PHOTOVOLTAICS, ENERGY STORAGE, MICROGRIDS, AND EV CHARGING STATIONS

STATEMENT OF QUALIFICATIONS

ENGINEERING

DESIGN

PROJECT MANAGEMENT

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www.fluxenergysystems.com
COMPANY OVERVIEW

Flux Energy Systems was founded in 2016 to simplify the design and installation of alternative energy projects. With over 30 years of experience in solar, battery, electric vehicle, fuel cell, and smart grid technologies, Flux combines the knowledge and expertise of a large organization with the agility and customer-centric focus of a boutique services provider. We help our customers plan, design, scope, budget, engineer, and implement commercial and utility-scale projects across the US. Through a tight network of partners, we can cover and coordinate all engineering scopes and services.

OUR CUSTOMERS

PROJECT DEVELOPERS hire us to win bids, design, and manage projects.

EPC CONTRACTORS subcontract engineering, interconnection, and permitting work to us.

TECHNOLOGY PROVIDERS rely on our industry, project engineering, and development expertise.

PROPERTY OWNERS count on us to represent their interests through the entire project life cycle.

PROJECT FINANCIERS rely on us for cost-effective and high-quality project execution.

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ABOUT FLUX

OUR VALUES

ADAPABILITY When our customers need us, we are ready. We quickly adjust to changing goals, and we never have red tape.

COMMUNICATION We translate complex technical concepts into boardroom slides or installation-ready drawings. We communicate frequently yet succintly.

CUSTOMER SERVICE Our success comes with our customer’s success, and we always remember that. We always pick up the phone, and we move quickly to keep your projects on track.

POSITIVE ATTITUDE Integrating 21st-century technology into an old electric grid is hard work, but we love the challenge. We keep things positive and collaboratively solve problems.

LICENSES & CERTIFICATIONS

- Certified WBE by the Supplier Clearinghouse
- Certified WBE by the City of Los Angeles
- Licensed Professional Electrical Engineer in the State of California
- Licensed Professional Electrical Engineer in the State of Texas
OUR SERVICES

PRELIMINARY ENGINEERING

We help developers reduce their exposure to unexpected costs by conducting thorough due diligence and creating a clear preliminary design. Let Flux select the equipment and design the system while you focus on completing the leases, PPAs and financial development.

- Site Plan
- Single Lines
- Generation Analysis
- Equipment Assessment
- Utility Bill Evaluation
- Project Portfolio Evaluation
- Technical Support for Bidding

C&I SOLAR DEVELOPMENT:
- 51 C&I Carport and Roof-Top projects.

UTILITY SOLAR DEVELOPMENT:
- 11 ground mount projects totaling 622 MW.

UTILITY STORAGE DEVELOPMENT:
- 30 front-of-meter storage projects totaling 640 MW/ 2140 MWh
- 8 Fatal Flaw Analysis of front-of-meter storage projects ~ 8 MWh each

“Throughout all of our working interactions, Flux, and its principal Alison Brown, have been highly effective in communicating and thoughtfully aligning with our business needs and expectations for deliverables. I would recommend their services for any upcoming consulting work.”

– Genevieve Liang, SVP Development, Mirasol Development LLC
OUR SERVICES

PROJECT DESIGN & ENGINEERING

We listen carefully to your input before defining a project design. When possible, we proactively address risks to limit unexpected changes. By working with fully vetted engineering partners, we provide a comprehensive design that will meet your project goals.

- Electrical Design
- Site Visits
- Structural Design
- Civil Design
- Interconnection Evaluations
- Geotechnical Survey
- Permitting
- Value Engineering

CASE STUDY

3rd Party Design Results in Strong Bids

PROJECT SUMMARY
- 34 utility BESS systems
- 2 MWh to 440 MWh

SCOPE OF WORK
- Review technical specifications in RFP
- Single line diagrams and site plans

One of our clients wanted to win an RFP before investing in an internal design team, so they hired Flux to support their sales efforts. As soon as Flux was engaged our senior engineer worked closely with the client to define their product offering in Flux’s AutoCAD template. With this definition we could delegate designs to junior level engineers and provide quick and cost-effective service. Each project had a unique design, so we followed Flux’s QA/QC process to ensure accuracy. As a result of our collaboration our Client was able to drastically increase their proposal output and quality without increasing overhead.

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OUR SERVICES

PROJECT MANAGEMENT

Diligent project management is often overlooked but is critical for delivering projects on schedule and to budget. Hiring Flux to manage your project leaves you free to focus on your core business competency.

