| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Powdermet, Inc | Andrew Sherman | Small business, opportunity zone, HUB zone | Materials science, thermal energy long durations storage systems, phase change materials, rare earth free magnet materials | Materials synthesis, encapsulated metallic phase change materials, thermal energy storage, rare earth free magnetic materials. | Thermal energy storage | Contact Email: ajsherman@powdermetinc.com Contact Phone: (818) 416-6178 Address: 24112 Rockwell Dr, Euclid, Ohio 44117 |
| Machina Labs, Inc. | Dr. Babak Raeisinia | Small Business | Robotic Sheet Metal Manufacturing, Robotic Metal Manufacturing, Advanced Metals and Alloys | Machina Labs is an advanced manufacturing company based in Los Angeles, CA. Machina Labs is working towards its vision of the Factories of the Future, which are software-defined and take advantage of off-the-shelf kinematic solutions, Al/ML, simulations, and advanced sensors. As such, the company has set up its proof-of-concept robotic manufacturing facility in LA. The facility, which houses 22 industrial robots, is currently focused on robotic sheet metal forming. Electrified process heating is an important area of interest as the company has sponsored some preliminary work on that front with the aim of localized robotic heat-treatment. | Collaborative Research, Development, and Demonstration of Electrified Heating Process Modeling and Optimization Tools | Contact Email: br@machinalabs.ai Contact Phone: (770) 769-0114 Address: 9410 Owensmouth Ave, Chatsworth, CA 91311 |
| Purdue University Northwest, CIVS & SMSVC | Chenn Zhou | University | Modeling, Simulation, Visualization, Machine Learning, Digital Twins, Induction Heating, Electrode Plasma Heat Transfer, Applications to iron/steel making processes, melting, drying, pre-heating, annealing, hydrocarbon cracking | The Center for Innovation through Visualization and Simulation (CIVS) is a multidisciplinary center that combines advanced simulation techniques with 3D visualization and virtual-reality technologies. Utilizing state-of-the-art digital technologies to provide innovative solutions to real-world problems, CIVS has been globally recognized for its integrated and application-driven approach. Through close partnerships with more than 160 external organizations, CIVS continues to make substantial educational and economic impacts, resulting in over \$40 million in savings for collaborators. | Collaborative Research, Development, and Demonstration of Electrified Heating Technologies; Process Modeling and Optimization Tools; and Workforce Development and Education | Contact Email: czhou@pnw.edu Contact Phone: (219) 989-2665 Address: 2200 169th Street, Hammond, IN 46323 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Solugen, Inc | Dr. Benjamin Zalisko | Company | Chemistry, Biochemistry, Chemical Engineering | Solugen makes a variety of chemical products from biological feedstocks using processes that are cell-free, waste-free, and emission-free. In 2021, Solugen fully scaled to 10,000 tons of product per year at its Houston facility. Now, entering a stage of rapid growth, Solugen plans to build 5 more of those chemical plants over the next 5 years, using the latest green-energy technology. | Solugen is building new manufacturing facilities with hopes to include fully-integrated, customized electric process heating systems. We are interested in financial support for these new systems and integrating other new technologies | Contact Email: benjamin.zalisko@solugen.com Contact Phone: (832) 295-8570 Address: 14549 Minetta St, Houston, TX 77035 |
| Rensselaer Polytechnic Institute Center for Future Energy Systems (CFES) | Brian Apkarian | Research University | Solar and wind energy, energy storage, electrification, green hydrogen, smart-grid, and energy efficient technologies | Located on the campus of Rensselaer Polytechnic Institute in Troy, NY. Our center is one of Empire State Development's Division of Science, Technology & Innovation's 15 designated Centers for Advanced Technology. Dr. Jian Sun is the Director of the center and leads a team of over 30 research faculty and support staff. Our mission is to pair the talent and resources of a world-leading research university with industry innovators to move technology from the lab to the marketplace for an energy-sustainable future. | To be a R&D collaborator with industry and other partners | Contact Email: apkarb@rpi.edu Contact Phone: (518) 276-6953 Address: 110 8th Street, Troy, NY 12180 |
| C2A Sustainable Solutions, LLC | Riyaz Papar | LLC | Industrial thermal system optimization | Energy and engineering consulting; Industrial Energy Efficiency Projects - design, specify, implementation; Capacity building – Best practices training & resource development | Industrial sectors; process heating; process cooling; refrigeration; steam; chilled water plants | Contact Email: rapapar@c2asustainable.com Contact Phone: (281) 610 5561 Address: 14 Split Rail Place, The Woodlands, TX 77382 |

