<table>
<thead>
<tr>
<th>Organization Name</th>
<th>Contact Person Name</th>
<th>Contact Information</th>
<th>Organizational Type</th>
<th>Topic Area(s) of Interest (1, 2, or 3)</th>
<th>Brief Description of Area(s) of Expertise</th>
<th>Brief Description of Capabilities</th>
</tr>
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<tbody>
<tr>
<td>CrossCompute Inc.</td>
<td>Roy Hyunjin Han</td>
<td>Contact Address: 445 5th Ave 17F, New York, NY 10016; Contact Email: <a href="mailto:contact@crosscompute.com">contact@crosscompute.com</a>; Contact Phone: +1-917-566-7004</td>
<td>C Corporation, Benefit Corporation</td>
<td>Topic Areas 1, 2, and 3</td>
<td>1. Software development of online decision support tools and map-based dashboards for community engagement, vendor procurement, spatial planning, simulation modeling, cost optimization of hazard mitigation projects such as microgrid site selection, battery placement, line undergrounding. 2. Software development of asset management and maintenance tracking systems to help replace assets before they fail using statistics, probability, benefit cost analysis. 3. Software development of data pipelines integrating feeds from real-time sensors for hourly production/consumption tracking and forecasting.</td>
<td>CrossCompute can build map-based tools and dashboards that help planners communicate the progress of a grid modernization project, win community support, negotiate easements with property owners and coordinate tasks between vendors. CrossCompute can also advise the development of data collection strategies and optimization models for advanced analytics that can extend the longevity of an infrastructure investment by replacing assets like transformers and reclosers before they fail.</td>
</tr>
<tr>
<td>Smarter Grid Solutions</td>
<td>Mary Jo Nye</td>
<td>Contact Email: <a href="mailto:mnye@smartergridsolutions.com">mnye@smartergridsolutions.com</a>; Contact Phone: 612-859-1821</td>
<td>Vendor of DERMS Software</td>
<td>Topic Areas 1, 2, and 3</td>
<td>Smarter Grid Solutions (SGS) is an industry leader and trusted provider of real-time DERMS and advanced distribution application/solutions to energy providers across the world. We use DERMS as a catch-all description, as we look at DER from all angles to ensure utilities and developers unlock the value of the DER, and that our solutions can scale with the enterprise. Our suite of products is autonomous and technology vendor agnostic, which makes it easy to aggregate, monitor and forecast, and address different distribution system use cases.</td>
<td>At a very high level, we are a system of systems company addressing real-time DERMS applications and use cases. Some of the use casesler are not an all-inclusive list include flexible interconnections, EVs, aggregation and monitoring of resources, integrations, real-time control, and curtailment, and monetization.</td>
</tr>
<tr>
<td>Whisker Labs</td>
<td>James E Anderson, VP Business Development</td>
<td>Contact Person: James E Anderson; Contact Address: 12410 Milestone Center Dr., Germantown, MD 20876; Contact Phone: (202) 302-7008; Contact Website: <a href="https://www.whiskerlabs.com/">https://www.whiskerlabs.com/</a></td>
<td>Private Company</td>
<td>Topic Areas 2 and 3</td>
<td>Whisker Labs (WL) is the maker of Ting, a sensor device that monitors the home to help prevent electrical fires. The Ting sensor network monitors the utility grid, documents power quality and reliability, and detects grid faults that can cause wildfire ignitions. The Ting network and its data are growing rapidly through significant investments by WL and insurance company partners that provide Ting to their customers. WL Ting data includes high-resolution information on voltage sags and swells, frequency, and harmonic disturbances. This data is valuable for a variety of use cases including wildfire prevention, the integration of DER assets, enhancing reliability and resilience of the grid, improving power quality and other applications, either for a utility or a third-party utility software and data service provider.</td>
<td>Whisker Labs has invested tens of millions of dollars in deployment of the network of Ting power quality sensors and digital signal processing, data collection, analysis and delivery mechanisms that may qualify as matching expenses under the grant program. WL specializes in home electrical system and grid scale network monitoring for the prevention of fires caused by arcing, and power quality problems associated with voltage, frequency and harmonic anomalies, and can provide utilities or utility software and data service providers a constant, high-quality data stream to integrate into utility operations.</td>
</tr>
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**Fend Inc**  
**Chris Escamilla**  
**Contact Address:** 4600 Fairfax Dr, Suite 410 Arlington, VA 22203;  
**Contact Email:** cescamilla@fend.tech;  
**Contact Phone:** (571) 970-1382 x707  
**Operational Technology (OT)/Industrial Control System (ICS) cybersecurity hardware and operational intelligence/data monitoring and analytics company**  
**Topic Areas 2 and 3**  
Fend has proven expertise in meeting the Operational Technology (OT)/Industrial Control System (ICS) cybersecurity hardware needs of utilities. Additionally, our product line also incorporates operational intelligence/data monitoring and sends the relevant data to on-or off-premise servers for storage and analytics. This enables customers to visualize time-series data/custom displays on Fend’s portal or other cloud platforms.

