Department of Energy - Teaming Partner List (DE-FOA-0002740)

SUBMISSION INSTRUCTIONS

Any organization that would like to be included on this list should submit the following information:

Organization Name, Contact Name, Contact Address, Contact Email, Contact Phone, Organization Type, Area of Technical Expertise, Brief Description of Capabilities,

and Topic Area(s) of Interest.

Interested parties should complete the Excel file titled DOE-FOA[1]0002740 Teaming Partner List provided as an attachment to this announcement and email it to GDOFOA@hq.doe.gov with the subject line "Teaming Partner Information."

				Topic Area(s) of		
Organization Name	Contact Person Name	Contact	Organizational Type	Interest (1, 2, or	Brief Description of Area(s) of Expertise	Brief Description of Canabilit/ies)
Organization Name CrossCompute Inc.	Contact Person Name Roy Hyunjin Han	Information Contact Address: 445 5th Ave 17F, New York, NY 10016; Contact Email: contact@crossco mpute.com; Contact Website: https://crosscomp ute.com; Contact Phone: +1 917-566-7004		3)	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.	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

Smarter Grid Solutions	Mary Jo Nye	Contact Email:	Vendor of DERMS	Topic Areas 1, 2,	Smarter Grid Solutions (SGS) is an	At a very high level, we are a system of
		mnye@smartergri	Software	and 3	industry leader and trusted provider of	systems company addressing real-time
		dsolutions.com;			real-time DERMS and advanced	DERMS applications and use cases.
		Contact Phone:			distribution application/solutions to	Some of the use cases we address (not
		612-859-1821			energy providers across the world. We	an all-inclusive list) include flexible
					use DERMS as a catch-all description, as	interconnections, EVs, aggregation and
					we look at DER from all angles to ensure	monitoring of resources, integrations,
					utilities and developers unlock the value	real-time control, and curtailment, and
					of the DER, and that our solutions can	monetization.
					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.	

Whisker Labs	James E Anderson, VP	Contact Person:	Private Company	Topic Areas 2 and	Whisker Labs (WL) is the maker of Ting,	Whisker Labs has invested tens of
	Business Development	James E		3	a sensor device that monitors the home	millions of dollars in deployment of the
		Anderson;			to help prevent electrical fires. The Ting	network of Ting power quality sensors
		Contact Address:			sensor network monitors the utility grid,	and digital signal processing, data
		12410 Milestone			documents power quality and reliability,	collection, analysis and delivery
		Center Dr.,			and detects grid faults that can cause	mechanisms that may qualify as
		Germantown, MD			wildfire ignitions. The Ting network and	matching expenses under the grant
		20876; Contact			its data are growing rapidly through	program. WL specializes in home
		Email:			significant investments by WL and	electrical system and grid scale network
		janderson@whisk			insurance company partners that	monitoring for the prevention of fires
		erlabs.com;			provide Ting to their customers. WL Ting	caused by arcing, and power quality
		Contact Phone:			data includes high resolution	problems associated with voltage,
		(202) 302-7008;			information on voltage sags and swells,	frequency and harmonic anomalies, and
		Contact Website:			frequency, and harmonic disturbances.	can provide utilities or utility software
		https://www.whis			This data is valuable for a variety of use	and data service providers a constant,
		kerlabs.com/			cases including wildfire prevention, the	high-quality data stream to integrate
					integration of DER assets, enhancing	into utility operations.
					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.	
					https://www.whiskerlabs.com/	

