

Company Profile



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Who We Are

We're an independent service provider in the Renewable Energy Industry - serving Owners, Equipment Manufacturers & Contractors.

Our Mission

Optiv's mission is to build a great company, treat people well, and do quality work for our customers. Our goal is to be your most reliable option for the stewardship of your renewable energy assets.

Why Choose Us?

- Technical Competency
- Shared Ownership
- Reliability
- Open Communication

Meet the Founders

We are a team of Engineers and Technicians with a track record in Renewables. Each of us has spent ~15 years in the field, working on the tools, building teams and solving problems.

We apply those lessons into our service operations at Optiv Energy.



Grayson Swan
President



Ben Emodi
VP, Strategy



Taylor Williamson
VP, Technical Services



Andrew Arbuckle
VP, Corporate
Development



Trent MacDonald
VP, Operations -
Canada



Ryan Howe
VP, Wind Services

Our Journey



2010 - 2019

We worked independently and then together across several organizations - starting in the field, then leadership roles and eventually as owners.

2019 - 2023

Through a series of mergers and acquisitions, we came together under a larger corporation, where we continued to grow the Renewables business as a team serving gigawatts of projects.

2024

Optiv Energy begins operations in both the U.S. and Canada - offering construction management and technical field services for solar, battery storage and wind energy.

What We Do

Our customers are primarily owners and equipment manufacturers.

We have technical field expertise with battery storage, solar & wind projects.

Project Management

- Development
- Construction
- Oversight of onsite personnel
- Asset Management

Commissioning

- Hot & Cold Commissioning
- OEM Certified
- BESS / Solar
- Medium Voltage

Service & Maintenance

- Preventative
- Corrective
- Retrofit Campaigns
- Backfill Support

Full Scope O&M

- Integrated CMMS
- BOP / Substation
- Availability Guarantees
- Inventory Management

