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SDG&E Solutions for Energy Resiliency

Society of American Military Engineers

Camp Pendleton Day

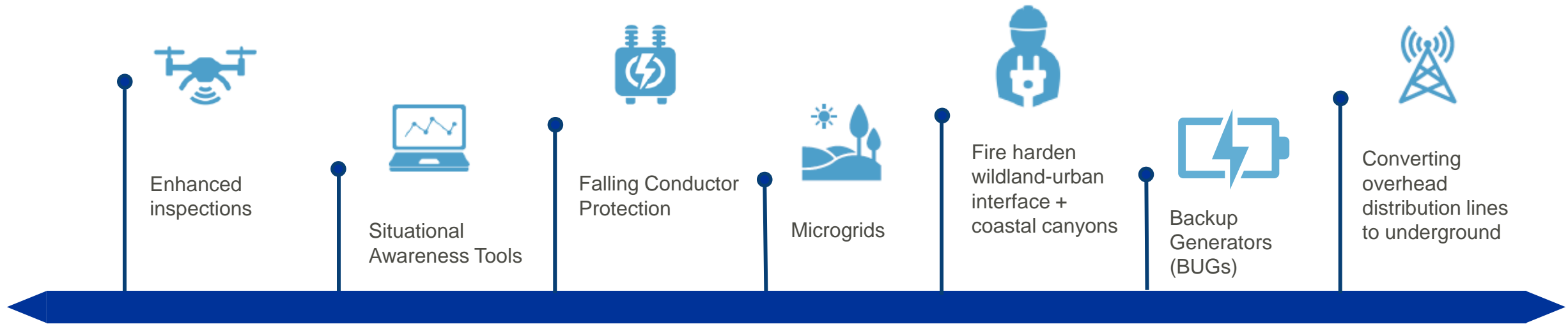
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Jenell McKay
Advanced Clean Technology Development Manager



SDG&E's Resiliency Tool Kit



- **Response to high fire-threat conditions and catastrophes** requires energy resiliency to maintain critical services.
 - **Energy resiliency** should include both flexibility and responsiveness.
- **Creativity, innovation and partnerships** are necessary to meeting today's energy challenges.

SDG&E's Microgrid Portfolio



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Microgrids can utilize diverse technologies to provide resiliency for our customers.

Borrego Springs	Cameron Corners	Ramona Air Attack Base	Butterfield Ranch	Shelter Valley
Desert community (far east San Diego County)	CAL FIRE Station, a school, and telecom switching center (east San Diego County)	CAL FIRE Air Support U.S. Forest Service Air Support Fire-retardant mixing stations	Desert community (far east San Diego County)	Desert community San Diego Fire Station Community Center (far east San Diego County)
Operational since 2013 with fossil fuel generators	Portable fossil fuel generator in place	Portable generator in place	Portable fossil fuel generator will serve customers this fire season	Portable fossil fuel generator will serve customers this fire season
100% Renewable targeted for year-end 2022	Renewable source completion in August 2021	Renewable source completion year-end 2021	Renewable source completion by Q1 2022	Renewable source completion by Q1 2022
Energy Storage + Solar + Hydrogen Fuel Cell	Solar + Flow Battery Energy Storage	Battery Energy Storage	Solar + Energy Storage	Solar + Energy Storage



SDG&E's Technology Diversity & Sustainability



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Energy storage technologies like lithium-ion, flow battery, aqueous technology, and hydrogen fuel cells to harness renewable energy and meet energy demands.

Mobile battery energy storage deployed as backup generators to reduce use of fossil fuel.

Piloting hydrogen in multiple applications: long-duration storage in a fuel cell, blending in combustion turbines and transportation fuel.

Thank you!



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