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| Name HiT Nano | Dr. Christopher Abram | Type Small business | Expertise Advanced manufacturing of energy storage and conversion materials including Li-ion battery materials, thermal energy storage media, and catalysts | Brief Description of Capabilities Green materials synthesis using electric heating, scale-up, materials characterization, battery characterization | Collaborative Research, Development, and Demonstration of Electrified Heating Technologies | Contact Information Contact Email: cabram@hitnanoinc.com Contact Phone: (267) 824-6777 Address: 1200 Florence Columbus Road, Bordentown NJ 08505 |
| Heavy Oil Solutions, Inc. | Steve Yarbro | For profit small business (<10 full-time employees) | Chemical, electrical and mechanical engineering design, modeling and operation of direct electrically-heated, high-temperature (500 deg C currently) and high-pressure (4000 psig currently) tubular electrochemical reactors for processing petroleum compounds | Heavy Oil Solutions (HOS) has built and is currently testing and operating a tubular electrochemical reactor (TER) to take advantage of the benefits of process and chemistry electrification in the renewable fuel and fossil fuel industries. HOS is researching combined electrolysis and TER that addresses the question of how multiple components are designed that work together to enable stable, efficient electrolysis for carbon-free production of hydrogen from water. One of the initial research goals was to increase the efficiency of producing supercritical water in a commercially scalable reactor design. Direct electrical heating of the tubing, exploiting the electrical resistance of the tubing, enables a simple, clean reactor design (no furnace enclosure or external heater bands) and electrical energy to heat conversion efficiencies of 90%. Furthermore, it enabled precise wall temperature control, eliminating local overheating that caused 'coking' and reactor plugging with conventional heating methods. | Collaborative Research, Development, and Demonstration of Electrified Heating Technologies | Contact Email: steve.yarbro@heavyoilsolutions.co m Contact Phone: (505) 412-2934 Address: 5101 College Blvd, Farmington, NM 87402 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Raytheon Technologies Research Center | Dr. Ying She | Large Business | Process modeling and simulations such as C/C CVI process for carbon brake manufacturing, CMC interface coatings and matrix densification fabrications. Various process developments such as thin film depositions, H2 production and separation for fuel cell applications, etc. Chemical reaction kinetics and thermodynamics. Material processing for additive manufacturing. | RTRC, the corporate research center for Raytheon Technologies Corporation (RTX), is headquartered in a 420,000 ft2 complex in East Hartford, CT. RTRC plays a key role as the corporation's innovation engine, focusing on advanced technologies. The center employs approximately 300 research scientists, engineers, and support staff, 80% of whom are technical staff (75% of technical staff have advanced degrees). RTRC performs basic, applied and exploratory research in a broad spectrum of technologies including chemical sciences, fluid mechanics, electronics materials and structures, information technology, and systems technology. The center has component and system level modeling tools, material development laboratories, fabrication and characterization laboratories, and combustion test facilities for component and prototype system testing | Development of process modeling and optimization tools; Technology and market analysis; Improvement of electrification efficiency via exploring innovative manufacturing processes. | Contact Email: ying.she@rtx.com Contact Phone: (860) 610-7070 Address: 411 Silver Lane, East Hartford, CT 06118 |
| Infineon Technologies Americas Corp. | Tim McDonald | | Infineon Technologies has broad expertise in power conversion systems, solutions, and components. | Infineon Technologies Americas Corp. provides semiconductor solutions to support digitalization and electrification. The Company designs, manufactures, and markets power semiconductors, microcontrollers including security ICs, LED drivers, sensors, automotive, and power management ICs as well as a range of additional products. Experienced with fitting semiconductor and software products to their end system requirements. We can complement academic, national lab and industrial systems companies to partner on solution and path finding for electrification of thermal processing. | We can complement academic, national lab and industrial systems companies to partner on solution and path finding for electrification of thermal processing. | Contact Email: Tim.McDonald@infineon.com Contact Phone: (310) 528-9976 Address: 101 N Pacific Coast Hwy El Segundo, CA, 90245-4318 |