Health, Safety, Environment, Quality



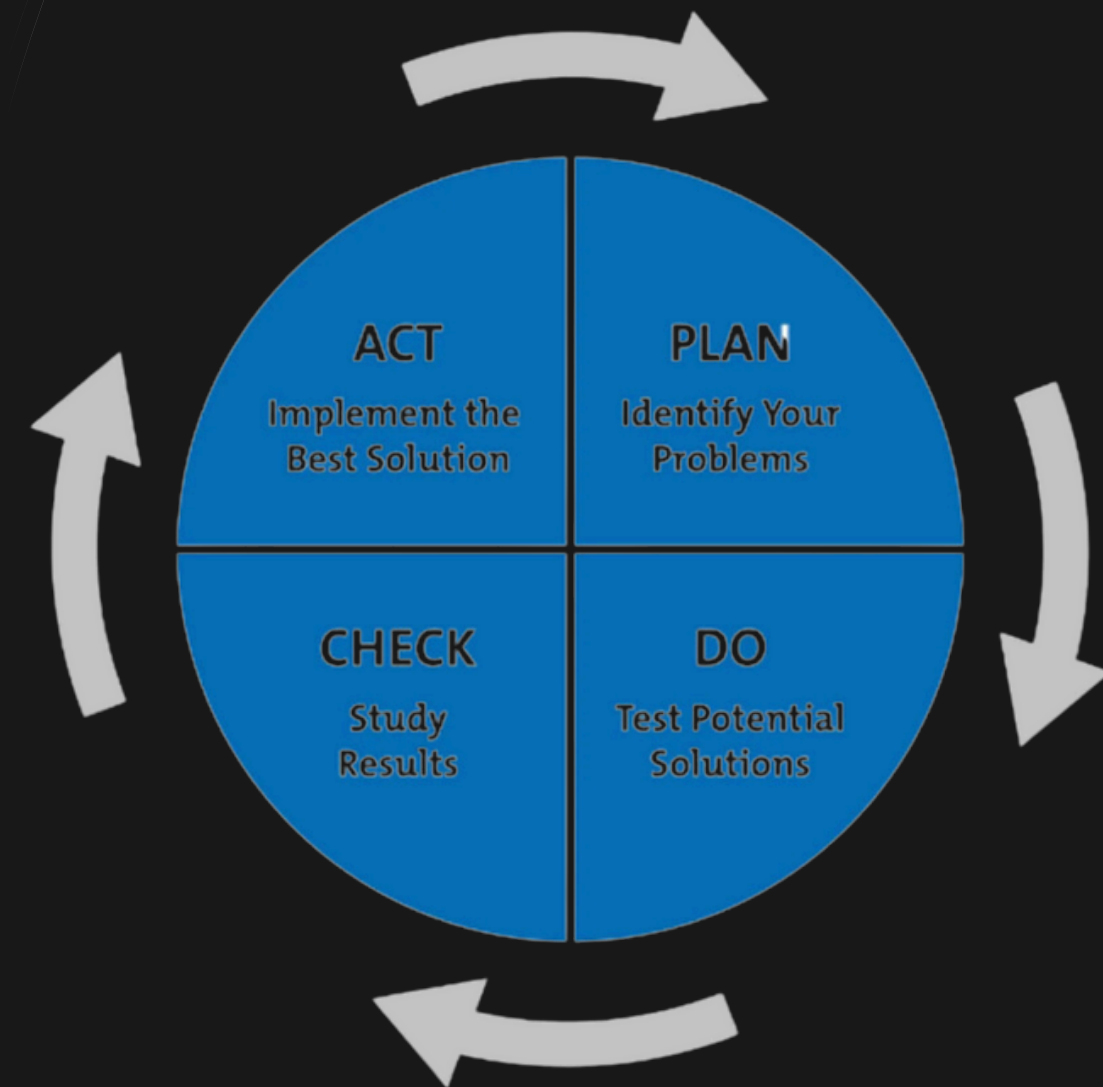
Comprehensive Programs

We have developed our HSEQ programs from years of experience in the field.



Digital, Mobile & Traceable

All reporting is accessible by mobile device, customizable, traceable and auditable.



Our Programs

We build and maintain comprehensive Health & Safety programs. They are working documents that we continuously improve.

HSE Programs	Scope of application
On-boarding - Training - Mentorship/apprenticeship	<ul style="list-style-type: none"> - On boarding and initial training procedure - Mentorship and/or apprenticeship process - Training matrix, competency review and evaluation
Hazard Identification & Assessment	<ul style="list-style-type: none"> - Comprehensive workplace hazard/risk assessment - Pre-job hazard assessment - Job/Site specific hazard assessment and Project HSE Plan
Proactive Safety Observation	<ul style="list-style-type: none"> - Safety observation (conditional and behavioral observation) - Communication of observation - Follow-up action
Incident Management	<ul style="list-style-type: none"> - Reporting incident - Incident investigation - Corrective actions & follow-up - Modify duty & return to work process
Personal Protective Equipment	<ul style="list-style-type: none"> - PPE policy - PPE requirements - PPE inspection
Inspection and Audit	<ul style="list-style-type: none"> - Safety inspection - HSE Management System audit
Hazardous Materials Control	WHIMIS/HAZCOM safety requirements
Electrical Safety	<ul style="list-style-type: none"> - Electrical safety policy - Electrical safety requirement and process
Hazardous Energy Control (LOTO)	<ul style="list-style-type: none"> - Hazardous energy control policy and safety requirements - LOTO procedure
Working at Heights	<ul style="list-style-type: none"> - Working at heights & fall protection policy - Working at heights' safety requirements
Environmental Management	<ul style="list-style-type: none"> - Environmental aspect identification - Environmental impact assessment - Environmental management program
Emergency Preparedness	<ul style="list-style-type: none"> - Emergency preparedness policy - General guidelines & requirements for emergency preparedness and response
Sub-contractor	<ul style="list-style-type: none"> - Sub-contractor policy - Requirements for sub-contractor

Training

We hire experienced, qualified technicians, provide in-person training and work with OEMs on equipment specific certifications.

Each Optiv team member is onboarded into the company through our Dallas Fort-Worth office.

We re-certify compliance trainings and provide hands-on LOTO / Electrical trainings and competency checks.

For OEM services, we invest in our people to receive the latest OEM and equipment specific certifications.

Optiv Training Program

- | | |
|---------------------------|---|
| ✓ Protection & Control | ✓ Battery Safety Training |
| ✓ OSHA 10 | ✓ NFPA 70E & 70B + MV Switching + TX Maintenance |
| ✓ OSHA 30 (if applicable) | ✓ Electrical 101 (Principles) |
| ✓ First Aid | ✓ Electrical Distribution/Transmission |
| ✓ NFPA 70E | ✓ Drawings / Schematics |
| ✓ WAH & Rescue | ✓ BESS Fundamentals & Safety |
| ✓ Hazcom/WHMIS | ✓ Solar Fundamentals & Safety |
| ✓ Confined Space | ✓ Tooling / Testing Equipment Operations (Meter safety, insulation resistance, infrared thermography, torque, etc.) |
| ✓ LOTO | ✓ Networking, SCADA, DAS (Cat5e, RS485, Modbus) |
| ✓ Fire Extinguisher | |

Training Content

Battery Energy System Fundamentals

The AC power from the modules is fed to a bus at a voltage of 660 volts AC. The bus is connected to the primary side of the medium voltage transformer. The transformer steps the voltage to 34.5 kilovolts.

Substation Safety

This course will focus on single-line diagrams, the most common type of diagram used in the operational section of a plan set. Single-line diagrams are comprehensive flow diagrams that provide an operational overview of an electrical system or electrical component. Single-line diagrams are also called by other names such as electrical prints, schematics, or simply single-line diagrams. Single-line diagrams use a single line to represent the multiple phases of the power system, making it easy to follow and provide equipment rating information.

