Distributed energy systems georgia

Distributed energy systems georgia

Dr. Divan also serves as Founder and Chief Scientist at Varentec, in Santa Clara, CA, and was President and CTO from 2011-14, leading the company as it developed its suite of innovative distributed real-time grid control technologies. Varentec is funded by leading green-tech Venture Capital firm Khosla Ventures and renowned investor Bill Gates.

I am pleased to welcome you to the website of the Georgia Tech Center for Distributed Energy (CDE). The electricity infrastructure has been the engine that has driven the world economy for over 100 years, and represents the most complex system built by man. While it started as a collection of disconnected and distributed microgrids, it quickly evolved into a centralized planned system, with overriding objectives of reliable and low-cost power for all. The system has served us well.

We are excited by the opportunity to develop and translate solutions that may define the new energy infrastructure of tomorrow, a system that we believe will be increasingly smart and distributed. Please contact us at CDE Info for further information on joining us as a student, a researcher, scientific partner or industrial partner.

Dr. Deepak Divan is Professor, John E Pippin Chair, GRA Eminent Scholar, and Director of the Center for Distributed Energyat the Georgia Institute of Technology in Atlanta, GA. His field of research is in the areas of power electronics, power systems, smart grids, and distributed control of power systems. He works closely with utilities, industry and is actively involved in research, teaching, entrepreneurship and starting new ventures.

ATLANTA, Jan. 31, 2022 /PRNewswire/ --Today, Georgia Power filed its 2022 Integrated Resource Plan (IRP) which sets forth a proactive, innovative and transformational roadmap for how the company will continue to meet the energy needs of customers, local communities and the State of Georgia for future generations.

Filed with the Georgia Public Service Commission (PSC), the 2022 IRPoutlines Georgia Power"s plan to thoughtfully transition its fleet to more economical, cleaner resources; invest in its transmission system to make it smarter and even more reliable and resilient; double its renewable and solar capacity; focus on energy storage solutions; and offer innovative energy efficiency programs for customers.

The company files an IRP with the Georgia PSC every three years to outline how it will continue delivering clean, safe, reliable and affordable energy to its 2.7 million customers over the next 20 years. As part of today"s filing, Georgia Power is proposing a comprehensive strategy to both transform Georgia"s energy sources and help to ensure that the state"s network of transmission lines and grid infrastructure continues to deliver reliable energy to Georgians - both today and in the future.

The company is also planning to double its renewable generation by adding 6,000 MW by 2035, which includes a request for approval of 2,300 MW* in this IRP. The new capacity would expand the company"s renewable resource portfolio to approximately 11,500 MW by 2035 as well as support the transition to cleaner, more cost-effective energy resources for customers.

Investments in Reliability, ResilienceGeorgia Power is continuously investing in the power grid to make it smarter and more reliable. The 2022 IRP outlines additional investments and plans to continue to enhance the reliability and resilience of the state"s electrical grid system, including a multi-faceted approach developed to address future reliability needs associated with the retirement of coal units. The company is calling for an integrated solution comprised of new generation and transmission assets aimed at meeting the long-term needs of the state.

"Providing customers with reliable service is at the center of our business and as we continue to transition our fleet and grow renewable energy that focus remains true. Looking to Georgia"s future growth and energy needs, we know that new and emerging technologies have the potential to fundamentally alter the way energy is created, transported and ultimately consumed. That"s why a critical component of our fleet and grid transformation plan involves leveraging new technologies," added Womack.