| Organizati Name | ion Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Siemens Corporation Technology | | Large Business | Industrial Process Modeling, Simulation, Control and Automation, Additive Manufacturing & Materials, and Sustainable Manufacturing | Siemens provides advanced process modeling tools, plant simulation & automation, and environments covering the entire process lifecycle, from R&D through Engineering Design to Operations and Manufacturing. Siemens has expertise in decarbonization of industrial sites and processes including electrification and fuel switching (e.g. to hydrogen). In particular, Siemens Process Systems Engineering (Siemens PSE) offers the gPROMS® advanced process modeling platform for digital process design and operations. In addition to providing the modeling software technology that can simulate and optimize electrified processes, Siemens PSE has a team of experienced process modeling engineers who can support the development and application of such models. | Collaborative Research, Development, and Demonstration of Electrified Heating Technologies Process Modeling and Optimization Tools | Contact Email: erika.gupta@siemens.com Contact Phone: (609) 216-6248 Address: 755 College Road East, Princeton, NJ 08540 |

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| Name | Name | Туре | Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
| Treasure8 LLC | Timothy Childs | For-profit organization | Treasure8 is a technology and partnership platform focused on Decarbonizing, Degassing through Dehydration. Our core patented technology is exclusively licensed from the USDA and is a unique and proprietary system of food dehydration that utilizes energy-efficient processes to drive increased sensory benefits while lowering energy costs. Our technology can produce freezedried ingredients with surprisingly lower costs and with higher quality while reducing carbon to accompany greater food safety. | Treasure8 is the leading expert and exclusive global provider for SAUNA technology. SAUNA is a low-energy source to achieve simultaneous dry blanching and quick partial dehydration of fresh vegetables and fruits (as well as most food groups), followed by final drying using either hot air or Freeze-drying and potentially any other industrially useful drying technology. SAUNA technology consistently provides benefits of energy & GHG savings, nutritional retention, and sensory superiority to other methods of drying than those they would achieve by themselves. | Collaborative Research, Development, and Demonstration of Electrified Heating Technologies Process Modeling and Optimization Tools for Decarbon and Degasssing in Dehydration Technology and Market Analysis Energy Justice and Diversity, Equity, Inclusion, and Accessibility (DEIA). | Contact Email: grants@treasure8.com Contact Phone: (415) 291-9192 Address: 6257 Gordon Valley Rd. Napa, CA 94558 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Texas State University | Andres Carvallo | University | | We are moving our advanced prototyping labs into a Smart Factory Lab at STAR Park (our 100 acres smart cities research location) that will house prototyping, modeling, flexible assembly, and small volume manufacturing Industry 4.0 capabilities. Our manufacturing, industrial, electrical and mechanical engineering programs collaborate in designing, prototyping, modeling and building next generation solutions using new materials, Al/ML, Internet of Things, processes, methods and tools. Digital Twining is a core competency that we bring to this new lab. Additionally, we are building a smart Energy lab (10,000 sq. ft.) and a smart utilities lab (5,000 sq. ft.) focus on applied research about Solar PV, fuel cells, energy storage, EV charging, V2G/V2X, tracking systems, energy management systems (VVO / DRMS / DERMS / VPP), metering, trading systems, blockchain, Al/ML/Analytics, and green hydrogen; as well as Smart grid management (Sub / Transformers / Distribution-Wires, meters, systems (e.g. DCS / GMS / OMS / DMS / ADMS / AMI), SCADA and energy management systems, control systems (CVR, FDIR, FLISR, Power Factor, Harmonics, Modulation, Power Electronics), Transformers, Reclosers, Switches, Feeders, Tap Changers, Bushings, HV Wires, MV Wires, LV Wires, Cap Banks, energy storage, EV charging, metering, trading systems, blockchain, Al / ML / Analytics, communications networks, cybersecurity. | Collaborative Research, Development and Demonstration of Electrified Heating Technologies. Process Modeling and Optimization Tools. | Contact Email: andres.carvallo@txstate.edu Contact Phone: (512) 968-8108 Address: |

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| Name | Name | Туре | Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
