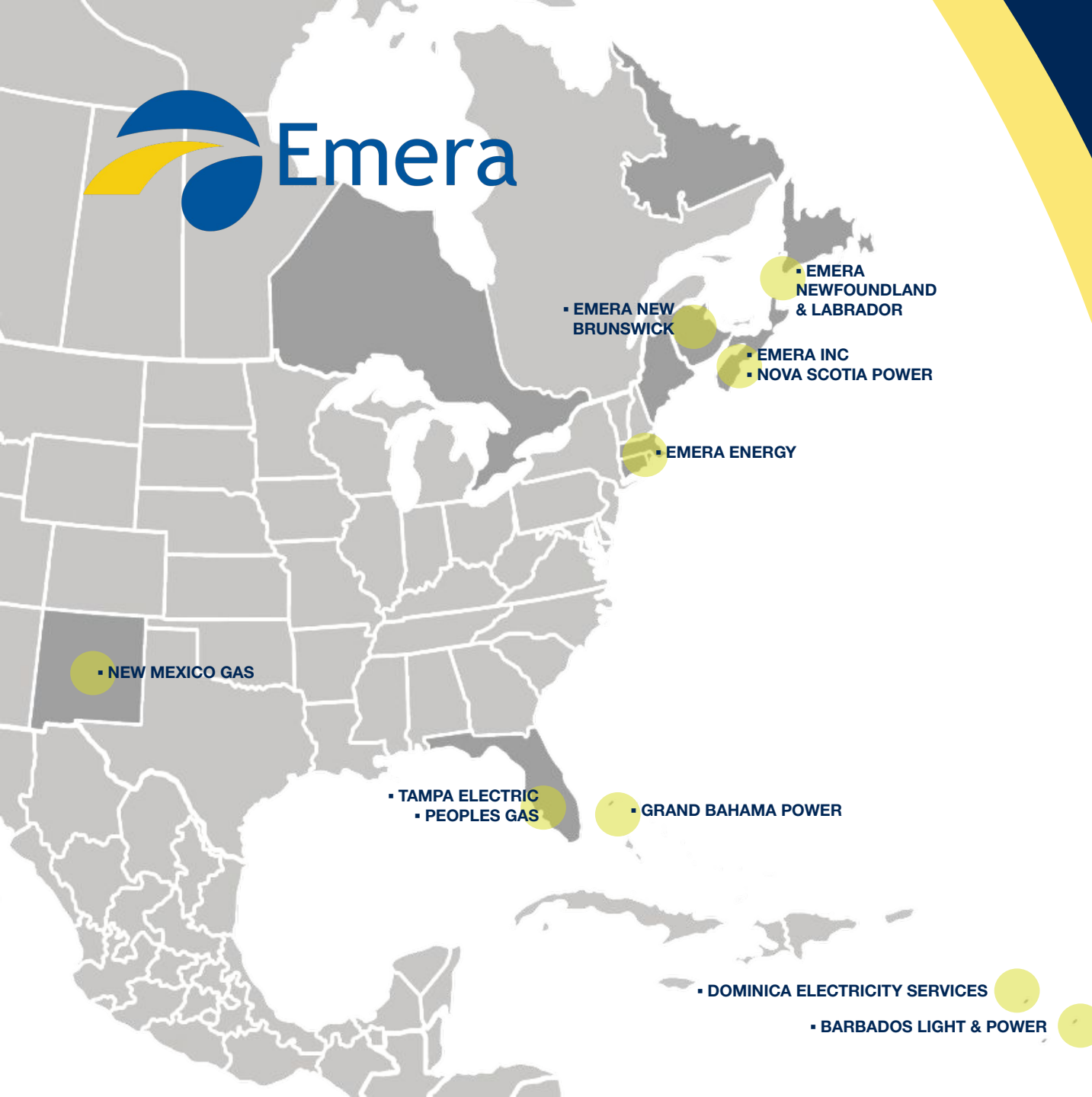




A CLEANER AND MORE RESILIENT POWER SYSTEM
FOR COMMUNITY DEVELOPMENTS





Emera Technologies

Emera, a \$32 billion energy company, created its skunk works division to understand the disruptive forces in energy and their impacts on the industry.

Business, residential, and military customers want cleaner and more reliable energy as we become more dependent on energy for daily and critical needs.

New technologies are opening transformational opportunities in the energy landscape.