Through the DoE Small Business Innovation Research (SBIR) program, Fend has developed a low-cost data diode to serve the Operational Technology (OT) and Industrial Control Systems (ICS) space. Our devices use light as the medium to transmit data from one side to the other, physically isolating the equipment from lower-security networks. On-board processors enable the data diode to communicate with protected equipment using common protocols and communicate this information to an on-site network or cloud service. Access to the protected equipment’s information enables workforce and maintenance efficiencies. Tested by the Army, Navy, and National Cyber Range, Fend’s data diodes are 1/20th the cost of those associated with nuclear power plants. They are currently being used by water districts, utilities, manufacturers, and various government entities to protect critical infrastructure.

**DRG Technical Solutions**  
**Kevin Hodge**  
**Contact Address:** 8312 Neuse Rapids Rd Raleigh, NC 27616;  
**Contact Email:** khodge@drgsolutions.com;  
**Contact Phone:** 919-539-5561  
**Electric Utility Infrastructure and Research**  
**Topic Areas 1, 2, and 3**  
- Electric Power System Research  
- Electric Distribution Engineering Design  
- Electrical Substation Design  
- Electric Grid Automation  
- Advanced sensing and fault detection for Electric Power systems  
- Situational awareness for Electric Power systems  
- HPC high-performance computing Electric Power supply  
- Electrical protection and controls  
- Artificial Intelligence and Machine Learning for Electric Power systems  
- Renewable generation pv, wind, hydro, nuclear, energy storage, Electric vehicle charging stations  
- Electrical Power Quality and Monitoring

DRG is a full-service engineering and research firm, focused on the electric utility and infrastructure, inclusive of but not limited to, transmission and distribution planning, grid automation, reliability, and resiliency.

**VEIR Inc.**  
**Max Luke**  
**Contact Address:** 3 Gill Street, Suite D, Woburn MA 01801;  
**Contact Email:** max@veir.com;  
**Contact Phone:** (857) 210-5828  
**Technology vendor (pre-commercial/early stage)**  
**Topic Areas 1, 2, and 3**  
VEIR is an early-stage company (TRL 3-4) developing the next generation of cost-effective long-distance high-temperature superconducting (“HTS”) electric transmission lines that operate with negligible resistive losses. VEIR’s breakthrough innovation is a passive, distributed evaporative liquid nitrogen-based cryogenic cooling system that delivers 20 times the cooling power per kilogram of nitrogen flow compared to the active mechanical sub-cooling systems deployed in earlier generations of HTS electric transmission facilities. VEIR’s innovative cooling method is the first to enable reliable, cost-effective overhead deployment of HTS transmission lines. In addition to overhead transmission lines, VEIR is developing on-ground and underground transmission lines that utilize similar cooling approaches.

Negligible losses enable VEIR’s transmission lines to operate at levels of electrical current that are much higher than conventional lines. Very high current enables VEIR’s lines to transmit much more power than conventional lines at a given voltage level and to transmit the same amounts of power as conventional transmission lines but at much lower voltage levels. Those characteristics mean that VEIR’s transmission lines can greatly increase the capacities of existing corridors and greatly reduce the space required for new transmission corridors.
| University of Houston | Xingpeng Li (PhD, Assistant Professor) | Contact Email: lxli82@uh.edu; 713-743-8881; Contact Address: 4226 Martin Luther King Boulevard N317, Houston, TX 77204-4005; Contact Website: website: https://rpglab.github.io/people/Xingpeng-Li/ | University | Topic Areas 1, 2, and 3 | Power system network topology optimization, network reconfiguration, power system inertia estimation and frequency stability, usage-based battery degradation, graph neural network, learning-assisted optimization algorithms. | R&D: Power system/microgrid operations and planning, day-ahead scheduling, real-time dispatching, frequency regulation, contingency analysis, grid ancillary service, optimization, machine learning, inertia estimation, inertia-constrained grid operations, electricity pricing in wholesale power energy markets, electric network congestion analysis, cost-benefit analysis, operation and planning of hydrogen-embedded power systems, modeling and simulation, software development, novel experience combining deep learning and optimization methods, and extensive experience with various power system software including commercial software that we own multiple licenses. For more of our publications, check: https://rpglab.github.io/papers/ |

| LineVision, Inc. | Hilary Pearson | Contact Address: 529 Main Street, Suite 307, Boston, MA 02129 | C-Corporation | Topic Areas 1, 2, and 3 | LineVision is a Grid-Enhancing Technology (GET) company founded in 2018 that has developed an advanced non-contact sensor and analytics platform that continuously monitors the behavior of overhead transmission line conductors, detecting anomalies and issuing real-time alerts on risks, while unlocking as much as 40% additional capacity on existing lines through Dynamic Line Ratings (DLR). | LineVision provides utilities with three applications which are all enabled by the company’s non-contact LiDAR sensor system which is mounted to transmission tower structures, requiring no outages and no live line working techniques. The three solutions are: LineRate provides Dynamic Line Ratings (DLR) and Ambient Adjusted Ratings (AAR) which increase the capacity on transmission lines. LineAware provides utility and grid operators with situational awareness, which helps to inform operators with sag and horizontal motion data, triggering alerts on exceedances. LineHealth provides planners and risk management teams with Asset Health Monitoring, which improves maintenance strategies by creating a digital twin to determine conductor health |

| Franklin Energy | Lloyd Kass | Contact Email: lkass@franklinenergy.com; Contact Phone: 646.522.4070 | Utility Energy Services Provider, 3rd Party Customer Program Designer & Implementer | Topic Area 2 | Turnkey implementation services provider of demand management programs serving large commercial and industrial facilities and mass market consumers, including disadvantaged (J40) communities. | Customer marketing, outreach and education; enrollment and engagement in demand response, managed charging and other grid optimization programs; facility energy audits and assessments of all kinds; home and other building retrofits including installation of grid-enabled equipment and devices; and contractor engagement and oversight. |