Fend Inc	Chris Escamilla	Contact Address:	Operational	Topic Areas 2 and	Fend has proven expertise in meeting	Through the DoE Small Business
		4600 Fairfax Dr,	Technology	3	the Operational Technology	Innovation Research (SBIR) program,
		Suite 410	(OT)/Industrial Control		(OT)/Industrial Control System (ICS)	Fend has developed a low-cost data
		Arlington, VA	System (ICS)		cybersecurity hardware needs of	diode to serve the Operational
		22203; Contact	cybersecurity hardware		utilities. Additionally, our product line	Technology (OT) and Industrial Control
		Email:	and operational		also incorporates operational	Systems (ICS) space. Our devices use
		cescamilla@fend.t	intelligence/data		intelligence/data monitoring and sends	light as the medium to transmit data
		ech; Contact	monitoring and		the relevant data to on- or off-premise	from one side to the other, physically
		Phone: (571) 970-	analytics company		servers for storage and analytics. This	isolating the equipment from lower-
		1382 x707			enables customers to visualize time-	security networks. On-board processors
					series data/custom displays on Fend's	enable the data diode to communicate
					portal or other cloud platforms.	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:	Electric Utility	Topic Areas 1, 2,	- Electric Power System Research	DRG is a full-service engineering and
		8312 Neuse	Infrastructure and	and 3	- Electric Distribution Engineering	research firm, focused on the electric
		Rapids Rd	Research		Design	utility and infrastructure, inclusive of but
		Raleigh, NC			- Electrical Substation Design	not limited to, transmission and
		27616;			- Electric Grid Automation	distribution planning, grid automation,
		Contact Email:			- Advanced sensing and fault detection	reliability, and resilency.
		khodge@drgsoluti			for Electric Power systems	
		ons.com;			- Situational awareness for Electric	
		Contact Phone:			Power systems	
		919-539-5561			- 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	

VEIR Inc.	Max Luke	Contact Address:	Technology vendor	Topic Areas 1, 2,	VEIR is an early-stage company (TRL 3-4)	Negligible losses enable VEIR's
		3 Gill Street, Suite	(pre-commercial/early	and 3	developing the next generation of cost-	transmission lines to operate at levels
		D, Woburn MA	stage)		effective long-distance high-	electrical current that are much higher
		01801;			temperature superconducting ("HTS")	than conventional lines. Very high
		Contact Email:			electric transmission lines that operate	current enables VEIR's lines to transm
		max@veir.com;			with negligible resistive losses. VEIR's	much more power than conventional
		Contact Phone:			breakthrough innovation is a passive,	lines at a given voltage level and to
		(857) 210 5828			distributed evaporative liquid nitrogen-	transmit the same amounts of power
					based cryogenic cooling system that	conventional transmission lines but at
					delivers 20 times the cooling power per	much lower voltage levels. Those
					kilogram of nitrogen flow compared to	characteristics mean that VEIR
					the active mechanical sub-cooling	transmission lines can greatly increas
					systems deployed in earlier generations	the capacities of existing corridors an
					of HTS electric transmission facilities.	greatly reduce the space required for
					VEIR's innovative cooling method is the	new transmission corridors.
					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.	

University of Houston	Xingpeng Li (PhD,	Contact Email:	University	Topic Areas 1, 2,	Power system network topology	R&D: Power system/microgrid
	Assistant Professor)	lxli82@uh.edu;		and 3	optimization, network reconfiguration,	operations and planning, day-ahead
		713-743-9881;			power system inertia estimation and	scheduling, real-time dispatching,
		Contact Address:			frequency stability, usage-based battery	frequency regulation, contingency
		4226 Martin			degradation, graph neural network,	analysis, grid ancillary service,
		Luther King			learning-assisted optimization	optimization, machine learning, inertia
		Boulevard N317,			algorithms.	estimation, inertia-constrained grid
		Houston, TX				operations, electricity pricing in
		77204-4005;				wholesale power energy markets,
		Contact Website:				electric network congestion analysis,
		website:				cost-benefit analysis, operation and
		https://rpglab.gith				planning of hydrogen-embedded power
		ub.io/people/Xing				systems, modeling and simulation,
		peng-Li/				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:	C-Corporation	Topic Areas 1, 2,	LineVision is a Grid-Enhancing	LineVision provides utilities with three
		529 Main Street,		and 3	Technology (GET) company founded in	applications which are all enabled by the
		Suite 307, Boston,			2018 that has developed an advanced	company's non-contact LiDAR sensor
		MA 02129			non-contact sensor and analytics	system which is mounted to
					platform that continuously monitors the	transmission tower structures, requiring
					behavior of overhead transmission line	no outages and no live line working
					conductors, detecting anomalies and	techniques. The three solutions are:
					issuing real-time alerts on risks, while	
					unlocking as much as 40% additional	LineRate provides Dynamic Line Ratings
					capacity on existing lines through	(DLR) and Ambient Adjusted Ratings
					Dynamic Line Ratings (DLR).	(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	rgy.com; Contact Phone:	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.
Beneficial Electrification	Contact Name:Alex Hofmann; Contact Address: 3625 N Potomac St Arlington, VA 22213; Contact Email: info@be- league.org	Type: 501 (c)(3) non-pro	Topic Areas 1, 2, and 3	Area of Technical Expertise (bulleted list): -Convening key stakeholders and utilities to discuss electrification and related projects -Electrification and weatherization together programs -Grant program management and small utility consortiums -R&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 organizations. This means BEL can help organizations with the identification and development of pilot programs for demonstration, field validation, and that are inclusive of energy burdened, low- income, and rural communities.