- Project Leadership
- Schedule and Budget Management
- Contract Review & Compliance
- Action Items Assignments and Tracking
- Regular site visits
- Documentation Completion Management

ENERGY STORAGE:
- Four Water Treatment Centers (4 MW)
- Eleven Office Buildings (3.1 MW)
- One Community College (1.25 MW)
- Two Manufacturing Facilities (1.9 MW)
- One Large Industrial Bakery (0.7 MW)
- Three Distribution Centers (0.75 MW)

EV CHARGING STATION:
- One Apartment building with 39 ports

ROOF TOP SOLAR:
- Three Fulfillment Centers (5 MW)
- One Composting Facility (1.5 MW)
- One Distribution Center (2.5 MW)

“Flux Energy provided comprehensive project management and coordination services for us on a very challenging portfolio of rooftop projects across three sites – built simultaneously – in three different regions of California. [] We could not have been successful without Flux’s participation and relentless work. Flux’s team has my utmost respect, and I unequivocally recommend their services.”

- Kevin Bassalleck, President, Affordable Solar

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OUR SERVICES

OWNERS REPRESENTATION

Once you invest in clean energy, you will be faced with hundreds of choices: technologies, strategies, risk mitigations, etc. Let Flux protect your interests and guide you to a successful end product. We can help you with:

- Project Management
- Independent Engineering Review
- Permitting Coordination
- Financial Models
- Interconnection application
- Utility management
- Construction Management
- Documentation

INDEPENDENT ENGINEERING REVIEW
- 2.5 MW Solar Project
- 250 MW Solar Project
- 1.4 MW Roof Top Solar Project
- (2) 3.2 MW Solar Projects
- (2) 250 kW Battery Energy Storage Projects

ON-SITE OWNER’S REPRESENTATION
- 2.5 MW Ground Mount Solar

“Fiddler Energy hired Flux Energy Systems as an Independent Engineer on a 1.5 MW roof top photovoltaic project. Flux thoroughly reviewed project drawings and proposed design revisions for compliance with relevant codes and industry best practices. Not only did Flux provide detailed and high-quality reports, they responded in a timely fashion and proactively collaborated with all parties to quickly eliminate risks and conflicts.”

-- Mike Kimball, Fiddler Energy
WHY FLUX

Flux will save you time
- We have extensive problem-solving experience
- We have an excellent response time and move projects forward relentlessly
- We drive projects in parallel paths whenever possible

Flux will save you money
- We track and reduce costs
- We anticipate cost adders and recommend alternatives

Flux will set you up for future success
- We build relationships
- We establish repeatable processes
- We track lessons learned
- We identify and manage project risks

“AMS uses Flux Energy to handle the variability in our workflow. Flux Energy is responsive, flexible, provides high-quality Project Management & Engineering services on short notice, and is well placed in areas where we do business.”

— Yanni Kapranos, Director- Regional Development, Advanced Microgrid Solutions
PROJECT EXPERIENCE

ELECTRIC VEHICLE CHARGING STATIONS

PROJECT SUMMARY
- 220 EV Charging Stations
- 14 Multi-Family Buildings
- Southern California

SCOPE OF WORK
- Engineered drawings for construction
- Utility, Building and Electrical Permits
- Host and Contractor coordination

QUALITY DESIGN YIELDS HIGH ROI

Flux was hired to design a portfolio of EV charging stations, because our client could not collect project rebate due to repeatedly failing utility and AHJ inspections.

Flux immediately evaluated project status and determined that the failed inspections were the result of undefined quality standards, so we interviewed the utility, permitting agencies, installers and property owners.

By clearly defining design & installation standards, each project met stakeholder objectives from the initial design resulting in higher quality installations and faster returns on investment.

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PROJECT EXPERIENCE

SOLAR + STORAGE

On a portfolio of Solar + Storage projects, Flux clearly defined scopes of work, proactively mitigated risks, and negotiated project costs.

RESULTS

- Reduced budgets by 10%
- Recovered 3x our project fees
- Delivered projects on time

Budgeted vs. Actual Costs

<table>
<thead>
<tr>
<th></th>
<th>Project 1</th>
<th>Project 2</th>
<th>Project 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget</td>
<td></td>
<td></td>
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<tr>
<td>Actual</td>
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</table>