<p>| Beneficial Electrification | Alex Hofmann | Contact Name: Alex Hofmann; Contact Address: 3625 N Potomac St Arlington, VA 22213; Contact Email: <a href="mailto:info@be-league.org">info@be-league.org</a> | Type: 501 (c)(3) non-profit | Topic Areas 1, 2, and 3 | Area of Technical Expertise (bulleted list): Convener key stakeholders and utilities to discuss electrification and related projects R&amp;D program management and small utility consortia R&amp;D program management System design for reliability, resilience, and safety Support programs at utilities Electric bus programs Community geothermal Green ammonia | The beneficial electrification league (BEL) excels at bringing utilities and stakeholders together to develop programs in collaboration with manufacturers and research organisations. This means BEL can help organisations with the identification and development of pilot programs for demonstration, field validation, and that are inclusive of energy burdened, low-income, and rural communities. |</p>
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<thead>
<tr>
<th><strong>Electrical Consultants, Inc.</strong></th>
<th>Crystal Kuntz</th>
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<tbody>
<tr>
<td><strong>Contact Address:</strong> 3521 Gabel Road, Billings, MT 59101;</td>
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<tr>
<td><strong>Contact Email:</strong> <a href="mailto:crystal.kuntz@eciusa.com">crystal.kuntz@eciusa.com</a>;</td>
<td></td>
</tr>
<tr>
<td><strong>Contact Phone:</strong> 406-259-9933</td>
<td></td>
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<tr>
<td><strong>Electrical Engineering</strong></td>
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<td><strong>Topic Areas 1, 2, and 3</strong></td>
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<td>All services for utility scale, UHV, HV &amp; HVDC electric transmission &amp; distribution planning, engineering design &amp; construction. Smart Grid technologies, Metering, System Modeling, Protection &amp; Control.</td>
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<tr>
<th><strong>Jupiter Intelligence</strong></th>
<th>Jeff Ward, Global Federal Climate Account Executive</th>
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<tbody>
<tr>
<td><strong>Contact Address:</strong> C/o Jupiter Intelligence; 181 2nd Avenue, Suite 300; San Mateo, CA 94401;</td>
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<tr>
<td><strong>Contact Email:</strong> <a href="mailto:jeff.ward@jupiterintel.com">jeff.ward@jupiterintel.com</a>;</td>
<td></td>
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<tr>
<td><strong>Contact Phone:</strong> 434-242-3479</td>
<td></td>
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<tr>
<td><strong>Private sector company</strong></td>
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<td><strong>Topic Area 1</strong></td>
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<td>Jupiter Intelligence™ has created a world-class ClimateScore™ risk platform that predicts extreme weather and climate impacts on infrastructure at exceptionally-high spatial resolutions from a very granular, i.e., asset or building, level to total portfolios or at the community, state, regional, national, or global levels, over time horizons ranging from a few hours to several decades into the future. Jupiter provides physical climate data analytics that can facilitate infrastructure resilience planning and implementation. The analytics also can be used for risk management and risk disclosure. Jupiter’s ClimateScore™ framework is founded upon current and future-looking, rather than solely historic, data.</td>
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<tr>
<th><strong>UtilityAPI</strong></th>
<th>Heather Williams, Sr. VP Business Development and Marketing</th>
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<tbody>
<tr>
<td><strong>Contact Address:</strong> 1212 Broadway, Suite 1600, Oakland, CA 94612;</td>
<td></td>
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<td><strong>Contact Phone:</strong> (503) 453-2053</td>
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<tr>
<td><strong>Energy Data Provider</strong></td>
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<td><strong>Topic Areas 1, 2, and 3</strong></td>
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<td>UtilityAPI provides data exchange tools that are used to accelerate deployment and monitoring of distributed energy resources and energy efficiency technologies. UtilityAPI enables seamless data access and behind the meter insights through our safe, secure, and standardized data exchange platform. We also work with regulators and local governments to shape effective utility data access policies.</td>
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<tr>
<th><strong>Cornell University</strong></th>
<th>Jacob Mays</th>
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<tr>
<td><strong>Contact Email:</strong> <a href="mailto:jacobmays@cornell.edu">jacobmays@cornell.edu</a></td>
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<td><strong>Institution of Higher Education</strong></td>
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<td><strong>Topic Area 3</strong></td>
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<tr>
<td>Transmission system applications: Planning, modeling, cost allocation, or other approaches that enable a transition to innovative financial and/or regulatory constructs that accelerate transmission expansion. Expertise in optimization and simulation modeling with applications in electricity system planning, operations, and market design.</td>
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</table>
**Vega MX Inc**

**Vivek Mital**

**Contact Address:** 11 Broadway, #420, New York, NY 10002;

Website: www.vegamx.net; **Contact Phone:** 347 702 1659

Pvt. Company Delaware Corp.