Electrical Consultants,	Crystal Kuntz	Contact Address:	Electrical Engineering	Topic Areas 1, 2,	All services for utility scale, UHV, HV &	ECI provides high voltage, utility scale
Inc.		3521 Gabel Road,		and 3	HVDC electric transmission &	engineering design for transmission &
		Billings, MT			distribution planning, engineering	distribution facilities including
		59101;			design & construction. Smart Grid	underground transmission design.
		Contact Email:			technologies, Metering, System	Expertise includes system monitoring,
		crystal.kuntz@eci			Modeling, Protection & Control.	protection & control design for high
		usa.com;				voltage utility scale projects, utility scale
		Contact Phone:				battery energy storage, microgrid
		406-259-9933				design, adaptive protection design,
						advanced modeling, system hardening,
						smart grid technology design &
						implementation, renewable energy grid
						integration, line rating, advanced power
						control, system planning, projet
						management & execution.
						-

Jupiter Intelligence	Jeff Ward, Global	Contact Address:	Private sector company	Topic Area 1	Jupiter Intelligence™ has created a	Jupiter's ClimateScore™ risk platform
	Federal Climate Account	C/o Jupiter			world-class ClimateScore [™] risk platform	delivers best-in-science physical climate
	Executive	Intelligence; 181			that predicts extreme weather and	risk modeling, forecasting, and analysis
		2 nd Avenue, Suite			climate impacts on infrastructure at	of multiple weather or climate impacts,
		300; San Mateo,			exceptionally-high spatial resolutions	or perils, including but not limited to
		CA 94401;			from a very granular, i.e., asset or	floods, hurricanes, wildfires, and
		Contact Email:			building, level to total portfolios or at	extreme heat/cold, domestically and
		jeff.ward@jupiteri			the community, state, regional,	globally, across multiple climate
		ntel.com; Contact			national, or global levels, over time	scenarios. Jupiter develops asset-level
		Phone: 434-242-			horizons ranging from a few hours to	data, identifies exposures and
		3479			several decades into the future. Jupiter	vulnerabilities, and then evaluates how
					provides physical climate data analytics	those exposures and vulnerabilities
					that can facilitate infrastructure	change over time under various climate
					resilience planning and implementation.	change scenarios. Jupiter's tools enable
					The analytics also can be used for risk	public and private sector entities to
					management and risk disclosure.	make decisions about where and how to
					Jupiter's ClimateScoreTM framework is	locate planned, new infrastructure
					founded upon current and future-	assets, as well as how much hardening
					looking, rather than solely historic, data.	will be required for existing assets or
						whether consideration should be given
						to relocating assets.
UtilityAPI	Heather Williams, Sr. VP	Contact Address:	Energy Data Provider	Topic Areas 1, 2,	UtilityAPI provides data exchange tools	Utility API enables seamless data access
· ····, · · ·		1212 Broadway,	0,	and 3		and behind the meter insights through
		, , , , , , , , , , , , , , , , , , ,				our safe, secure, and standardized data
	-	Oakland, CA			resources and energy efficiency	exchange platform. We also work with
		94612;			technologies.	regulators and local governments to
		Contact Phone:				shape effective utility data access
		(503) 453-2053				policies.