| Electric Power Research Institute | Baskar Vairamohan | Non-profit Organization | EPRI focuses on Collaborative Research, Development and Demonstration projects with enduse industrial customers through utility-industry partnership. | EPRI engages with electric utilities, technology providers, industry trade organizations to conduct research and technical applications of innovative electric process heating technologies, and technology training on end-use technologies. These engagements include models and tools development to conduct technology market analysis. EPRI also works with government organizations and utilities in technology demonstration projects, and performs facility technical energy, electrification, water and carbon assessments. Additionally, EPRI conducts technology training for workforce development through EPRI U. | Collaborative R,D & D, technology training, workforce development and education, technoeconomic analysis, electrification and energy assessment. | Contact Email: bvairamohan@epri.com Contact Phone: (865) 218-8189 Address: 942 Corridor Park Blvd, Knoxville, TN - 37932 |
| Oklahoma State University | Zheyu Jiang | Academic institution | Process modeling and optimization, energy systems modeling, distillation process synthesis and design | My research group has rich research experience and technical expertise in conceptual process synthesis and design, mathematical modeling optimization of distillation systems. In particular, the PI had the experience to develop the first optimization tool that, for a given multicomponent distillation task, screens through all possible distillation configurations and identifies the ones with lowest minimum exergy loss requirement, while determining their corresponding optimal operating conditions. Exergy loss is a quantity that measures the energy required to drive distillation purely using work (i.e., electricity) instead of heat. Therefore, this optimization tool can be directly used to identify attractive distillation configurations that are attractive for using heat pumps, which is an effective way of replacing process heating with electricity. Furthermore, the PI has worked on process intensification of multicomponent distillation systems and proposed a new systematic procedure for synthesizing new and fully operable heat-pump assisted distillation systems that can save up to 50% of energy consumption compared to conventional columns. | Process Modeling and Optimization Tools | Contact Email: zheyu.jiang@okstate.edu Contact Phone: (405) 744-3320 Address: 420 Engineering North, Stillwater, OK 74078 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Oak Ridge National Laboratory | Bill Peter | DOE National Laboratory / Federally Funded Research and Development Centers (FFRDC) | modeling simulation; data analytics, visualization and artificial intelligence; controls and automation; experimentation including new materials and systems; industrial assessments and computation tool development; and new approaches to technology deployment, manufacturing analysis and simulation, composites and polymer systems, metal powder systems, metrology and characterization, machine tooling, large-scale metal systems, and robotics and automation | ORNL has four decades of experience leading key efforts in the electrification of industrial processes and has significant expertise and capabilities related to this area. ORNL draws upon unmatched capabilities in materials, neutrons, and computational science to develop innovative manufacturing technologies, helping large and small companies alike. ORNL works with original equipment manufacturers, material suppliers and end users to revolutionize the way products are designed, built, post-processed and qualified. Research and development in advanced manufacturing enables opportunities for product customization, improved performance, multifunctionality and lower overall manufacturing costs. ORNL's Manufacturing Demonstration Facility (MDF), established in 2012, is one of the Department of Energy's designated user facilities focused on performing early-stage research and development to improve the energy and material efficiency, productivity, and competitiveness of American manufacturers. The MDF has over 100 electric based systems and process technologies with research focused on manufacturing analysis and simulation, composites and polymer systems, large-scale metal systems, metal powder systems, machine tooling, robotics and automation, process heating and drying and metrology and characterization. | Collaborative Research, Development, and Demonstration of Electrified Heating Technologies: Process Modeling and Optimization Tools Technology and Market Analysis Workforce Development and Education Energy Justice and Diversity, Equity, Inclusion, and Accessibility (DEIA) | Contact Email: peterwh@ornl.gov Contact Phone: (865) 241-8113 Address: 1 Bethel Valley Rd, Oak Ridge, TN 37830 |
