access road improvements, including several layers of road base materials, leveling and compaction; mowing to provide access to borehole/well locations; final installation of temporary office

trailer and bore storage trailers; and installation of generators to support facilities.

- Other field activities at the site include mobilization of two drill rigs for well drilling, and two rigs for core boring. Mobilization has been completed for up to 45 site personnel for core boring and well drilling activities.
- Upcoming activities include a visit by NRC officials in October to observe drilling activities; meteorological data collection, and completion of core boring and well drilling by the end of November or early December.

September Board of Directors Reports

General Manager Report. UAMPS CEO & General Manager Doug Hunter recently attended Northwest Public Power Association (NWPPA) meetings and came away with some insights that he shared with the UAMPS board at the September board meeting. He said the major focus of discussions at NWPPA was on the need for dispatchable clean energy resources as fossil fuel generation is reduced and eventually eliminated.



Doug Hunter

Many utilities are recognizing that while wind and solar are great resources, and more must be developed, they need to be backed up with firm, dispatchable energy. More utilities are considering battery storage, but there are limits with current technology.

California is being “mugged by reality,” Hunter said, as overreliance on wind and solar have forced some utilities to ask the state to waive air quality and carbon standards so they can use more natural gas generation. Because of grid reliability problems, many homeowners all over California are purchasing home generators that burn gasoline or natural gas, adding to pollution and carbon release.

All of this holds important lessons for UAMPS in determining future resource portfolios, Hunter said. Developing additional renewable resources is essential, but they must be backed up with clean, carbon-free dispatchable energy from sources like the Carbon Free Power Project.

Government Relations Report. UAMPS government relations director Mike Squires reported to the board that while things are chaotic in Washington, D.C., leaders and members of both political parties and the Biden administration support funding for next generation nuclear projects.



Mike Squires

Members of Congress are promoting a number of proposals to promote clean energy in various bills, some of which could negatively impact UAMPS’ fossil fuel generation. That’s one reason it is important to continue to replace fossil fuel generation with clean resources.

Industry Information & Developments

[Nuclear Power is Key to Next-Generation Energy Needs](#) . (ColoradoPolitics.com)
Yes, the U.S. has made [excellent progress](#) reducing emissions by substituting natural gas for coal in power generation, and by dramatically expanding the role of renewables like wind and solar on the electrical grid. But the next phase of the energy transition will be tougher. We will need a wider selection of technologies, including nuclear, which already produces roughly half of the nation’s carbon-free electricity with very little fanfare.

But here’s the good news: Western states are leading a new wave of nuclear energy development . . . In mid-August, Xcel and NuScale Power — a developer of small modular reactors — [announced](#) they are exploring the feasibility of new nuclear projects. Xcel, which operates across eight states including Colorado, already owns two large nuclear plants in Minnesota.

[NuScale SMR Simulation Lab Opens in Idaho.](#)

NuScale Power [recently installed a new simulation laboratory](#) at the Center for Advanced Energy Studies (CAES) in Idaho Falls. The center is located roughly 50 miles east from where the company’s first commercial



NuScale Power's SMR Simulation Lab in Idaho Falls.

small modular reactor (SMR) plant is expected to be built and will provide users a hands-on experience in operating the company's SMR plant.

The new SMR simulation laboratory puts researchers and operators behind the computer screens of NuScale's virtual control room. It allows users to observe the power plant's responses based on their input and will help facilitate research into human factors engineering, human-system interface design, advanced diagnostics, cyber security, and plant control room automation. The reactor simulator can also be used for education, STEM, and public outreach activities.

[NuScale Power Signs Memorandum of Understanding with Energoatom to Explore SMR Deployment in Ukraine.](#) PORTLAND, Ore.--(BUSINESS WIRE)-- NuScale Power and the National Nuclear Energy Generating Company of Ukraine (Energoatom) have announced the two companies have signed a Memorandum of Understanding (MOU) to explore the deployment of NuScale Power plants in Ukraine. Energoatom is the Ukrainian state operator for the country's four nuclear power stations. This agreement is further evidence of growing international interest for NuScale's small modular reactors . . .

[NuScale Power Signs Memorandum of Understanding with Getka and UNIMOT to Explore SMR Deployment in Poland.](#) PORTLAND, Ore.--(BUSINESS WIRE)-- NuScale Power, Getka Group (Getka) and UNIMOT S.A. (UNIMOT) have announced the three companies have signed a Memorandum of Understanding (MOU) with business purposes including to explore the deployment of NuScale's small modular reactor (SMR) technology as a coal repurposing solution for existing coal-fired power plants in Poland.

"NuScale is excited to partner with Getka and UNIMOT on the potential deployment of NuScale Power plants in Poland," said John Hopkins, Chairman and CEO of NuScale Power. "The partnership between these three companies demonstrates the versatility and value of NuScale's SMR technology for a variety of applications. NuScale's SMRs are an ideal clean, reliable, and affordable energy solution to repurpose retiring coal fueled power plants across the Poland."

In Other News . . .



Doug Hunter joined leaders on the Colorado River to discuss drought impacts.

Doug Hunter Discusses Drought Impact with U.S. Senators on Colorado River Float Trip. UAMPS CEO & General Manager Doug Hunter participated in the river trip with Senators Mitt Romney (R-Utah) and Michael Bennet (D-Colorado), along with Manuel Heart, Chairman of Ute Mountain Ute & Ten Tribes Partnership; Utah Lt. Gov. Deidre Henderson; Gene Shawcroft, member of the Upper Colorado River Commission; and other representatives of tribal, governments, recreation, environment, and ranching interests.

Hunter said the purpose of the trip was to “bring together leaders from two important Colorado River drainage upper basin states to discuss this diminishing water resource.” The river and its reservoirs are very important for electricity generation. “Currently, Lake Powell elevation is only 35 feet above generation,” said Hunter. “The loss of this generation source would have a major negative impact on the power rates. A continuing drought will also decrease reliability of the system.”

He said the trip was worthwhile to develop relationships and understand all perspectives. “I believe that all participants gained insight on the Native American water rights on the river. I emphasized that we really don’t need top-down mandates, rather more solution discussions at the local level with federal and state facilitating. In all, just having the two states come together in a bipartisan manner was worth the trip.

If you have questions about UAMPS’ plans for a carbon-free future, please email them to jackie@uamps.com.