Cornell University	Jacob Mays	Contact Email:	Institution of Higher	Topic Area 3	Transmission system applications:	Expertise in optimization and simulation
		jacobmays@corne	Education			modeling with applications in electricity
		ll.edu			or other approaches that enable a	system planning, operations, and
					transition to innovative financial	market design
					and/or regulatory constructs that	
					accelerate transmission expansion	

Vega MX Inc	Vivek Mital	Contact Address:	Pvt. Company	Topic Area 2	1.Climate Modeling including Wildfire	VegaMX is a US based AI Insights, New
		11 Broadway,	Deleware Corp.	primarily, but	across the life cycle (pre fire/ active	Space Technology firm that uses earth
		#420, New York,		open to being a	phase / post fire). We have been	observation with model and data driven
		NY 10002;		sub for Topic	selected by NASA i Tech Cycle II 2021 for	approaches for addressing food, energy
		Website:		Areas 1 and 3	the same and the pitch is included here	and national security challenges. We are
		www.vegamx.net;			https://www.youtube.com/watch?v=t7	a multinational consortium of experts
		Contact Phone:			goxOQJSdU	with professional experience in disaster
		347 702 1659			2.Space Technology and applications -	& wildfire management, aviation and
					Earth Observation, change detection,	space systems, agroforestry, capital
					wide area monitoring. Sensors :	markets and banking, physics, and data
					Microwave (SAR), Optical, HSI, Weather	science across commercial government,
					(radiometry) etc	and scientific domains. The company
					3.Sensor Fusion, AI/ ML, Physics	has strengths in space sensor
					modeling, Autonomy etc	technology such as microwave and
					4.Software Engineering, Big	optical, designing and operating
					DataSystems Engineering, Business	complex airborne platforms,
					Analysis	atmospheric physics and weather /
					5.Financial Engineering & Capital	climate modeling, AI / ML and massive
					Markets	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		Vehicle-to-grid technology platform	and 3	inverter-based DERs, providing grid edge visibility and control for our utility partners. By aggregating the batteries onboard EVs, we provide grid scale	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 Yulia Buynova	978-989-5413 and	Provider of demand flexibility solutions and digital platforms		 Battery Energy Storage Systems and Microgrid Deployment Energy Supply Management 	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 / 882 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:	For profit enterprise	Topic Areas 1, 2,	Reliable, affordable and sustainable	Combining onshore and offshore wind,
		matthew.clifton@		and 3	energy.	hydro and innovative grid and digital
		ge.com				technologies, GE Renewable Energy has
						installed more than 400 GW capacity
						globally
Wells Rural Electric	Layla Murphy	Contact Address:	non-profit electric	Topic Areas 1 and	Rural electric service; power purchaser	Central power station for rural areas
Соор		1451 Humboldt	cooperative	2	and supplier	surrounding Wells, NV
		Avenue, P.O. Box				
		365, Wells, NV				
		89835; Contact				
		Email:				
		Imurphy@wrec.co				
		op; ph: 775-752-				
		1581				

encoord	Wallace Kenyon	Contact Email:	Energy System		The encoord team has experts in the	encoord curates SAInt, which is a
		wallace@encoord.	Modeling Software	Topic 1 is focused	electricity and gas network spaces. The	coupled energy network software
		com; Contact	Company	on grid resilience,	electricity modeling team has extensive	platform that permits the simultaneous
		Address: 1525		particularly in the	expertise in performing capacity	modeling of electricity and gas networks
		Raleigh Street,		context of	expansion modeling, production cost	to assess the interdependencies and
		Suite 500, Denver,		extreme weather	modeling with DC optimal power flow,	internetwork impacts. Beyond the
		CO, USA 80204		events. With the	and AC power flow for steady state	coupled simulation capabilities, SAInt is
				coupled energy	analysis and quasi-steadystate time	able to do varied timescale modeling of
				network	series analysis. There is in-house	electricity networks, including capacity
				capabilities of	expertise with transmission and	expansion, production cost, and power
				SAInt, encoord is	distribution modeling, including	flow modeling, with larger timescale
				uniquely	familiarity and conversion capabilities	modeling informing the initial states of
				positioned to aid	with certain power system modeling	the shorter timescale modeling. Certain
				transmission	tools such as PSSE, DIgSILENT, CYME,	members of the team are mathematical
				system operators	and OpenDSS.	modelers who are also experts in power
				and planners in		systems operations, which allows the
				assessing the		development of novel simulation
				interdependencies		capabilities within the existing platform
				of electricity and		to meet the rapidly changing
				gas networks,		requirements associated with power
				particularly during		system planning.
				periods of		
				extreme weather		
				when the systems		
				may be under		
				stress.		

