



EPRI AND 6 LEADING UTILITIES TO DEMO SSP'S ALL-SOLID-STATE MEDIUM VOLTAGE TRANSFORMER



DALLAS, Texas. June 07, 2023. Solid State Power LLC (“SSP”) is excited to announce the start of a 5-month demonstration program of its all-solid-state medium voltage transformer (“SST”) for the distribution grid.

The project will be run and managed by EPRI with the participation of 6 of the largest and most innovative utilities in the US: Xcel, ConEdison, AEP, Southern Company, SCE and NYPA. It will take place in EPRI’s Transmission and Distribution Test Facility in Lenox, MA.

The SST is an outdoor-rated, pole-mounted, single phase unit rated at 25kVA power level with 7.2kV AC primary and split 2x120V AC secondary output. The unit’s configuration reflects the most common size in the distribution transformer market. The SST provides automatic voltage regulation +/- 10% of the primary rating, addressing typical voltage spikes and sags on the distribution grid.

The testing program will focus on a number of areas including load capability, voltage characteristics, efficiency and thermal performance. The key objective of the program is to demonstrate the ability of the SST to operate outdoors under typical grid load profiles while also provide automatic voltage regulation, usually performed by separate hardware on the distribution lines.

Since the pandemic’s end, the US distribution transformer market has been experiencing acute shortages, longer lead times and increasing prices. Together with industry partners, SSP is progressing the commercialization of a cost-effective, next-generation transformer alternative for power operators.

About Solid State Power

Founded in 2020 in Dallas, Texas, Solid State Power has patented solid-state technology for use in medium and high voltage applications in the grid, renewables, data centers and EV charging. SSP is commercializing the world’s first medium voltage, all-solid-state distribution transformer together with major industry partners. For further details contact Plamen Jordanoff, CEO/Co-Founder at p.jordanoff@solidstatepower.net

About EPRI

Since 1972 EPRI has been the world's preeminent independent, non-profit energy research and development organization, with offices around the world. EPRI's trusted experts collaborate with more than 450 companies in 45 countries, driving innovation to ensure the public has clean, safe, reliable, affordable, and equitable access to electricity across the globe. Together, we are shaping the future of energy. For further information please email Bill Florence at wiflorence@epri.com