Topic Area 2 primarily, but open to being a sub for Topic Areas 1 and 3

1. Climate Modeling including Wildfire across the life cycle (pre fire/active phase/post fire). We have been selected by NASA i Tech Cycle II 2021 for the same and the pitch is included here https://www.youtube.com/watch?v=t7goxOQjbdU

2. Space Technology and applications - Earth Observation, change detection, wide area monitoring. Sensors : Microwave (SAR), Optical, HSI, Weather (radiometry) etc

3. Sensor Fusion, AI/ML, Physics modeling, Autonomy etc

4. Software Engineering, Big Data Systems Engineering, Business Analysis

5. Financial Engineering & Capital Markets

VegaMX is a US based AI Insights, New Space Technology firm that uses earth observation with model and data driven approaches for addressing food, energy and national security challenges. We are a multinational consortium of experts with professional experience in disaster & wildfire management, aviation and space systems, agroforestry, capital markets and banking, physics, and data science across commercial government, and scientific domains. The company has strengths in space sensor technology such as microwave and optical, designing and operating complex airborne platforms, atmospheric physics and weather / climate modeling, AI / ML and massive data management, as well as fielding commercially successful engineering solutions deployed at leading commercial and government entities world wide. We are also operating in the in-space segment for predictive maintenance, SHM, CBM with in situ on board sensors and data fusion as the unifying theme with EO.

**Fermata Energy**

**Melissa Chan**

**Contact Email:** melissa@fermataenergy.com

Vehicle-to-grid technology platform

Topic Areas 1, 2, and 3

We transform bidirectional EVs into inverter-based DRPs, providing grid edge visibility and control for our utility partners. By aggregating the batteries onboard EVs, we provide grid scale energy storage for every day peak management and for emergency resilience.

As a partner we can provide:

- managed charging and discharging of EVs and battery energy storage systems
- secure backhaul and storage of EV and EVSE operational data
- load management
- predictive loads for buildings and homes using our technology integration with utility ADMS and DERMS
- access to subcontractors who will install and maintain EVSE

**Enel X North America, Inc.**

**David Rodriguez**

**Tulsa Buyanova**

**Contact Phone:** 978-989-5413 and 351-228-1787; **Contact Email:** enelxteaminglist@enel.com

Provider of demand flexibility solutions and digital platforms

Topic Areas 1, 2, and 3

- Demand Response, Demand Management and Flexibility Solutions
- Battery Energy Storage Systems and Microgrid Deployment
- Energy Supply Management
- Utility-Scale Energy Storage Solutions
- Energy Efficiency
- Utility Bill Management
- Renewable Energy
- Sustainability
- Smart EV Charging
- Energy Services
- Distributed Energy Solutions (including resilience/backup provisions)
- Digital Platforms
- Smart/Connected Devices

Enel X holds a leading position in C&I demand response programs globally. In North America, we manage over 4.7 GW in demand response capacity across 4,000 customers. Enel’s portfolio includes 8 GW of utility-scale renewable capacity, 606 MW / 883 MWh of utility-scale energy storage, 63 MW / 145 MWh of distributed energy storage capacity, and 110,000 EV charging points. Our goal is to connect “any asset to any market and any value stream” to enable a more sustainable energy future. We’re ranked #1 in Vehicle Grid Integration Solutions and #2 C&I Energy Storage System Integrator globally by Guidehouse Insights.

**GE Renewable Energy**

**Matthew Clifton**

**Contact Email:** matthew.clifton@ge.com

For profit enterprise

Topic Areas 1, 2, and 3

Reliable, affordable and sustainable energy.

Combining onshore and offshore wind, hydro and innovative grid and digital technologies, GE Renewable Energy has installed more than 400 GW capacity globally.

**Wells Rural Electric Coop**

**Layla Murphy**

**Contact Address:** 1455 Humboldt Avenue, P.O. Box 365, Wells, NV 89835; **Contact Email:** lmurphy@wrec.coop; ph: 775-752-1581

non-profit electric cooperative

Topic Areas 1 and 2

Rural electric service; power purchaser and supplier

Central power station for rural areas surrounding Wells, NV
Energy System Modeling Software Company
Topic 1 is focused on grid resilience, particularly in the context of extreme weather events. With the coupled energy network capabilities of SAInt, encoord is uniquely positioned to aid transmission system operators and planners in assessing the interdependencies of electricity and gas networks, particularly during periods of extreme weather when the systems may be under stress.

Topic 2 is focused on technology solutions to increase the flexibility, efficiency, reliability, and resilience of the electric power system. The time-scale integrated approach for power system modeling with SAInt means that the team is able to offer a streamlined analysis of proposed system changes to achieve the specified goals.

Emera Technologies
Louise Anne Comeau, Vice President, Government Relations
Email: la.comeau@emera.com; Tel: 902 266 9728
Manufacturer, Integrator
Topic Area 1, 2
Emera Technologies is the developer and manufacturer of BlockEnergy Smart Platform, the world’s first utility-focused, distributed renewable energy platform. Scalable, storm-resilient and able to interoperate seamlessly with the grid, BlockEnergy manages rooftop solar, energy storage and smart distributed controls in communities.