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			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.	
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EnerNex	Michel Pastore	Contact Address:	LLC	Topic Areas 1 and	EnerNex is a power systems engineering	EnerNex is a leader in providing
		620 Mabry Hood		2	firm that provides smart grid consulting	engineering, consulting, and research
		Road, Suite 300,			services to help utilities identify, specify,	services to the electric power industry
		Knoxville, TN			procure, implement, and utilize modern	worldwide. Founded in 2003, EnerNex
		37932; Contact			grid technologies and systems. We	offers a cross-cutting blend of expertise
		Name: Michele			address the complex challenges of the	in grid modernization planning and
		Pastore;Contact			electric utility industry by offering	implementation; renewable energy
		Email:			services that span from detailed	engineering, design, and integration;
		mpastore@enern			engineering analyses to strategic	and electric power systems planning and
		ex.com; Contact			guidance. Our wide range of utility	engineering. Services include, but are
		Phone: 865-770-			industry specific technical services	not limited to:Electric Energy System
		4892			enables us to provide broad contextual	Engineering and AnalysisTransmission
					perspective to best resolve the specific	and Distribution StudiesBulk Power
					needs of our utility clients. EnerNex	System Studies / AnalysisPower Quality
					helps clients explore the efficacy of	/ Power Disturbance
					modern utility technologies and systems	TroubleshootingRenewable and
					(e.g. advanced metering, MDMS, ADMS,	Distributed Energy Integration and
					DERMS), the adoption of distributed	InterconnectionSolar converter and
					energy resources (e.g., PV, energy	wind turbine modelingWind and solar
					storage, DR and, NWA), and modeled	integration studiesRenewable plant
					utility scale solar and wind energy	interconnection studiesEnergy Storage
					integration and various microgrid	IntegrationGrid ModernizationSmart
					topologies to explore the system	Metering / AMIDemand
					impacts of integrating these resources	ResponseEnergy Assurance Planning
					on the grid.	–Resilient Energy SystemsMicrogrid

Emera Technologies	Louise Anne Comeau, Vice President Government Relations	Email : la.comeau@emer a.com Tel : 902 266 9728	Manufacturer, Integrator	Topic Area 1, 2	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.	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 (https://www.trccompa nies.com/)	Col Smart	Col Smart Senior Director - Grid Modernization One Gateway Center Suite 2600 Newark, NJ 07102 col.smart@trccom panies.com Ph 1201 780 4230	Engineering, Environmental and Technology Consulting	Topics 1, 2 and 3	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	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; comissioning and on-going operations.

Vermont Public Power	Kenneth Nolan	Contact Email:	Electricity Generator,	Topic Areas 1 and		The Vermont Public Power Supply
Supply Authority		knolan@vppsa.co	Joint Action Agency for	•	Vermont Public Power Supply Authority	Authority (VPPSA) has broad statutory
(VPPSA)		m	(11) Distribution			powers that enable it to provide such
			Providers			services as may be required in support
		(802) 882-8500			,	of the activities of its member municipal
		Contact Address:				utilities and to market its services to non-
		P.O. Box 126				member utilities as it deems
		5195 Waterbury-			-	appropriate. VPPSA provides its
		Stowe Road				members with a broad spectrum of joint
		Waterbury				action services and utility operations
		, Center, VT 05677				support such as: power aggregation,
		Contact Website:			·	power generation, financial support, IT
		www.vppsa.com			Communities (DACs). VPPSA has deep	support, rate planning support and
					experience developing, managing, and	legislative and regulatory
					deploying energy projects, technology	representation.
					solutions, planning support, and	
					regulatory and legislative	
					representation.	
Oracle Energy & Water	Mary Sprayregen	2300 Oracle Way	Technology Vendor	Topic Areas 1, 2, 3	Global provider of SaaS solutions to help	DERMS, NMS, ADMS, MDM provider.
		Austin, TX 78741			utilities increase reliability and resiliency	Customer care & billing. Opower
		mary.sprayregen			& accelerate equitable decarbonization	solutions: customer engagement
		@oracle.com			efforts. Providing scalable solutions that	platform, residential behavioral energy
		802-578-3189			can integrate with other platforms and	efficiency and behavioral demand
					vendors.	response, TOU rates modeling and
						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,	Wayne Cobleigh	249 Vanderbilt	Employee-owned	Topic areas 1, 2,	GZA provides Geotechnical,	Microgrid planning, siting, feasibility,
Inc. (GZA)		Avenue Norwood,	company	and 3	Environmental, Ecological, Water, and	design for climate adaptation and
		MA 02062;			Construction Management services.	resiliency, environmental permitting,
		(781) 278-3848;			GZA's more than 700 professionals are	benefit cost analysis and technical
		wayne.cobleigh@			based in 30 offices in New England, the	consultant to support federal and state
		gza.com			Mid-Atlantic, and the Great Lakes	grant and loan funding.
					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.	

