



Defense Operational Energy Analysis

Solutions for Energy Research, Analysis, and Synthetic Experimentation



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CHALLENGES



CANA's clients require a deeper understanding of the operational improvements and cost savings that lead to operational efficiency and result in satisfied budgetary limitations and sustainability goals. Our tools and analytical processes are purpose-built for each project and supported by custom software solutions to help clients make informed decisions and address energy-related challenges.

SERVICES & CAPABILITIES



- Emergent Energy Technology Research
- Energy Innovation Reports
- Energy Network Assessments
- Stochastic Energy Process Modeling
- System of Systems (SoS) Analysis
- Energy Optimization Analysis
- Energy Simulation Packages
- Game Theory and Strategy Evaluations
- Energy Decision Analysis Support
- Course of Action Evaluations

PRODUCTS & OFFERINGS



Advanced Energy Research Toolkit (AERT)

A collection of constantly evolving tools, research techniques, analytical processes, talent, and expertise that CANA applies across the energy question space. This toolkit helps organizations both inside and outside of the DoD serve as energy thought leaders within their respective communities.

Boutique Energy Software Solutions

CANA projects bring a team of experienced developers dedicated to providing powerful, project-specific software and user interfaces designed to empower CANA analysts or the client's own project teams. We specialize in creating energy software for organizations of all sizes, purposes, and organizational reaches. CANA's software development team works hand-in-hand with our analytics professionals to create something that is useful and meets varying user needs elegantly and creatively, thereby streamlining user experience and informing critical energy-related decisions.

APPLICATIONS & RESULTS



Return on Value

CANA's value in the energy industry is data informed decision making. In uncertain/unstable industry conditions CANA's value increases by enabling intelligent investments and decisions that enhance operational efficiency, optimize resource allocation, predict future trends, and effectively navigate complex systems integration.



eTHOR

Agile, rapid deployment of a tactical 5G AWS network deploying and extending 5G's low latency, high bandwidth capabilities to the expeditionary force enabling unmanned systems, artificial intelligence, and all domain command and control.



OECIF AER

Development of a vehicle range model and a vehicle-to-grid-battery bank model. CANA wrapped both in a user-friendly dashboard, enabling forward base EV planners to quickly identify mission ranges and endurance limits for EVs under a wide array of planning factors. Separately, the dashboard informs users of the availability of EV battery power to back feed microgrids, thereby enabling more efficient use of generators.



BOSEC Analysis

The Balance Of Systems, Edge Compute (BOSEC) project centers on an energy economy model of edge computing capabilities related to AI-informed counter intrusion systems operating under varying warfighter conditions.





*CANA is a business technology solutions company
"Powered by CANA Analytics®." Our expertise
provides logistics systems integration, applied
analytics services & software solutions. CANA LLC
strives to create an environment that allows our
Team and Clients more time to focus on the things
that matter most.*



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