EnerNex
Michel Pastore, Contact Address: 620 Mabry Hood Road, Suite 300, Knoxville, TN 37912; Contact Name: Michele Pastore; Contact Email: mpastore@enernex.com; Contact Phone: 865-770-4892
LLC
Topic Areas 1 and 2
EnerNex is a power systems engineering firm that provides smart grid consulting services to help utilities identify, specify, procure, implement, and utilize modern grid technologies and systems. We address the complex challenges of the electric utility industry by offering services that span from detailed engineering analyses to strategic guidance. Our wide range of utility industry specific technical services enables us to provide broad contextual perspective to best resolve the specific needs of our utility clients. EnerNex helps clients explore the efficacy of modern utility technologies and systems (e.g. advanced metering, MDMS, ADMS, DERMS), the adoption of distributed energy resources (e.g., PV, energy storage, DR and, NWA), and modeled utility scale solar and wind energy integration and various microgrid topologies to explore the system impacts of integrating these resources on the grid.

EnerNex is a leader in providing engineering, consulting, and research services to the electric power industry worldwide. Founded in 2003, EnerNex offers a cross-cutting blend of expertise in grid modernization planning and implementation; renewable energy engineering, design, and integration; and electric power systems planning and engineering. Services include, but are not limited to: Electric System Engineering and Analysis; Transmission and Distribution Studies; Power System Studies; Analysis; Planning; Power Quality / Power Disturbance Troubleshooting; Renewable and Distributed Energy Integration and Interconnection; Solar converter and wind turbine modeling; and solar integration studies; Renewable plant interconnection studies; Energy Storage Integration; Grid Modernization; Smart Metering; and Demand Response Energy Assurance Planning – Resilient Energy Systems / Microgrid.

Encoord
Wallace Kenyon
Contact Address: 620 Mabry Hood Road, Suite 300, Denver, CO, USA 80204
Contact Email: wallace@encoord.com; Contact Address: 620 Mabry Hood Road, Suite 300, Denver, CO, USA 80204
Energy System Modeling Software Company
Topic Areas 1 and 2
The encoord team has experts in the electricity and gas networks. The electricity modeling team has extensive expertise in performing capacity expansion modeling, production cost modeling with DC optimal power flow, and AC power flow for steady state analysis and quasi-steady state time series analysis. There is in-house expertise with transmission and distribution modeling, including familiarity and conversion capabilities with certain power system modeling tools such as PSSE, DigSILENT, CYME, and OpenDSS.

Encoord curates SAInt, which is a coupled energy network software platform that permits the simultaneous modeling of electricity and gas networks to assess the interdependencies and internetwork impacts. Beyond the coupled simulation capabilities, SAInt is able to do varied timescale modeling of electricity networks, including capacity expansion, production cost, and power flow modeling, with larger timescale modeling informing the initial states of the shorter timescale modeling. Certain members of the team are mathematical modelers who are also experts in power systems operations, which allows the development of novel simulation capabilities within the existing platform to meet the rapidly changing requirements associated with power system planning.

The distributed nature of the design, including the smart distributed controls, that operate autonomously to allocate energy as required amongst homes in a community. The BlockEnergy Smart Platform data architecture provides detailed second-by-second “live” data to grid operators, providing very high-level visibility of energy flows that can be used to improve the efficiency, reliability and safety of the grid.
**TRC Companies**

Col Smart  
Director - Grid Modernization  
Sensor One  
Gateway Center Suite 2600  
Newark, NJ 07102  
(973) 780-4200  
col.smart@trccompanies.com

**Senior Director - Grid Modernization**  
One Gateway Center  
Suite 2600  
Newark, NJ 07102  
col.smart@trccompanies.com

**Engineering, Environmental and Technology Consulting**  
Topics 1, 2 and 3  
ESG Strategy and Implementation  
Operating Technology (OT) and Information Technology (IT) Strategy and Integration, Geospatial Information Systems  
Design and Implementation  
Transmission, Distribution and Substation Design and Construction  
Environmental Permitting  
Testing and Commissioning  
Power System Studies  
Distribution Automation  
Telecom/Joint Use  
Storage and Microgrids  
Renewable Energy  
Electricity and EVs  
Market Research  
Customer Programs  
Advanced Data Analytics

**TRC Companies** is a global engineering, environmental and technology consulting firm with over 50 years of operation and a staff of 6,600. TRC Companies has resources at 140 strategic locations across the US. TRC Companies is able to support every aspects of energy projects on an end to end basis from generation through to end customer delivery, and from those end customers back to the grid. TRC Companies skills cover such as project strategy, research and analytics, design and inception; project management and execution; testing, commissioning and on-going operations.

**Vermont Public Power Supply Authority (VPPSA)**

Kenneth Nolan  
Contact Email: knolan@vppsa.com  
Contact Phone: (802) 882-8500  
Contact Address: P.O. Box 126  
5195 Waterbury-Stowe Road  
Waterbury Center, VT 05677  
Contact Website: www.vppsa.com

**Electricity Generator, Joint Action Agency for (11) Distribution Providers**

**Topic Areas 1 and 2**

Vermont Public Power Supply Authority (VPPSA) is a joint action agency established by act of the Vermont General Assembly to provide services to its municipal and community owned electric utility members. VPPSA's eleven (11) municipal member utilities serve all or part of 50 rural communities and over 30,000 customers in the State of Vermont, several of which are designated as Disadvantaged Communities (DACs). VPPSA has deep experience developing, managing, and deploying energy projects, technology solutions, planning support, and regulatory and legislative representation.