Sense Labs, Inc.	Brandon Dyer	Contact Address:	Technology Vendor	Topic Areas 1, 2,	Founded in 2013, Sense uses machine	Sense has partnered with leading meter
		485		and 3	learning applied to high resolution,	manufacturers to integrate our
		Massachusetts			waveform data to analyze energy usage	technology directly into the next
		Ave, Ste. 4,			in the home, providing real-time insights	generation of smart meters. Sense
		Cambridge, MA,			on device behavior and enabling a wide	connects to the home's Wi-Fi and
		02139 ;			range of customer applications and grid	reports this information through the
		Contact Email:			services to make home smarter and	cloud to the Sense apps for iOS,
		brandon.dyer@se			more efficient and the grid more	Android, and the web. This allows
		nse.com;			reliable.	homeowners to remotely monitor their
		Contact Website:				home's energy in real time right down to
		sense.com;				the second. Sense is developing
		Contact Phone:				behavioral energy efficiency and
		303-489-9101				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.

MPR Associates	Nathan Mitchell	320 King Street,	Power Enginering	Topic Areas 1, 2 or	 ■Bisk Based Maintenance and Capital 	©oncept Development
		Alexandria VA	Services Firm	3	Investment Planning	 Strategy and Program Management
		22314 / 703-519-			eliability and Resiliency Solutions	 Data Governance and Analytics
		0200 /			 Asset Management Strategy 	 Project Development and Delivery
		info@mpr.com /			• Derations Optimization	•Øwners Engineer
		Website:			Grid Modernization	 Asset and Risk Management
		www.mpr.com			● Energy Storage Technology	 Advanced Technology Development
					Development and Deployment	and Deployment
					• Transmission, Substation and	
					Distribution System Project Contracting,	
					Management and Controls	
					● ■eliability, Resiliency and Microgrid	
					Solutions	
					● ■isk Informed Investment and	
					Maintenance Prioritization	
					● ■ower System Planning and Analysis	
					• Power Systems Equipment Reliability,	
					Qualification and Standards	
					● ■ enewable Energy Integration	

Transmission &	Harry Barnes, Jr.,	Contact Address:	Employee Owned	Topic Area 1, 2	Transmission and distribution lines,	Located in Albuquerque, New Mexico,
Distribution Services,	Managing Member	9550 San Mateo		and 3	substations, protective relaying and	T&D has served IOUs, electric
LLC		Blvd. NE, Suite G			system protection, SCADA, testing and	cooperatives, municipal and tribal
		Albuquerque, NM			commissioning, construction	utilities for over 15 years. Our qualified
		87113			administration and management, power	engineering and surveying personnel
		Contact Email:			delivery, power generation (including	work together to provide effective
		hbarnesjr@t-d-			wind and solar), surveying, GIS mapping	solutions and support to our clients with
		services.com			and LIDAR scanning, and consulting for	regard to system upgrades,
		Contact Website:			support on project development,	maintenance, and planning. We have
		https://www.t-d-			licensing and permitting, contract	extensive experience navigating RUS,
		services.com			development and negotiating, project	BLM, BIA, FERC, NESC, and RUS
		Contact Phone:			financing, site selection and	regulations, working with client-specific
		(505)344-4234			environmental assessments, conceptual	standards, and acting in compliance with
					and preliminary engineering studies,	the cultural concerns of tribal entities.
					plant performance modeling,	
					procurement services, value	
					engineering studies, risk and condition	
					assessments, financial proforma	
					development and analysis, project	
					implementation and compliance	
					reviews, project capital and lifecycle	
					cost estimates, and grant writing and	
					administration.	

