PDS

Solar Operations & Maintenance (O&M) Capabilities

Statement of Qualification

Delivering value to clients from project concept to completion

2025

Project Development Solutions (PDS)

About Us:

- **Founded:** 2019
- **Business Units** – Technical Consulting, Development, and Engineering, Procurement, and Construction (EPC), **Construction and Project Management,** Grants & Government Contracts
- **Licenses:** Licensed Class A Contractor # 1108886
- **Industry Expertise:** Energy (Solar, BESS, CSP), Microgrids, Oil & Gas, Commercial
- **In-House Capabilities:** Engineering (Mechanical, Process, Electrical, Civil), Electrical Design, **Solar O&M,** Construction and Project Management, Grants development, Administration, Community Benefit Plans.

Core Services:

- Engineering, Procurement, Construction, and Management (EPCM)
- **Solar O&M**
- Turnkey construction (Major Expense Projects)
- Technical Consulting
- Facilities Design
- Grant Development, Writing & Administration

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Leadership Team

Tunde Deru
President & CEO

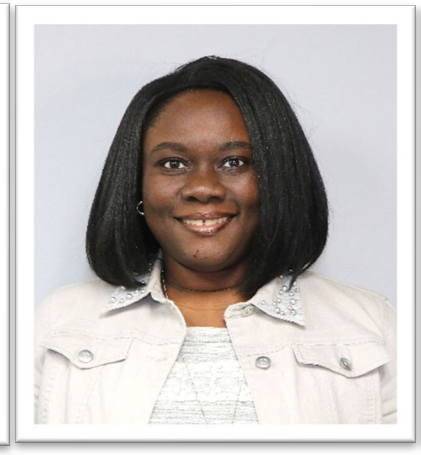
Leadership roles in Berry Petroleum and GlassPoint Managed projects > $500 million in the energy sector

Ben Okoro
EPC Manager

Former Chevron Senior Mgr., with three decades of Major Capital Projects experience, in the US and Overseas

Jess Benardo
Construction & O&M Mgr.

30 years construction experience in industrial, commercial, public and energy sectors in the US and Overseas



Gbemi Deru
Bus. Manager

MBA with 20 years business management experience in retail and food and beverage industries

Blair Pruett
Bus. Dev.

40 years business development experience in construction and energy industries

Total PDS staff headcount: 12

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PDS Technical Team

Tunde Deru
President & CEO

Anand Janaswamy
Solar O&M Consultant

Ben Okoro
EPC Manager

Jess Benardo
Construction, O&M Manager

Charles Amarikwa
Licensed Electrical Engineer

Dom Torres
Project Engineer

Alyssa Kinkade
Project Engineer

Andrez Bernal
Project Engineer

Vidal Barrera
Senior Designer

Multi-discipline Sub-Contractor Pool

Solar Operations & Maintenance Technicians

Solar O&M Operational Services

Site Visit/Audit	Array	Data Acquisition System (DAS)	IR Scans	Tracker Systems
A comprehensive site inspection will be performed to assess cleanliness, safety, and compliance. Vegetation, shading hazards, debris, erosion controls, drainage, fencing, gates, locks, and signage will be checked. Required labels and safety signs will be confirmed, and the site layout will be validated against as-built drawings	*A comprehensive inspection of the solar array and associated equipment will be conducted to ensure optimal performance and safety. Modules will be checked for cleanliness, shading, pests, and physical damage, while the structural components—such as racking, inverters, and conduits—will be assessed for alignment, corrosion, and grounding integrity. Electrical systems, including wiring, terminations, and disconnects, will be examined for proper installation, labeling, and compliance with NEC standards. All key components, including transformers, junction boxes, and tracking systems, will undergo functional checks, with cleaning, lubrication, and repairs performed as necessary.*	*Communication and monitoring systems will be inspected for integrity and proper termination. All sensors, telecom lines, modems, routers, SCADA, and computers will be checked, and instrument accuracy will be validated with portable references. The POA irradiance sensor and weather station will be confirmed for proper mounting and orientation. Conduit fittings will be verified as weathertight, and sensors will be cleared of debris. Wind sensors will be checked and lubricated if needed. Communication wiring and 120 Ohm termination resistors will be confirmed, and Modbus IDs and device labels will be matched to the DAS*	*Before testing, the array will be checked for inter-module and external shading. Infrared scans will be performed on all inverter DC and AC terminations, combiner box terminations, splices, and junction boxes (excluding pull boxes), as well as all serviceable AC terminations, including panels, switchgear, transformers, and CT cabinets. Loose connections will be tightened as needed, and results will be recorded.*	*The tracker system will be verified and recorded, including manufacturer, model, and serial numbers. Row alignment and tracking performance will be confirmed. Tracker controller boxes will be inspected for voltage, battery levels, moisture intrusion, and overall condition. Infrared scans will be conducted to identify any issues; connections will be tightened and re-scanned as needed. Post mountings will be checked for sinking, corrosion, or damage, and mounting hardware will be spot-checked for proper torque. The site will also be reviewed for soil erosion and drainage concerns*