| Malachite Technologies, Inc. | Alex Welsh, Engineering Director | Small Business, C- Corp | Process reactor design and integration with a focus on microwave/RF assisted heating, thermal and non- thermal plasmas, and induction heating. | Engineering design (mechanical, electrical, controls) Process development and demonstration Hardware integration of R&D and pilot scale processing systems | Process reactor design and integration with a focus on microwave/RF assisted heating, thermal and nonthermal plasmas, and induction heating. | Contact Email: awelsh@malachitetech.com Contact Phone: (415) 787-2509 Address: 2262 Palou Ave San Francisco, CA 94124 |

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| Organization Name | Contact Name | Organization Type | Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
| University of Arizona, Department of Aerospace and Mechanical Engineering | Peiwen Li | Academia, Public University | Thermal-science; heat/mass transfer and enhancement; multi-physics of electrochemical devices for energy and power application; optimization of concentrated solar power system | Lab has equipment and capabilities for measurement of high temperature thermophysical properties of molten salts and solid materials. Molten chloride salt test loop capable of measuring heat transfer, corrosion at temperatures up to 800 oC. A water circulation loop to test heat transfer enhancement of pipes. Algorithm for optimization of concentrated solar power system. Experience of experimental characterization of thermophysical properties, heat transfer. | Characterization of thermophysical properties of high temperature heat transfer fluids and solids for concentrated solar power. Thermal energy storage analysis and optimization. Special and efficient heat exchangers. Solar energy driven clean water technologies. Electrolysis and fuel cell development and optimization Concentrated solar power system optimization | Contact Email: peiwen@arizona.edu Contact Phone: (520) 529-1879 Address: 1130 N. Mountain Ave. Tucson, AZ 85721. |
| UTC Institute for Advanced Systems Engineering University of Connecticut | Dr. Ravi Gorthala | Academic Institution | Model Based Systems Engineering/ Process Modeling and Optimization; Demonstration of Electrified Process Heating Technologies | | | Contact Email: ravi.gorthala@uconn.edu Contact Phone: (828) 772-1287 Address: 159 Discovery Dr. #204 Storrs, CT 06269 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| University of Colorado Boulder | Rishi Raj | University | Ultralow Energy Processing of Free- Form Three- Dimensional Ceramic Bodies by the Touch Free Flash Sintering Method | Professor Raj is the inventor of "flash sintering" (first publication in 2010: Cologna M, Rashkova B, Raj R. Flash Sintering of Nanograin Zirconia in< 5 s at 850 C. Journal of the American Ceramic Society. 2010;93(11):3556–3559). Here electric current was injected directly into the powder pressed ceramic sample (zirconia) to have it sinter in a few seconds at ultralow furnace temperatures vs. conventional sintering that requires several hours at 1400 oC. One criticism of the above technique has been the difficulty of applying electrodes to a body of an arbitrary shape to achieve uniform densification. In a brand new paper it is shown that flash sintering can be accomplished in free floating specimen by the superimposition of magnetic fields (Jalali SIA, Raj R. Touch-free flash sintering with magnetic induction within a reactor activated by the usual flash method. Journal of the American Ceramic Society. 2022;n/a(n/a):2022;1–6. https://doi.org/10.1111/jace.18601), which can now be used for commercial application of the flash method. The flash method used less than 1% of electrical energy for full densification as compared to conventional furnace heating methods. Therefore, this technology can be a great asset to the Institute that will be launched under this FOA. | | Contact Email: rishi.raj@colorado.edu Contact Phone: (303) 492-1029 Address: Department of Mechanical Engineering 1111 Engineering Drive University of Colorado Boulder Boulder, CO 80309 |
| KVA Stainless | Dr. Daniel Codd | Small Business | Metals thermal processing electrification and intensification R&D | Integrated heat treatment technology and application development for advanced high strength steel and other alloys; production seamwelded tubing mills and mechanical testing with advanced characterization tools. Collaborative process optimization development with industrial partners. | | Contact Email: dcodd@kvastainless.com Contact Phone: (760) 489-1500 Address: 2802 Luciernaga St, Carlsbad, CA 92009 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Electrified Thermal Solutions, Inc. | Joey Kabel | Small business | Industrial electrification, energy markets, electric heating, energy storage, heat transfer, high temperature materials development. | We are building the Joule Hive: an energy storage technology that converts and stores cheap, renewable electricity as high-temperature heat. Our patented bricks and system configuration can deliver near-flame temperature air (among other gases) to act as a drop in replacement for fossil fuels, reducing operating costs and emissions of any co-located industrial plant. | Collaborative Development and Demonstration of Electrified Heating Technologies. | Contact Email: joey.kabel@electrifiedthermal.com Contact Phone: (360) 481-0255 Address: 407R Mystic Ave STE 32A, Medford MA 02155 |