Idaho Falls Power	Josh Roos	Josh Roos 140 S.	Municipal electric	Topic Area 1, 2 &	IFP, in partnership with the Idaho	IFP owns and operates two FERC
		Capital Ave, Idaho	utility	3	National Lab (INL), has tested our own	licensed hydroelectric projects with four
		Falls, ID			hydro-electric project for black start and	impoundments powering six
		83402/jroos@ifpo			islanding potential which provided the	hydroelectric generators, having a
		wer.org/208-612-			reassurance thaht needs can be met. IFP	combined name plate capacity of 50.2
		81203			was also partner to the Pacific	MW of generation. IFP also owns three
					Northwest Smart Grid Demonstration	MW of total generation from the Horse
					Project from 2010 - 2014. The projects	Butte Wind project and is currently in
					IFP participated in include; automated	negotiations to expand this project.
					power factor control, distribution	Also, IFP operates a small solar
					automation, voltage reduction, plug-in	installation located at 140 S. Capital
					hybrid electric vehicles, and battery	Avenue. Together, these projects
					incorporation into the grid. These	produce enough electricity to meet 35%
					efforts garnered invaluable experience	of the City's annual electricity
					and education for the IFP staff and	requirements. Additional assets include
					demonstrates a successful history of	12 substations, 27 miles of 161 kV
					partnering with other utilities and	transmission, 25 miles of 46 kV sub-
					entities for successful outcomes.	transmission, 524 miles of distribution,
						and 703 miles of fiber to-the-home.

