



Cliff Braddock CEM, LEED-AP®, Eco-Districts - AP™

Austin, Texas

BIO:

Cliff Braddock is Director Business Development for Metco Engineering, Inc. Metco Engineering is a leader in providing design-build services for onsite energy solutions that transform buildings and campuses into resilient and sustainable facilities. Technologies include onsite solar systems, energy storage, central utility plants, combined heating and power (CHP), energy microgrids and equipment efficiency upgrades. Customers enjoy lower costs for energy and steep reductions in greenhouse gas emissions.

Mr. Braddock originated many bellwether projects such as Austin Energy's Mueller Energy Microgrid that earned Dell Children's Hospital as the first LEED Platinum healthcare in the world. He is now developing neighborhood resiliency centers for counties and municipalities.

Academic credentials include Master's Business Administration from Louisiana State University and B.S. Engineering from Louisiana Tech University. Professional recognitions and certifications include ASHRAE Lifetime Member, AEE Certified Energy Manager and Certified Demand Side Manager, USGBC LEED – Accredited Professional, Eco Districts Accredited Professional and others.

During his long professional career, Mr. Braddock has served on multiple boards and committees affiliated with sustainability, engineering design and energy efficiency. He has written many industry papers and co-authored a guidebook on district energy for the International District Energy Association.

[cliffbraddock@metcoengineering.com](mailto:cliffbraddock@metcoengineering.com)

# David Handwork, PE, CEFP

Facilities Management Mechanical Engineering Professional

Phone – 870.897.2613 • Email - [dhandwork@entech.io](mailto:dhandwork@entech.io)



## Biographical Information:

David Handwork is founder and principal consultant of Entech Consulting, LLC, formed in 2016. David brings over 30 years of facilities operation, energy efficiency, and capital construction knowledge to his clients with a holistic and personal approach. David also serves as a fractional executive engineering officer for United Commercial Energy Partners supporting facilities decarboniation solutions in Texas and border states.

David's 30 years of professional experience includes major capital construction management in higher education and food processing, engineering design, and management of multiple teams of professionals. His professional leadership in ASHRAE, APPA, CAPP, and other organizations is a testament of commitment to advancing and promoting the field of facilities management. David's notable accomplishments include facilities operation efficiencies resulting in 20% budget reallocation, university campus energy efficiency reducing net Energy Use Index (EUI) from +130 kBtu/sqft/yr to 94 kBtu/sqft/yr, and completing over \$300 million of capital construction projects during his career.

Handwork is a Registered Professional Engineer in Arkansas and Texas, earning a bachelor's degree in Agricultural Engineering from Arkansas State University, and a master's degree in Mechanical Engineering from the University of Arkansas.

## Body of Professional Work Experience:

- **Riceland Foods, Inc.** – capital construction for industrial food processing, \$1 - \$3 million annual project work load
  - **Camfil-Farr** – engineering designer and director for gas turbine inlet filtration systems, for energy and petroleum market sector, \$10 - \$20 million annual project work load
  - **Arkansas State University**
    - Energy Conservation and Management – replaced all campus BAS / EMS to a single solution, managed the design and installation of campus district chilled water system, managed the campus energy conservation / decarbonization, \$1 - \$5 million annual project work load
    - Planning Design and Construction – managed the design and construction of multiple capital construction projects (new and major renovation), managed the campus masterplan, \$60 - \$120 million annual project work load
    - Senior Facilities Officer – managed the campus facilities operations for 4.3 million square feet of building inventory, 980 acres of grounds and infrastructure, 243 staff positions, approximately \$12 million annual operations budget, campus capital renewal (\$2 - \$3 million annual), campus capital construction projects (\$30 - \$60 million annual work load)
  - **United Commercial Energy Partners** – managed the technical operations for facility energy efficiency and decarbonization for multiple clients, exceeding an average energy / operational carbon savings of 30%, leading the Energy Technology Solutions development and deployment for advanced facilities decarbonization
  - **Entech Consulting, LLC** – founder and principal, leading personalized and holistic facilities decarbonization for clients and partners.
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**Liz John Bio**

*Since 2015, Liz has been with the South-central Partnership for Energy Efficiency as a Resource, SPEER. As the Managing Director, Liz builds relationships with funders, partners, and members and manages day-to-day internal operations, including organization communications, deliverables, and reporting. In this role she works closely with SPEER staff and the organization's efficiency initiatives to ensure that all SPEER programs meet required deliverables & achieve success and sustainability. In addition to overseeing SPEER's Energy Codes, Policy and Local Government programs, Liz also manages the national Building Operator Certification (BOC) Program in which she leads the implementation of the training course to current and potential building owners, operators, and facility managers.*

### **Jonathan Kraatz Bio**

Jonathan Kraatz is the Executive Director for the U.S. Green Building Council Texas Chapter. In 2015, Kraatz was named Interim Executive Director over the formation of USGBC Texas, bringing together green building resources and knowledge from across the state. He facilitated the merger of the four Legacy U.S. Green Building Council Chapters in Texas, and accepted the permanent role in January 2016.

Previously he served as Executive Director for the USGBC North Texas Chapter since 2010, he was hired as the Chapter's media and communications strategist and was quickly promoted to more responsible positions within the organization.

He earned a LEED Green Associate credential in 2010 and speaks regularly about the Chapter's mission, Leadership in Energy and Environmental Design (LEED) rating system, and building sustainability. He was also named part of Who's Who in Energy by the Dallas Business Journal in 2012, 2013, and again in 2014.

He was also elected to the Board of Directors for the Dallas Fort Worth Association Executives in 2013, 2015, 2017, and became President in 2019.

Kraatz was also part of the initial Dallas 2030 District Leadership Council and the Advisory Council for the City of Fort Worth Better Buildings Challenge - serving as its Co-Chair from 2017 to 2019 and the Steering Committee for the City of Dallas' Comprehensive Climate Action Plan Working Group.

In 2015 he was awarded the President's Volunteer Service Award, a premier volunteer awards program encouraging citizens to lead a life of service from the President of the United States, for his efforts with the USGBC Chapter Network Evolution Working Groups.

He holds a degree in Journalism from Texas A&M University and credits being challenged early in his career by great mentors for the flexibility and adaptability that has shaped him as a leader.