

At a glance

market spaces.

The CANA Energy Logistics &

Infrastructure Market focuses on

analytics, and program/project

and Commercial clients in the

research, modeling, simulation, data

management, providing solutions to

Federal, State, Municipal, Defense

energy logistics and infrastructure

CANA Energy Logistics Infrastructure (ELI)

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.

NEXUS

An Artificial Intelligence based solution that enables defense planning for unmanned systems against manned or unmanned multi-domain threats.

Synthetic Energy Insights Platform (SIP)

SIP is a cloud-based or native software solution that can intelligently manage power consumption for a single system, system of systems or network of systems.

SERVICES & CAPABILITIES



Energy Projects and

Productization

System Integration

Applied Analytics

Design Build

AI/ML

Software Development

• Basic and Applied Research

Program and Project Management



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.



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Energy Research, Analysis,

- System of Systems (SoS) Analysis
- Energy Optimization Analysis
- Energy Simulation Packages

APPLICATIONS & RESULTS



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

3

Greater understanding of the energy needs of the system and what factors have significant impact on the demand. Insights into the required energy availability at the edge of the battlefield.













Defense Operational Energy Analysis

Solutions for Energy Research, Analysis, and Synthetic Experimentation

Powered by CANA Analytics®

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

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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

eTHOR

1

2

3

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BOSEC Analysis

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



CANA

CANA Energy Projects, Products & Services

Powered by CANA Analytics®

AT A GLANCE

CANA's Energy Logistics & Infrastructure solutions focus on research, modeling, simulation, data analytics, and program/project management, providing solutions to Federal, State, Municipal, Defense and Commercial clients in the energy logistics and infrastructure market spaces.

SERVICES & CAPABILITIES

Energy Projects and Productization

- System Integration
- Software Development
- Design Build
- AI/ML
- Basic and Applied Research
- Applied Analytics
- Program and Project Management



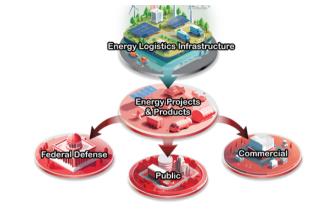
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PRODUCTS & CONCEPTS

Advanced Energy Research Tool Kit (AERT)

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NEXUS

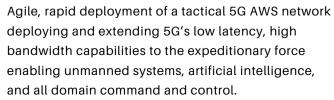
An Artificial Intelligence based solution that enables defense planning for unmanned systems against manned or unmanned multi-domain threats. NEXUS can stand alone as an energy-informed ISR analysis tool or integrate into applications including fires, intelligence, or force protection systems to provide an intelligent operational planning tool with respect to effects, cost, or energy.

Synthetic Energy Insights Platform (SIP)

SIP is a cloud-based or native software solution that can intelligently manage power consumption for a single system, system of systems or network of systems. Taking a similar approach to software defined networks, SIP can forecast or sense power consumption in real-time and make intelligent decision suggestions that allocate energy smartly with respect to urgency of demand, mission priority, and other user preferences.

APPLICATION & RESULTS

eTHOR





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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