**The Vermont Public Power Supply Authority (VPPSA) has broad statutory powers that enable it to provide such services as may be required in support of the activities of its member municipal utilities and to market its services to non-member utilities as it deems appropriate. VPPSA provides its members with a broad spectrum of joint action services and utility operations support such as: power aggregation, power generation, financial support, IT support, rate planning support and legislative and regulatory representation.**

**Oracle Energy & Water**

Mary Sprayregen  
2300 Oracle Way  
Austin, TX 78741  
mary.sprayregen@oracle.com  
802-578-3189

**Technology Vendor**

**Topic Areas 1, 2, 3**

Global provider of SaaS solutions to help utilities increase reliability and resiliency & accelerate equitable decarbonization efforts. Providing scalable solutions that can integrate with other platforms and vendors.

**DERMS, NMMS, ADRS, NDM provider. Customer care & billing. Opower solutions: customer engagement platform, residential behavioral energy efficiency and analytics, outbound load shifting coaching, and energy & appliance disaggregation. A suite of affordability solutions (customer identification and analytics, outbound alerts, and a one-stop shop programmatic savings platform) are available to support Community Benefit Plans and the Justice40 initiative.**

**GZA GeoEnvironmental, Inc. (GZA)**

Wayne Cobleigh  
249 Vanderbilt Avenue  
Norwood, MA 02062;  
(781) 278-3848;  wayne.cobleigh@gza.com

**Employee-owned company**

**Topic areas 1, 2, and 3**

GZA provides Geotechnical, Environmental, Ecological, Water, and Construction Management services. GZA’s more than 700 professionals are based in 30 offices in New England, the Mid-Atlantic, and the Great Lakes States. GZA supports clients in the reliability, resilience, beneficial re-use and decarbonization of energy assets with a full breadth of resiliency planning, grant support, siting and permitting, engineering, and construction support services.

**Microgrid planning, siting, feasibility, design for climate adaptation and resilience, environmental permitting, benefit cost analysis and technical consultant to support federal and state grant and loan funding.**
**Sense Labs, Inc.**  
Brandon Dyer  
Contact Address: 481 Massachusetts Ave, Ste. 4, Cambridge, MA, 02139  
Contact Email: brandon.dyer@sense.com  
Contact Website: sense.com  
Contact Phone: 303-489-9101  

**Technology Vendor**  
Topic Areas 1, 2, and 3  
Founded in 2013, Sense uses machine learning applied to high resolution, waveform data to analyze energy usage in the home, providing real-time insights on device behavior and enabling a wide range of customer applications and grid services to make home smarter and more efficient and the grid more reliable. Sense has partnered with leading meter manufacturers to integrate our technology directly into the next generation of smart meters. Sense connects to the home’s Wi-Fi and reports this information through the cloud to the Sense apps for iOS, Android, and the web. This allows homeowners to remotely monitor their home’s energy in real time right down to the second. Sense is developing behavioral energy efficiency and demand response programs based on actual usage reductions realized at the meter, delivering for DSM portfolios and targeted peak reduction. Sense is also developing real-time grid analytics capabilities, including DER forecasting, outage and fault detection, voltage optimization and grid modernization services.

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**MPR Associates**  
Nathan Mitchell  
320 King Street, Alexandria VA 22314 / 703-519-0200 / info@mpr.com / Website: www.mpr.com  

**Power Engineering Services Firm**  
Topic Areas 1, 2 or 3  
- Risk Based Maintenance and Capital Investment Planning  
- Reliability and Resiliency Solutions  
- Asset Management Strategy  
- Operations Optimization  
- Grid Modernization  
- Energy Storage Technology Development and Deployment  
- Transmission, Substation and Distribution System Project Contracting, Management and Controls  
- Reliability, Resiliency and Microgrid Solutions  
- Risk Informed Investment and Maintenance Prioritisation  
- Power System Planning and Analysis  
- Power Systems Equipment Reliability, Qualification and Standards  
- Renewable Energy Integration  

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**Transmission & Distribution Services, LLC**  
Harry Barnes, Jr., Managing Member  
Contact Address: 9550 San Mateo Blvd. NE, Suite G Albuquerque, NM 87113  
Contact Email: hbarnesjr@t-d-services.com  
Contact website: https://www.t-d-services.com  
Contact Phone: (505) 344-4234  

