Bollettino Settimanale

| Lunedì 22 gennaio 2024 | Martedì 23 gennaio 2024 | Mercoledì 24 gennaio 2024 | Giovedì 25 gennaio 202 |
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| AULA CONVERSI ore 14.30 | | | |
| SEMINARIO INEN | | | |
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| Scalable Load-follow Nuclear Generators in Shipping Containers | | | |
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| Claudio Filippone (HolosGen) | | | |
| | | | |
| Holos is a distributable modular nuclear power generator with enhanced | | | |
| safety features developed by HolosGen LLC. Holos is optimized to | | | |
| produce anordable politicalit-free electricity and high-temperature | | | |
| production) with the safest melt-tolerant and proliferation resistant TRISO | | | |
| fuel. Holos nuclear fuel is segregated within replaceable reinforced fuel | | | |
| cartridges sealed at all times from factory to repository. This type of fuel, | | | |
| successfully tested for decades and qualified for commercial production, | | | |
| traps the fission products (solid and gaseous) within Silicon Carbide | | | |
| spheres with approximately 1 mm in diameter. Holos designs utilize this | | | |
| qualified nuclear fuel as it does not let radionuclides migrate outside of | | | |
| hasis accident scenarios including loss of coolant. At the end of the fuel | | | |
| cvcle, the fuel cartridges fit within licensed transport containers for interim | | | |
| and long-term storage with reduced deactivation and decommissioning | | | |
| costs. Holos power conversion system features application-specific | | | |
| configurations achieving high-efficiency thermal-to-electric conversion | | | |
| through an integral closed-loop Brayton power cycle that eliminates the | | | |
| balance of plant. Other configurations utilize an open-loop Brayton cycle | | | |
| installations Holos closed-loop and open-loop Brayton cycle | | | |
| configurations utilize components derived from commercial turbo-iet | | | |
| engines and gas turbines. Each Holos generator can operate as a stand- | | | |
| alone electric island at sites with no or weak power grid infrastructure and | | | |
| offer scalable 3-10 MWe with high-rate load follow capabilities. Holos | | | |
| configurations for special applications integrate the systems, structures | | | |
| and components forming an operational power generator fully comprised | | | |
| applications that do not require mobility and dimensions within the | | | |
| constraints of shipping containers, the power rating can be increased | | | |
| beyond 10MWe to match the deployment site and/or application-specific | | | |
| power requirements. Specialized Holos generator configurations can be | | | |
| airlifted for timely deployment to supply emergency electricity and | | | |
| process-heat to remote locations affected by natural disasters and at | | | |
| locations characterized by environmental extremes. Holos generators | | | |
| to satisfy watercrafts and space applications. Holos innovative design | | | |
| safety, technical and economic performance has been verified under the | | | |
| Department of Energy sponsorships and scrutiny from the U.S. National | | | |
| Laboratories and academic institutions. Holos provides a distributable | | | |
| power source with a design maturity validated at TRL6 (Technology | | | |
| Readiness Level), satisfying various applications' requirements with the | | | |
| satest modern nuclear tuels, sustainably, competitively, and | | | |
| synergistically with technologies sourced on renewable energy. | | | |
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