Sandia is Creating the Future

- **Assuring** a safe and reliable nuclear deterrent
 - **Safeguarding** homeland and global security
 - **Creating** energy technologies of the future
 - **Enabling** a diverse and productive workforce

Exceptional service in the national interest



Challenges

DoD is the single largest energy consumer in the US

80
%

of total federal energy consumption



DoD is focused on ensuring military operations with ongoing efforts that enable resilient, efficient and cyber-secure energy for the joint forces, weapon systems and installations

New Mexico Can be a National Security Model

Leadership in Clean Energy, Water Security, Education, and Job Creation



RESILIENT ENERGY:

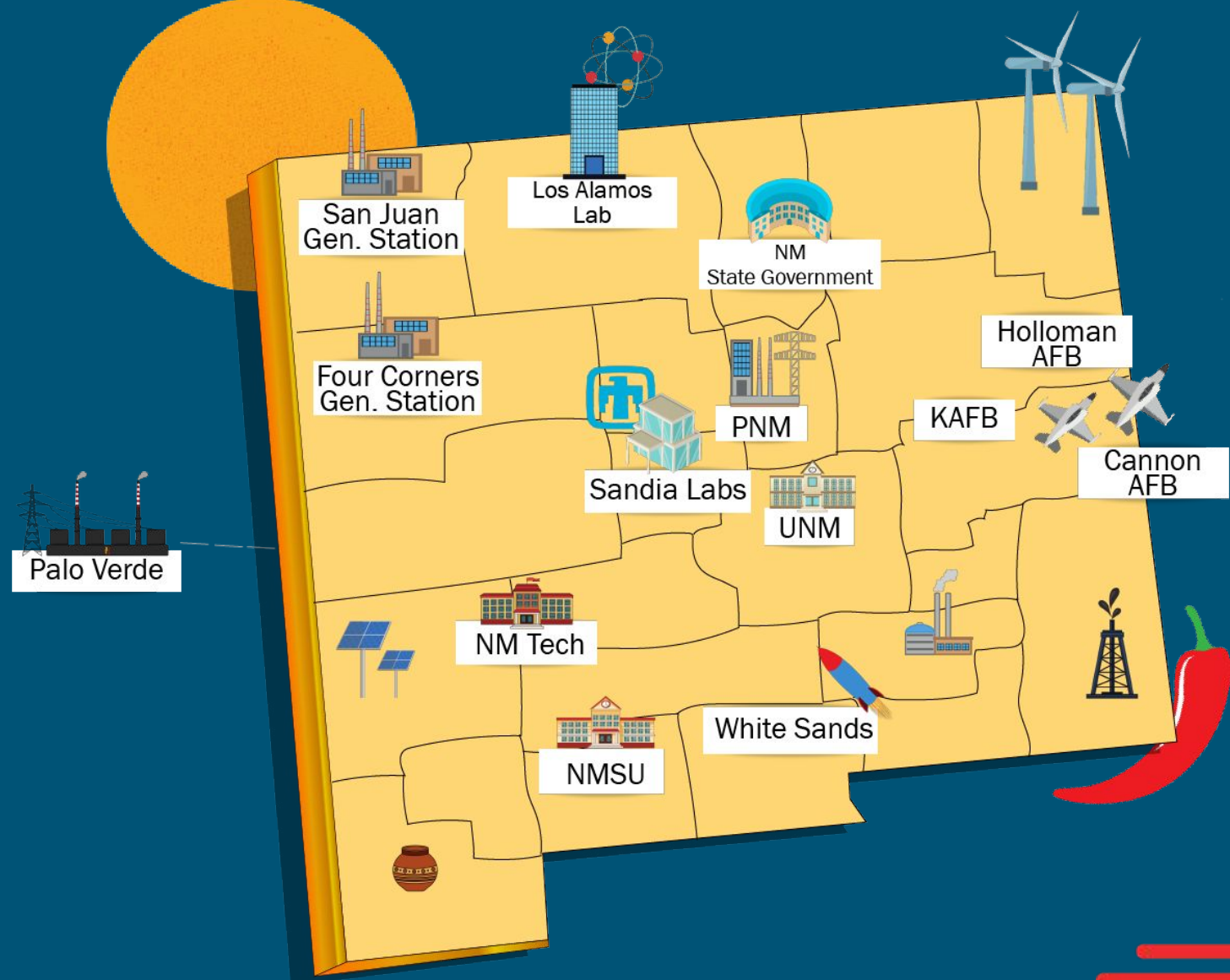
- Physical Security
- Cyber Security
- Energy/Resource Security