**Employee Owned**  
Topic Area 1,2, and 3  
Transmission and distribution lines, substations, protective relaying and system protection, SCADA, testing and commissioning, construction administration and management, power delivery, power generation (including wind and solar), surveying, GIS mapping and UDAR scanning, and consulting for support on project development, licensing and permitting, contract development and negotiating, project financing, site selection and environmental assessments, conceptual and preliminary engineering studies, plant performance modeling, procurement services, value engineering studies, risk and condition assessments, financial. Located in Albuquerque, New Mexico, T&D has served IOUs, electric cooperatives, municipal and tribal utilities for over 15 years. Our qualified engineering and surveying personnel work together to provide effective solutions and support to our clients with regard to system upgrades, maintenance, and planning. We have extensive experience navigating RUS, BIA, BIA, FERC, NESC, and RUS regulations, working with client-specific standards, and acting in compliance with the cultural concerns of Tribal entities.
<table>
<thead>
<tr>
<th>Company</th>
<th>Contact Person</th>
<th>Address</th>
<th>Phone/Email</th>
<th>Topic Area 1,2 and 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idaho Falls Power</td>
<td>Josh Roos</td>
<td>Josh Roos 140 S. Capital Ave, Idaho Falls, ID</td>
<td>208-612-8120, <a href="mailto:jroos@ifpower.org">jroos@ifpower.org</a></td>
<td>IFP, in partnership with the Idaho National Lab (INL), has tested our own hydro-electric project for black start and islanding potential which provided the reassurance that needs can be met. IFP also partner to the Pacific Northwest Smart Grid Demonstration Project from 2010 - 2014. The projects IFP participated in include: automated power factor control, distribution automation, voltage reduction, plug-in hybrid electric vehicles, and battery incorporation into the grid. These efforts garnered invaluable experience and education for the IFP staff and demonstrates a successful history of partnering with other utilities and entities for successful outcomes. IFP owns and operates two FERC licensed hydroelectric projects with four impoundments powering six hydroelectric generators, having a combined name plate capacity of 50.2 MW of generation. IFP also owns three MW of total generation from the Horse Butte Wind project and is currently in negotiations to expand this project. Also, IFP operates a small solar installation located at 140 S. Capital Avenue. Together, these projects produce enough electricity to meet 35% of the City’s annual electricity requirements. Additional assets include 12 substations, 27 miles of 161 kV transmission, 25 miles of 46 kV sub-transmission, 524 miles of distribution, and 703 miles of fiber-to-the-home.</td>
</tr>
<tr>
<td>Sentient Energy</td>
<td>Bob Karschnia, Chief Executive Officer</td>
<td>15815, Executive Drive, Suite 300, Frisco, TX 75035</td>
<td><a href="mailto:bob.karschnia@sentient-energy.com">bob.karschnia@sentient-energy.com</a>, Phone: 469-636-2732</td>
<td>Sentient Energy provides a comprehensive solution for both overhead and underground distribution circuit grid monitoring and grid edge control sensors, smart devices, grid management software and analytics. We also offer IT and technical services to improve overall situational awareness quickly and are a critical part of the Grid Enhancing Technologies (GET) that improve Advanced Power Flow Analysis and Control as well as Network Topology Optimization. The average customer should see a 10% reduction in Customer Minutes Interrupted (CMI) within a year.</td>
</tr>
<tr>
<td>Sentient Energy</td>
<td>Giri Iyer, Vice President, Corporate Development</td>
<td>15815, Executive Drive, Suite 300, Frisco, TX 75035</td>
<td><a href="mailto:giyer@sentient-energy.com">giyer@sentient-energy.com</a>, Phone: 469-636-2732</td>
<td>Sentient Energy provides a comprehensive solution for both overhead and underground distribution circuit grid monitoring and grid edge control sensors, smart devices, grid management software and analytics. We also offer IT and technical services to improve Advanced Power Flow Analysis and Control as well as Network Topology Optimization. The average customer should expect their grid to rebound back at least one day faster than before with a $25-$50 per capita economic impact.</td>
</tr>
<tr>
<td>Sentient Energy</td>
<td>John Costello, Senior Vice President, Global Sales</td>
<td>15815, Executive Drive, Suite 300, Frisco, TX 75035</td>
<td><a href="mailto:john.costello@sentient-energy.com">john.costello@sentient-energy.com</a>, Phone: 469-389-8908</td>
<td>Sentient Energy provides a comprehensive solution for both overhead and underground distribution circuit grid monitoring and grid edge control sensors, smart devices, grid management software and analytics. We also offer IT and technical services to improve Advanced Power Flow Analysis and Control as well as Network Topology Optimization. Customers should be able to facilitate interconnect of DER/EV and Microgrid buildout at the grid edge with confidence using our grid edge voltage stabilization and power quality improvements. The average customer should expect to see savings of $50K-$200K per year.</td>
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<tr>
<td>Company</td>
<td>Contact Name</td>
<td>Address</td>
<td>Email</td>
<td>Industry Focus</td>
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<tr>
<td>Oracle Energy &amp; Water</td>
<td>Mary Sprayregen</td>
<td>2300 Oracle Way, Austin, TX 78741</td>
<td><a href="mailto:mary.sprayregen@oracle.com">mary.sprayregen@oracle.com</a></td>
<td>Technology Vendor</td>
</tr>
<tr>
<td>GDS Associates, Inc.</td>
<td>Julio Rovi</td>
<td>Contact email: <a href="mailto:julio.rovi@gdsassociates.com">julio.rovi@gdsassociates.com</a>.</td>
<td></td>
<td>C-type Consulting firm founded in 1986</td>
</tr>
<tr>
<td>Smart Wires Inc.</td>
<td>Ted Bloch-Rubin</td>
<td>Address: 1035 Swabia Ct., Suite 130, Durham, NC 27703</td>
<td><a href="mailto:ted.blochrubin@smartwires.com">ted.blochrubin@smartwires.com</a></td>
<td>C-Corporation</td>
</tr>
</tbody>
</table>
Chip Scan Inc  
Chip D. or Calvin C.  
Email: accounts+doegrip@chipscan.us, phones: 332-256-3381, 332-256-1927; address: 88-08 Rockaway Beach Blvd, Ste 205, NY 11693  
Small, non-traditional, minority owned, cybersecurity company located in a climate disadvantaged community in NYC. S-corp. DoD/DMEA trusted supplier  
Topic Areas 2 and 3  
Cybersecurity for OT Systems  
We offer unique cyber defense designed for critical infrastructure operational technologies such as power grid, transportation systems, manufacturing, and aerospace/defense. Most control systems are small footprint, low-resource devices running specialized real-time operating systems and control loops. These systems are typically protected by airgapping or through the use of IT cybersecurity controls such as network monitoring. IT systems generally rely on heavyweight cyber defense practices that requires scanning of signatures, behavioral patterns and use of heuristics and network packet introspection that are beyond the capability of OT systems to do. We offer a new type of OT protection that lives within the device and provides a lightweight modern defense that does not upset the delicate balance required to maintain their mission.