| Advanced Renewable Technology International Inc. | Bernardo del Campo | Small Business | Pyrolysis reactors manufacturing/carb on sequestration technologies | ARTi possesses vast experience in cost-effective top-of-the-line pyrolysis reactor manufacturing technologies as well as in R&D areas related to biochar, activated biochar, "green" carbon black, and micronized biochar. ARTi develops complete, automated, and modular biochar production systems. | | Contact Email: Grants.Team@ARTi.com Contact Phone: (515) 495-5175 Address: 101 S West Street, Prairie City, IA 50228 |
| Southwest Research Institute | Josh Mangum | 501(c)(3) Non- profit | Electrified processes and infrastructure | Technology development and engineering analysis capabilities addressing power systems or chemical processes for decarbonization. SwRI is an independent non-profit research institute focusing on applied R&D. Founded in 1947, SwRI's 2700 staff members perform science and engineering research for clients and partners across many industries on a 1500-acre campus with over two million square feet of lab space. | | Contact Email: josh.mangum@swri.org Contact Phone: (210) 522-3928 Address: 6220 Culebra Rd San Antonio, TX 78238 |
| Forest Concepts, LLC | Dr. James Dooley | Small Business | Biomaterials physical and mechanical properties, comminution, drying. Sorting, preprocessing | Forest Concepts is a technology development, engineering sciences, and toll processor with expertise across all plant-based biomass species. Drying research and tech support includes energetics, kinetics, modeling, RF and hot air processes, and systems analysis. | | Contact Email: jdooley@forestconceps.com Contact Phone: (253) 880-2668 Address: 3320 West Valley Hwy. N., Ste. D110, Auburn, WA 98001 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Lawrence Berkeley National Lab | Chun Chang | National lab | Low-temperature waste heat recovery, storage, and electrification; Functional nanomaterial manufacturing; Geothermal energy recovery; Underground thermal energy storage. | Functional nanomaterial synthesis for low-temperature heat recovery and storage; Low-temperature heat electrification; Large-scale modeling of geothermal energy recovery and underground thermal energy storage | Low-temperature heat recovery, storage, and electrification; Renewable energy electrification; Subsurface energy recovery and storage. | Contact Email: chunchang@lbl.gov Contact Phone: (510) 345-8308 Address: 1 Cyclotron Rd., Berkeley, CA 94720 |
| Princeton University and Princeton Plasma Physics Laboratory | Emily Carter | University and National Laboratory | Plasma science for process heating and coupling to catalytic processes. Chemical kinetics, plasma chemistry, energy materials synthesis, high-temperature synthesis. | Comprehensive computational model of reacting, flowing plasma coupled with catalysts. The initial application is for plasma pyrolysis and catalysis of methane to make H2 and carbon nanotubes, but the framework can be extended to other high-temperature reaction systems. Experimental system to measure plasma catalysis of methane to form H2 and carbon nanotubes. Demonstration facility of electrified energy-storage materials synthesis from aerosols (air heating and droplet vaporization) Demonstration facility of plasma-assisted energy-storage materials recycling (air heating and chemical processing) Advanced diagnostic facilities for chemical kinetics and plasmas Demonstration facility of roll-to-roll high-temperature manufacturing for novel catalysts (e.g., high entropy), energy membranes (e.g., various ion conductors for fuel cells and batteries), metals, and ceramics. | | Contact Email: eac@princeton.edu Contact Phone: (609) 258-5391 Address: 41 Olden Street, Princeton, NJ 08544-5263 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Armstrong Engineering Associates | Dr. Dennis O. Dever | For Profit Business | USA based international manufacturer of engineered equipment with inhouse research and engineering. Supplies a wide variety of electric heaters for most demanding applications. | Manufacturer of engineered equipment based on over forty years of in-house research and development with assistance from consultants recognized