



## ENERGY ADVISORY SERVICES

Today’s energy industry is increasingly challenged to maintain secure, reliable and effective delivery to its customers. While the use of energy continues to grow, the demand has remained flat, as new technologies and sources of energy – such as wind, solar and fuel cell alternatives – challenge traditional sources. At the same time, the demand for innovation and increased efficiency is changing generation and delivery networks across the country to include nontraditional approaches such as smart grids, renewables, solar energy and “net zero” building designs.

Dramatic changes in technology and threat profiles, expanding regulations, and population shifts are all driving necessary evaluation of and change to the cyber security environment for energy infrastructure. Cyber security architecture and solutions to protect America’s electrical grid are challenged by the confluence of aging analog technology and integration of networks and internet of things (IoT) devices.

Additionally, the volume of data collected and the method of collection (digital smart meters) present additional challenges for managing and protecting that data and also protecting potential entry into the grid through smart meters. This evolving paradigm is making it difficult to keep pace at the infrastructure layer. Establishing a Cyber security portion of an energy resiliency program is necessary to provide the systems and analysis necessary to succeed, such as:

- ▶ **Implementing a resilience framework and decision rights** to ensure effective use and reporting (create a standard reporting and distribution methodology) of information, enterprise-wide
- ▶ **Establish the proper processes, skills and tools** to manage threats and data throughout the lifecycle as a business asset
- ▶ **Laying out essential standards, rules and guidelines** for the cyber resiliency program

### ENERGY RESILIENCE – ARE YOU PREPARED?



**Dinocrates has a senior team of experts (former CIOs, CTOs, CISOs, and COOs) who have had direct experience with the energy industry, including:**

- ▶ Driving internal control sustainability and cost reduction through technology solutions for one of the largest electric power companies in the U.S.
- ▶ Implementing the cyber security program for large regional power company
- ▶ Working for a company developing fuel cell technologies for power delivery and energy resilience

**The Dinocrates approach is a holistic collaboration of cross-industry functional expertise rooted deeply in subject matter expertise in the energy sector.**

We start at the senior level of information governance around cyber security and include business leadership, business objectives and strategies and operational challenges. With a clear understanding of these goals, Dinocrates can advance your IT cyber security resilience program through the following services and activities:

**SAMPLE OF DELIVERED SOLUTIONS** 

**Cyber Security**

- Architectural Review and Recommendations
- Develop Risk Analysis Position

**Data Analytics**

- Review Data Reporting Methodology
- Develop Integrated Distribution Standard

**Improve Enterprise Information Management (EIM)**

- Data Management Analysis
- Data Utilization and Retention Standards
- Recommendations for Data Management

**Infrastructure Layer**

- Architectural Review and Assessment
- Provide Recommendations and Roadmap for Implementation

**Regulation and Compliance**

- NERC, FERC and State Regulatory Review
- Cross-Industry Reporting Review



**DINOCRATES CUSTOMERS**



**ABOUT US**

Dinocrates is a boutique strategy and technology advisory firm that partners with clients from the public and private sectors to identify their highest-value opportunities, address their most critical challenges, and transform their enterprises.

**CONTACT US TO LEARN MORE**

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