Sentient Energy	Bob Karschnia, Chief	15815, Executive	Technology Solution	Grid Reliability	Network Topology Optimization,	Sentient Energy provides a
Sentient Energy			Provider	Grid Kellability	Advanced Power Flow Analysis, real-	comprehensive solution for both
		Frisco, TX 75035,	FIOVICEI		time Grid Monitoring, Situational	overhead and underground distribution
						_
		bob.karschnia@se			Awareness, Outage frequency and	circuit grid monitoring and grid edge
		<u>ntient-</u>			customer minutes interrupted time	control sensors, smart devices, grid
		energy.com,			reduction , wildfire risk mitigation	management software and analytics.
		<u>Phone: 46-296-</u>				We also offer IT and technical services
		<u>1122</u>				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
Sentient Energy	Giri Iyer, Vice President,	15815, Executive	Technology Solution	Grid Resiliency	Network Topology Optimization,	Sentient Energy provides a
	Corporate Development	Drive, Suite 300,	Provider		Advanced Power Flow Analysis, real-	comprehensive solution for both
		Frisco, TX 75035,			time Grid Monitoring, Situational	overhead and underground distribution
		giyer@sentient-			Awareness, Outage frequency and	circuit grid monitoring and grid edge
		energy.com,			customer minutes interrupted time	control sensors, smart devices, grid
		Phone: 469-636-			reduction, momentary outages and pre-	management software and analytics.
		2732			outage incipient fault anomaly	We also offer IT and technical services
					detection, current direction change,	to improve Advanced Power Flow
					wildfire/weather event risk mitigation	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
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Sentient Energy	John Costello, Senior	15815, Executive	Technology Solution	Grid Flexibility	Network Topology Optimization,	Sentient Energy provides a
	Vice President, Global	Drive, Suite 300,	Provider	,	Advanced Power Flow Analysis, real-	comprehensive solution for both
	Sales	Frisco, TX 75035,			time Grid Monitoring, Situational	overhead and underground distribution
		john.costello@sen			Awareness, Outage frequency and	circuit grid monitoring and grid edge
		tient-energy.com,			customer minutes interrupted time	control sensors, smart devices, grid
		<u> Phone : 469-389-</u>			reduction, momentary outages and pre-	management software and analytics.
		<u>8908</u>			outage incipient fault anomaly	We also offer IT and technical services
					detection, current direction change,	to improve Advanced Power Flow
					load change detection, grid edge viltage	Analysis and Control as well as Network
					stabilization, power quality	Topology Optimization. Customers
					improvements, wildfire/weather event	should be able to facilitate interconnect
					risk mitigation, DER/microgrid	of DER/EV and Microgrid buildout at the
					interconnect acceleration	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/year.
Oracle Energy & Water	Mary Sprayregen	2300 Oracle Way	Technology Vendor	•	Global provider of SaaS solutions to help	
		Austin, TX 78741			utilities increase reliability and resiliency	C .
		mary.sprayregen				solutions: customer engagement
		@oracle.com			efforts. Providing scalable solutions that	
		802-578-3189			can integrate with other platforms and	efficiency and behavioral demand
					vendors.	response, TOU rates modeling and
						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.
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GDS Associates, Inc.	Julio Rovi	Contact email:	C-type Consulting firm	Areas 1, 2, and 3	GDS covers a broad spectrum of utility	GDS provides program design, grant
		julio.rovi@gdsass	founded in 1986		services, particularly cooperatives and	preparation assistance, group
		ociates.com.			municipal utilities. We provide support	facilitation, program implementation,
		Main 770-799-			and technical assistance to governments	and evaluation services. For GRIP, we
		2385.			and public service commission	serve state agencies and utilities and
		Cell 407-851-			nationwide. For utilities, GDS serves as	aim to assist in the success of this
		9886.			their engineering department for	funding opportunity.
					electricity generation, transmission, and	 Full range of energy engineering
					distribution. Areas of expertise include:	services.
						 Stakeholder engagement, marketing,
					 Cost of service studies 	and recruitment. •Facilitation, capacity-
					 Demand Response, Demand-side 	building, and technical support.
					management	 Facility energy audits, hardening,
					 Distributed Energy applications 	sustainability, and design for viability.
					 Battery Energy Storage and Microgrid 	 Project conceptualization, design,
					design	estimating costs, and administrative
					 Energy Supply Management 	arrangements.
					 Utility-Scale Energy Storage Solutions 	 Program and project administration,
					 Energy Efficiency 	reporting, and documentation.
					 Renewable Energy 	 Smart city applications, EV charging,
					 Sustainability and climate studies 	electrification of transportation.
					 Smart EV Charging 	
					 Energy studies 	

Smart Wires Inc.	Ted Bloch-Rubin	Address: 1035	C-Corporation	Topic Area 1, 2,	Smart Wires delivers high-impact	Smart Wires' APFC device, the
		Swabia Ct., Suite		and 3	technology and services that create a	SmartValve, is an innovative, digital
		130, Durham, NC			digital, secure and accessible power	power flow control technology. These
		27703			system – accelerating renewable energy	devices rapidly unlock network capacity
		Email:			adoption and wide-scale electrification.	by pushing power off overloaded lines
		ted.blochrubin@s			To this end, SmartWires collaborates	or pulling power onto underutilized
		martwires.com			with leading global utilities across 4	lines. SmartValve installations
					continents to deliver three key service	historically unlock between 170GW and
					offerings: advanced power flow control	1.5GW of latent transmission capacity
					(APFC) devices, system rating software,	for our customers. Smart Wires also
					and advanced analytics services. Smart	offers FERC Order 881-compliant, sensor-
					Wires is based in Raleigh, NC and the	based AAR and DLR technology, SUMO.
					APFC devices are manufactured in	SUMO insights can be used to increase
					Florida.	grid capacity and improve operational
						security. This hardware-free technology
						can also be deployed faster and at a
						lower cost compared to traditional
						rating technologies. From an analytics
						perspective, Smart Wires' team of
						power system experts use advanced
						software and modeling to develop
						solutions for generation and load
						connections, and power system
						operation and planning constraints to
						optimize technology installations.