POWER Engineers Inc.  
Larry Wilke, Strategic Consultant  
Contact Address: 3940 Glenbrook Drive, Hailey, ID 83333  
Contact Email: Larry.Wilke@powereng.com;  
Contact Website: www.powereng.com; Contact Phone: 818-903-5036  
Engineers, Scientists and Consultants who team together to create integrated, multidiscipline solutions.  
Topic Areas 1, 2, and 3  
POWER has over 3,500 employees of which specialize in the following broad divisional areas:  
- Advanced Distribution Management Systems  
- Asset Management Solutions  
- Construction Support  
- Distributed Energy Resources  
- Electrical Studies  
- Geospatial Information (Justice40)  
- Owner’s Engineering  
- Power Plant Engineering  
- Process and Controls  
- Program and Project Services  
- System Protection and Control  
- Testing and Commissioning  
- Transmission and Distribution Engineering  
- Visualization Services, AI and ML.

AutoGrid Systems, Inc.  
Nils Frenkel, Sales Director  
Contact Address: 255 Shoreline Drive, Suite 350, Redwood City, CA 94065;  
Contact Email: Nils.Frenkel@auto-grid.com;  
Contact Website: www.auto-grid.com; Contact Phone: 866-652-5889  
Vendor of DERMS and VPP Software  
Topic Areas 1, 2, and 3  
AutoGrid builds software applications that enable a smarter distributed energy world. AutoGrid’s suite of flexibility management applications allows utilities, electricity retailers, and energy service providers to deliver cheap, clean, and reliable energy by managing networked distributed energy resources (DERs) in real-time and at scale.  

Smart Grid Solutions  
Huy Nguyen  
Contact Address: PO Box 302825, Austin, TX 78703;  
Contact Email: h.nguyen@smartgridsolutions.com;  
Contact Website: https://smartgridsolutions.com; Contact Phone: +1-512-782-4698  
LLC, US-based manufacturer of line based sensors, e.g. fault indicators.  
Topic Areas 1, 2, and 3  
Our fault indicators will improve the resiliency of almost any distribution system and are an excellent addition to projects related to system resiliency.  
SGS has designed and manufactured line-based sensors for the last 10 years. We have engineering resources that cover the needs of product development for the electric utility sector. Our most successful products are our fault indicators. We have a number of options that cover the spectrum from overhead to underground and from wireless to LED indicating.  
SGS is a manufacturer of fault indicators based in Austin TX. We have US-based engineers and manufacturers that has decades of experience servicing the power industry. Our products qualify Buy American and are an excellent addition to almost any project that relates to system resiliency.  
We understand well the design, development and manufacture of line-based sensors and are agile in our ability to customize and develop accordingly if presented with a quality business opportunity.
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<tr>
<th>Company</th>
<th>Contact Name</th>
<th>Contact Address</th>
<th>Contact Website</th>
<th>Contact Email</th>
<th>Contact Phone</th>
<th>Topic Areas</th>
<th>Incorporation Status</th>
<th>Dynamic Line Rating (DLR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ampacimon, Inc</td>
<td>Joey Alexander</td>
<td>110 Allen Street, Cumming, GA 30040</td>
<td><a href="http://www.Ampacimon.com">www.Ampacimon.com</a></td>
<td><a href="mailto:joey@Ampacimon.com">joey@Ampacimon.com</a></td>
<td>678-231-9473</td>
<td>1, 2, 3</td>
<td>S-Corp</td>
<td>The Ampacimon Dynamic Rating System (ADR) was developed in 2010 and has been proven by numerous operational integrations with EMS systems to increase transmission and distribution capacity by 20% - 50% for utilities around the world. We focus on the most advanced conductor mounted sensor metrologies to produce highly accurate and reliable ratings data with 98% forecasting confidence as required by ISO’s and RTO’s in the U.S. Typical use cases are (i) solving market congestion issues, (ii) deferral of line upgrades for 5 - 10 years, (iii) increased capacity for the interconnection of renewable generation sources.</td>
</tr>
<tr>
<td>Smart Grid Solutions</td>
<td>William Marshall</td>
<td>6004 Techni Center Dr #200, Austin, TX 78721</td>
<td><a href="http://www.smartgridsolutions.com">www.smartgridsolutions.com</a></td>
<td><a href="mailto:w.marshall@smartgridsolutions.com">w.marshall@smartgridsolutions.com</a></td>
<td>(512) 782-9698</td>
<td>1, 2, 3</td>
<td>FCI Manufacturer</td>
<td>Smart Grid Solutions manufactures reliable faulted circuit indicators that improve system reliability by reducing outage time on electrical distribution systems of all sizes and voltages. SGS’s fault indicators are manufactured in Dallas, TX, and qualified Buy American.</td>
</tr>
</tbody>
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