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# SELECTED PROJECT LIST

## DESIGN AND ENGINEERING

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Capacity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gonzales BESS*</td>
<td>2.75 MW / 8 MWh</td>
<td>California</td>
</tr>
<tr>
<td>Acorn BESS*</td>
<td>2 MW / 4.5 MWh</td>
<td>California</td>
</tr>
<tr>
<td>Wildcat BESS*</td>
<td>3 MW / 12 MWh</td>
<td>California</td>
</tr>
<tr>
<td>EV Charging Stations</td>
<td>154 Ports (11 Projects)</td>
<td>California</td>
</tr>
<tr>
<td>San Antonio Solar I</td>
<td>2.5 MW (400 projects)</td>
<td>Texas</td>
</tr>
<tr>
<td>San Antonio Solar II</td>
<td>1.15 MW (17 projects)</td>
<td>Texas</td>
</tr>
<tr>
<td>El Paso Solar</td>
<td>500 kW</td>
<td>Texas</td>
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<tr>
<td>Paramount Solar</td>
<td>2.5 MW</td>
<td>California</td>
</tr>
<tr>
<td>Clark County Solar</td>
<td>2 MW</td>
<td>Nevada</td>
</tr>
<tr>
<td>Battery Preliminary Design</td>
<td>2000 MWh+ (31 projects)</td>
<td>All Over</td>
</tr>
<tr>
<td>Solar Preliminary Design I</td>
<td>10 MW (5 Projects)</td>
<td>Massachusetts</td>
</tr>
<tr>
<td>Solar Preliminary Design II</td>
<td>7 MW (3 Projects)</td>
<td>Texas</td>
</tr>
<tr>
<td>San Bernardino Storage</td>
<td>5 MW</td>
<td>California</td>
</tr>
<tr>
<td>Wilmington Solar + Storage</td>
<td>70 kW, 22 kW / 40 kWh</td>
<td>California</td>
</tr>
<tr>
<td>Windward School Solar</td>
<td>66 kW</td>
<td>California</td>
</tr>
<tr>
<td>Ventaggio Suites</td>
<td>30 kW</td>
<td>California</td>
</tr>
<tr>
<td>HECO Single Line Design</td>
<td>200 MWh (3 Projects)</td>
<td>Hawaii</td>
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</table>

## PROJECT MANAGEMENT

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Capacity</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paramount Rooftop Solar</td>
<td>2.5 MW</td>
<td>California</td>
</tr>
<tr>
<td>OAK3 Rooftop Solar</td>
<td>3 MW</td>
<td>California</td>
</tr>
<tr>
<td>OAK4 Rooftop Solar</td>
<td>1 MW</td>
<td>California</td>
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<tr>
<td>ONT5 Rooftop Solar</td>
<td>1 MW</td>
<td>California</td>
</tr>
<tr>
<td>RP 4 Solar + Storage</td>
<td>1.5 MW / 1.5 MW</td>
<td>California</td>
</tr>
<tr>
<td>Orange County Storage</td>
<td>1.5 MW (8 projects)</td>
<td>California</td>
</tr>
<tr>
<td>Regional Plant 1 Storage</td>
<td>1.25 MW / 2.5 MWh</td>
<td>California</td>
</tr>
<tr>
<td>Carbon Canyon Storage</td>
<td>0.75 MW / 1.5 MWh</td>
<td>California</td>
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<tr>
<td>Community College Storage</td>
<td>1.3 MW / 7.140 MWh</td>
<td>California</td>
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<tr>
<td>Water District Storage II</td>
<td>500 kW / 3760 kWh</td>
<td>California</td>
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<tr>
<td>Industrial Storage Project I*</td>
<td>700 kW / 3944 kWh</td>
<td>California</td>
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<tr>
<td>Industrial Storage Project II*</td>
<td>420 kW / 1624 kWh</td>
<td>California</td>
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<tr>
<td>Industrial Storage Project III*</td>
<td>1540 kW / 6160 kWh</td>
<td>California</td>
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<tr>
<td>Commercial Project I</td>
<td>1240 kW / 5800 kWh</td>
<td>California</td>
</tr>
<tr>
<td>Commercial Project II</td>
<td>700 kW / 2964 kWh</td>
<td>California</td>
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<tr>
<td>Box Store I, II, and III</td>
<td>260 kW / 1680 kWh (ea)</td>
<td>California</td>
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<tr>
<td>Culver City Solar + Storage</td>
<td>2450 kW / 11600 kWh</td>
<td>California</td>
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CONSULTING

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<tr>
<th>Company</th>
<th>Service</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>NEXTracker, Inc</td>
<td>Cost Modelling and Estimating</td>
<td>California</td>
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<tr>
<td>Mirasol Development LLC</td>
<td>51 Industrial Site Evaluations</td>
<td>California</td>
</tr>
<tr>
<td>PowerFin I</td>
<td>Technical Solar + Storage</td>
<td>Texas</td>
</tr>
<tr>
<td>PowerFin II</td>
<td>Virtual Power Plant</td>
<td>Texas</td>
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<tr>
<td>Revolution Labs</td>
<td>Development Field Services</td>
<td>Arizona</td>
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<tr>
<td>Kingsbery Solar</td>
<td>Owner’s Representative</td>
<td>Texas</td>
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<tr>
<td>Phebe Solar</td>
<td>Independent Engineer</td>
<td>California</td>
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<tr>
<td>Klamath Solar</td>
<td>Independent Engineer</td>
<td>Oregon</td>
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<tr>
<td>Chatsworth Solar</td>
<td>Independent Engineer</td>
<td>California</td>
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<tr>
<td>Millikin Energy Storage</td>
<td>Design Review</td>
<td>California</td>
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<tr>
<td>Wildcat Energy Storage</td>
<td>Design Review</td>
<td>California</td>
</tr>
</tbody>
</table>

* Projects are not yet complete

CONTACT US:

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