

David McKinley Beavers

Energy Professional / Data Scientist

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OBJECTIVE

Energy professional seeking to advance data driven solutions to clean energy related challenges.

EXPERIENCE

Sunesty Energy Catalysts - Sole Proprietor, 2017-Present

Help clients solve novel and time-sensitive challenges through solutions based on extensive experience in the energy field and data science skills.

Belmont Light – Light Board Advisory Committee Member, Commissioner, Current Chair, 2018-Present

Contributed 500+ pro bono hours leading projects addressing strategic electrification goals using data science skills.

The Cadmus Group – Senior Associate, 2001 – 2016

Built a profitable team within Cadmus recognized for delivering projects on time and on budget. Projects required significant use of data analytics. Topics included collecting meter data from renewable energy systems, clean energy program design, administration and evaluation, financing, and technical support.

EXAMPLE PROJECTS (more at [linkedin.com/in/sunesty](https://www.linkedin.com/in/sunesty))

Illinois Power Authority (IPA), Illinois Shines, 2022-Present

As a subcontractor, provide Subject Matter Expertise and develop Python scripts to process REC invoicing for solar projects.

Belmont Light (BL), Time-Of-Use Rate Development / Evaluation, 2020-2023

Used Python on two-years of interval data for 10,000 customers to produce draft TOU rates and assess their impact on customers with heat-pumps, EV, batteries, and solar PV. Trained BL staff on program evaluation approaches using interval data.

Mass Clean Energy Center(MassCEC), EV Telematics Standard, 2023

Developed a standard for reporting demand reduction aggregation values, derived from EV telematics, to the Production Tracking System to claim Massachusetts Clean Peak Energy Standard certificates.

MA Investor-Owned Utilities/MA Dept. of Public Utilities (DPU), System of Assurance of Net Metering Eligibility, 2012-2016

Led a consulting team that designed and developed a platform to administer this critical program that tracks progress toward net metering caps. System was launched on time only two-months after contract execution. See: www.massaca.org

SKILLS

Energy

RECs, SRECs, CPECs
Rate Analysis
Energy Storage
Demand Reduction
EV Aggregation
Net Metering
Community Solar
DER

Data Science

Python
Pandas
Scikit-Learn
XGBoost
Seaborn, Matplotlib
SQL

CERTIFICATIONS

- Certified Energy Manager
- Certified Sustainable Development Professional
- Certified Data Science Professional

EDUCATION

- B.A. Physics, Grinnell College, IA
- B.S. Mech Eng, Washington Univ. St. Louis, MO
- A.M. Environmental Studies, Brown Univ., RI

DATA SCIENCE TRAINING

- MIT: Data Science and Big Data Analytics
- DataCamp: Data Science with Python Track (22 courses, 84 hours)
- Kaggle: miscellaneous machine learning courses and competitions

OTHER

- Returned Peace Corp Volunteer