worldwide. Successful products based on internal research are electric radiant heaters, electric immersion heaters, electric impedance heaters, direct contact electric resistance heaters, solid-liquid electric heaters, electric vaporizers, electric tank heaters, electrically heated endothermic catalytic reactors, solid state control systems, and related automation. Armstrong provides training for engineers, technicians, maintenance, operators, welders, and labors. | To manufacture electric heater pilots and bench top test units, to plan, consult, and execute realworld research suitable for commercialization, and to contribute business intelligence on current barriers and roadblocks and the state-of-art internationally. To collaborate on opensource software development and material testing. | Contact Email: ddever@armstrong-chemtec.com Contact Phone: (609)432-0694 Address: 1845 W. Strasburg Road Coatesville, PA 19320 |
| Lydian Labs, Inc | Branko Zugic | Small business | Industrial electrification, industrial decarbonization, electrification of process heat, catalysis, CO2 upgrading, low- carbon fuels and chemicals production | Lydian is developing a novel electro-thermal reactor system for the electrification of catalytic process heat. Our lab is equipped for catalyst/reactor development, testing, and scale-up. Our team has a broad range of experience including advanced manufacturing, catalyst development, reactor design, and commercialization. | | Contact Email: branko@lydianlabsinc.com Contact Phone: (508) 414-8555 Address: 444 Somerville Ave, Somerville MA 02143 |

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| Fraunhofer USA, Inc. | Laurie Fuciarelli | Non-profit 501c3 | - Energy systems engineering - Distributed energy resource integration and field testing - Surface engineering, coatings and power laser manufacturing - Software systems engineering, testing and validation - Artificial intelligence and machine learning - Pilot scale production and automation - Biomedical devices and systems | Fraunhofer USA,Inc. is a non-profit 501c3 organization collaborating with industry, universities, state and federal partners on applied research and development projects. We are in the high-tech problem solving business utilizing world class scientific and engineering expertise to respond to technical challenges, to design and develop prototypes, to validate and proof manufacturing processes. With our projects we aim to bridge the technology readiness gap from basic research to bringing innovations to market. We derisk ideas, concepts and early stage discoveries to identify investment opportunities to scale up promising technologies to commercial deployment. | Creating innovation through a sustainable collaborative research, development, demonstration and deployment environment that accelerates technology transfer from labs to markets achieving relevant societal impact. | Contact Email: Ifuciarelli@fraunhofer.org Contact Phone: (734) 354-4337 Address: 44792 Helm Street, Plymouth, MI 48170 |

| Organization Name | Contact Name | Organization Type | Area of Technical Expertise | Brief Description of Capabilities | Area of Interest | Contact Information |
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| Colorado School of Mines | Michael Kaufman | Research University | Energy Systems: Fossil-based, Nuclear and Renewable Energy; High Temperature Electrochemistry; Green and Blue Hydrogen; Materials; Steel and non-Ferrous Metals Processing and Products; Novel Induction Heat Treating; Advanced Energy Systems; Clean Water Innovation; Critical Materials/Minerals; Carbon Capture, Utilization and Storage; Supply Chain Transparency And Resiliency | Mines has considerable expertise and supporting capabilities in the areas of technical expertise, extensive industry collaborations, and has developed many consortia involving companies who work with faculty and students to solve industrially-relevant problems. | Collaborative Research, Development, and Demonstration of Electrified Heating Technologies; Development of Process Modeling and Optimization Tools; Workforce Development and Education | Contact Email: mkaufman@mines.edu Contact Phone: (303) 273-3009 Address: 1500 Illinois St. Colorado School of Mines Golden, CO 80401 |
| ICE Thermal Harvesting | Rob Bordenave | For Profit Limited Liability Company | ORC power generation. Modular heat exchanger design | By leveraging proven heat-to-power concepts, ICE harvests heat from various processes and converts it to emissions-free electricity through a modular, mobile system design for plug-and-play use. There is no civil infrastructure or third party EPC engagement required. ICE markets to various industries and our technology has process stream flexibility, functioning with liquid, vapor, or mixed-phase. | | Contact Email: rob.bordenave@ice-th.com Contact Phone: (661) 679-5052 Address: |