SCADA Fundamentals

A technician will assign network identification numbers referred to as IP addresses to every switch and network device. This will include those in the control room. The result is that every device in the tracking system, and the monitoring system, has a unique address. The IP address is a prefix to all incoming and outgoing signals. Therefore, the equipment receives the commands and sends the applicable data.

Solar Generation Facility

The power from the common mode isolation coil will end up on DC buses on which the IGBTs are mounted. Each DC bus consists of three phases. Although there are three IGBTs, for simplicity, we will only show one phase to explain. The IGBTs are essentially electronic switches that control the flow of current when a signal from the control board is provided. The IGBTs can be switched at essentially any rate. The design of the inverter using pulse width modulation (PWM) means that the width of the pulse can be varied as needed to produce an output that is the average of the pulses. Shorter pulses produce a lower average voltage, while longer pulses produce a higher average voltage.

Systems & Reporting

We build a database for each site, creating a hierarchy of digital assets.

We use *Limble* as our CMMS. We create a database and digitize your site & each piece of equipment as an asset using the following hierarchy:

- Customer
- Project Site (Asset)
- Sub-Asset (i.e. inverter or piece of equipment being worked on)

Within this digital database, we create a dashboard for you to monitor progress. We file detailed work orders for each task performed - detailing tasks, photos, records of LOTO Procedures & Field Level Hazard Assessments, and any corrective action taken.

Every scope performed that day is digitally mapped and stored, along with records of our people, time, tooling and safety documentation.

Digitized Assets

Sites are mapped as assets & tasks are digitized & recorded.

The screenshot displays the OPTIV ENERGY dashboard interface, which is divided into several main sections:

- Left Sidebar (Navigation):** Contains categories like 'Locations', 'Renewables', 'Energy', and 'Assets'. The 'Assets' section is currently selected and expanded, showing sub-items like 'Open Tasks', 'Completed Tasks', 'Submit a Work Request', 'PMS', 'Parts', 'Teams', 'Vendors', and 'Purchasing'.
- Manage Assets (Top Panel):** Features a search bar, a filter dropdown set to 'Asset Information', and a table of assets. The table columns include 'Name', 'Generation Type', 'System Size AC (MW)', and 'System Size DC (MW)'. A tree view on the left shows a hierarchy of assets, including 'Solar (Groundmount)', 'Load Break Switch (Padmount)', 'Recloser (Padmount)', 'Pad Mounted XFMR-01', 'AC Switchboard (SB-01)', and five inverters (Inv-01 to Inv-05).
- Custom Dashboards (Bottom Panel):** Titled '(Customer View)', it contains several widgets:
 - Task Status - Number of Tasks - All Time:** A donut chart showing task distribution. A legend on the right lists: Awaiting OEM (0), Awaiting Parts (0), Awaiting Third-party (0), Completed (36), In Progress (2), Online - requires service (0), Open (0), and Warranty/RMA (0).
 - Open Work Orders - All Time:** A table with columns for Name, Created, and Status. It shows one entry: 'Firmware and parameters update - # 981 - 1-1-1-' created on 08/31/2024.
 - Completed Work Orders - Cottonwood - All Time:** A table with columns for Name, Created, and Status. It lists several completed tasks such as 'Field Level Hazard Assessment (FLHA) - # 885 - 1-1-1-00' (08/24/2024), 'MVT Inspections - # 841 - 1-1-1-00' (08/23/2024), 'Night Work- MVT Inspection - # 826 - 1-1-1-00' (08/22/2024), 'Combiner ground fault check - # 784 - 1-1-1-00' (08/22/2024), and 'Sungrow Inverter(3600) settings verification - # 783 - 1-1-1-00' (08/22/2024).
 - Online (requires further service) -** A section at the bottom with a task count of 0.

In the Field

We earn your trust through the quality of our work.



Project Highlights

We work to optimize the MWh production from your renewable energy assets.



Next Steps



Sign Mutual NDA

Execute a mutually binding non-disclosure agreement to protect commercially sensitive information.



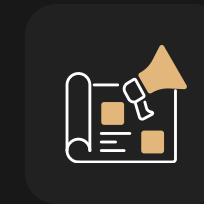
Project Needs

Explore project opportunities and gather detail on technical, schedule and resource requirements.



Execute MSA

Establish a framework for pricing, terms and conditions that are mutually agreeable and allow us to support you as needs arise.



Schedule Technicians

Agree on a budget, resources and schedule technicians for specific scopes of work. Schedule project kick-off calls & mobilize to site.

Closing Message

Thank you for taking
the time to learn about
Optiv Energy.

OPTIV  ENERGY

We look forward to earning your trust one project
at a time and optimizing the performance and
lifespan of your assets.

Contact Us



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