TECHNO-ECONOMIC APPLICATIONS:

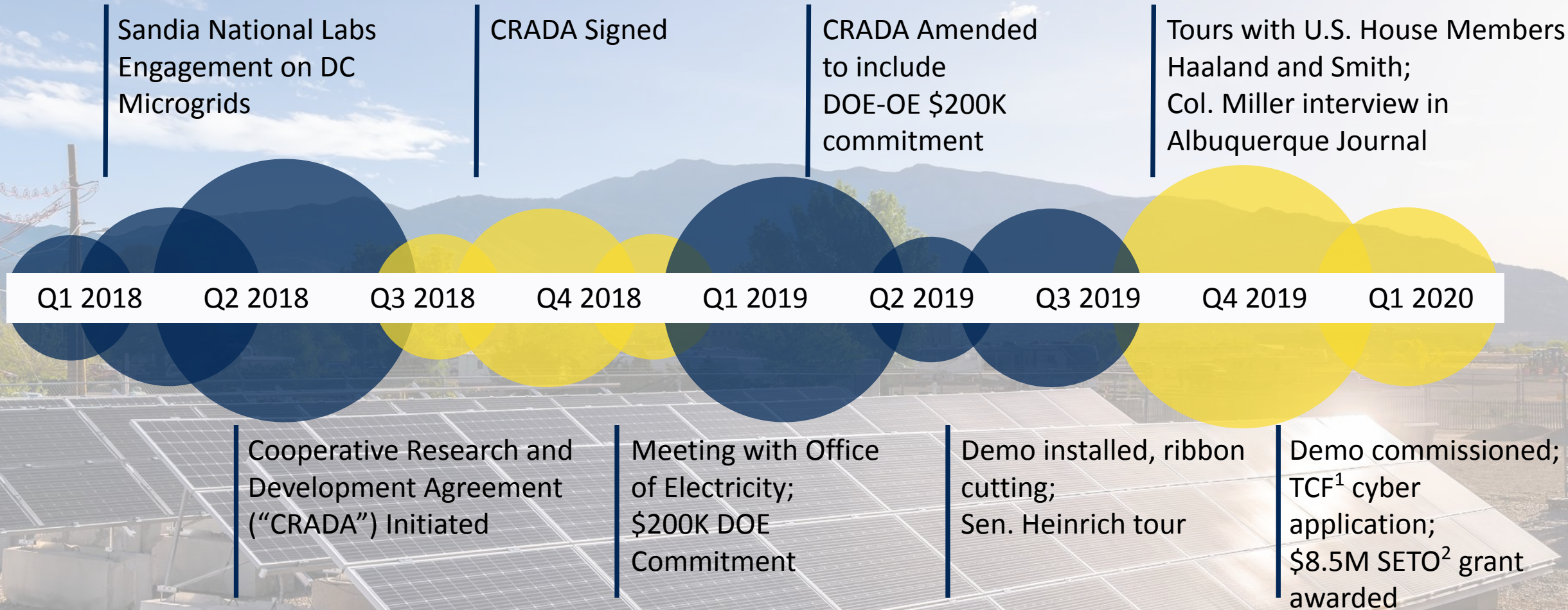
- Energy Storage
- Microgrids
- Blackout Recovery
- Fossil Retirement
- Renewables Integration
- Energy/Water Infrastructure
- Disaster Response (natural/human caused)
- Transportation
- Hydrogen

BUILDS ON SANDIA WORK:

- California
- Alaska
- Hawaii
- Puerto Rico/US Virgin Islands
- Texas



Military Interest is Robust



² Technology Commercialization Fund

³ Solar Energy Technology Office



Kirtland Airforce Base Resiliency Project

BlockEnergy launched eight months ago. The smart platform has operated without interruption, helping pave the way for a more resilient future.

BlockEnergy has also entered a Collaborative Research and Development Agreement (CRADA) with Sandia National Labs, (the country's energy thinktank). Sandia will be stress testing the resilience of **BlockEnergy's** system under various conditions such as lightning, fault conditions, and a sudden loss of grid power.

- 12+** Months of autonomous operations
- 12** Accelerated construction timeline (in months)
- 100** Kilowatts of installed rooftop solar
- 200** Kilowatt-hours of battery storage



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