DC Source Circuit Inspection	Inverter Inspection	AC Distribution Inspection	Meter Inspections	Photographs
The correct number of modules in each string will be verified to match the construction documents. All source circuit conductors will be checked for compliance with design drawings, and cable testing will be confirmed as complete. Source circuit polarity will be verified. All installed cables will be inspected to ensure they meet the required voltage class and are suitable for their installation conditions, including UV exposure and underground or tray cable (UG/TC) applications, as specified in the construction documents.	*Proper installation of all components will be verified against system plans and manufacturer specifications. Communication with the System Data Acquisition System (DAS) will be confirmed. The Modbus ID, serial number, and site ID for each inverter will be documented.*	*The presence of the UL label will be verified, and it will be confirmed that the equipment voltage class meets the operating voltage requirements. All cables will be checked to ensure the conductors meet the voltage class of operation and are suitable for their installation conditions, including UV exposure and underground or tray cable (UG/TC) applications. Conductor labeling and equipment signage will also be verified.*	*Current transformers (CTs) and potential transformers (PTs) will be checked for proper sizing, installation, and orientation. Meter readings will be confirmed for accuracy, and data communication to the cloud will be verified. The IP addresses of all DAS equipment will be documented*	*All equipment and site conditions will be documented. Photographs will be taken of all inverters, combiners, switchgear, and splice boxes—with covers on and off—including labeled device IDs marked prior to photographing. DAS and weather station equipment will also be photographed with covers on and off. Additional photos will capture the point of common coupling to the AC system, the associated utility meter, and example module labels for each module type.*

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Technical Team Members

Tunde Deru

Role: Project Advisor
Years of Experience: 25+
Education/Certifications:
B.Sc. Mech. Engineering
Project Management
Industry Expertise:
Oil & Gas
Renewable Energy
Real Estate
Construction

Tunde Deru is Principal of Project Development Solutions (PDS), where he leads strategic business and project development across energy and infrastructure sectors in the U.S. and Africa. With over 20 years of experience, he brings deep expertise in project management, engineering, and business development spanning oil & gas, renewables, and industrial construction.

Previously, Tunde was Sales Director at GlassPoint Solar, where he led development of the Belridge Solar project—the largest integrated solar steam and power facility in California. Before that, he established and managed the Project Management Organization (PMO) at Berry Petroleum, delivering over $400 million in capital projects aligned with the company's five-year plan.

His strengths include PMO deployment, project controls, permitting, stakeholder engagement, and construction oversight. He has led cross-functional teams of 30+ professionals and managed annual CAPEX budgets exceeding $100 million. Earlier in his career, he held leadership roles at Schlumberger and Processes Unlimited (now Stantec).

Career Highlights:

- **Belridge Solar Project (GlassPoint Solar):** Led project development and stakeholder negotiations for California's largest integrated solar steam and power project.
- **Berry Petroleum PMO:** Launched and led the PMO; delivered $400MM in CAPEX projects, saving $20MM over four years.
- **Diatomite Facilities Projects:** Managed $70MM annual budget and full project execution for oil asset team, covering engineering through commissioning.

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Technical Team Members

Ben Okoro

Role: EPC Manager
Years of Experience: 30+
Education/Certifications:
B.Sc. Mech. Engineering
Project Management
IREX Megawatt Scale - PV
Industry Expertise:
Oil & Gas
Renewable Energy
Real Estate
Construction

Ben Okoro serves as the Engineering, Procurement, and Construction (EPC) Manager at Project Development Solutions (PDS), specializing in full-cycle project management and construction for large-scale energy infrastructure projects. With over 30 years of experience in the oil & gas sector, Ben has led complex capital projects across the U.S., Africa, and Latin America—from initial planning through commissioning.

Ben's expertise includes construction supervision, CAPEX program management, contractor coordination, and field execution. At Chevron, he held leadership roles such as Facilities Engineering (FE) Regional Manager and Construction Superintendent, where he oversaw field execution teams, managed construction scopes, and ensured compliance with safety, schedule, and quality standards. His oversight extended to annual budgets ranging from $250–$350 million and construction programs across multiple business units.

He has successfully led multidisciplinary teams through all stages of project execution—including FEED, procurement, fabrication, installation, and commissioning. Ben's field leadership included supervising infrastructure installations and upgrades at Chevron's Escravos Terminal, coordinating construction for gas and water treatment plants in San Ardo, California, and executing onshore production facility expansions in Opuekeba, Olero, and Dibi.

Career Highlights:

- **Escravos Gas Project (EGP-1):** Directed field construction and commissioning for a 365MMscfd gas processing facility, coordinating with EPC contractors and operations teams.
- **San Ardo Facility Upgrades (California):** Led field execution and construction of surface production systems, steam generators, and treatment plants under Chevron's Western California Asset Team.
- **Opuekeba, Olero, and Dibi Infrastructure Projects:** Managed the FEED, fabrication, and field installation of onshore facilities totaling over 150,000 BPD capacity.

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Technical Team Members

Jess Bernardo

Role: Construction & O&M Manager
Years of Experience: 30+
Education/Certifications:
B.Sc. Civil. Engineering
Project Management
IREC Megawatt Scale - PV
Industry Expertise:
Oil & Gas
Renewable Energy
Real Estate
Construction

Jess Bernardo is the Construction Manager at Project Development Solutions (PDS), where he leads interdisciplinary construction teams and provides expert guidance in construction execution, project controls, and safety management. With over 30 years of global experience, Jess has managed complex industrial and commercial projects across the U.S., Philippines, Singapore, and Africa.

His background spans civil, structural, architectural, and mechanical piping systems, with a track record of successfully delivering projects in the oil & gas, renewables, pharmaceutical, chemical, and education sectors. At PDS, he oversees pre-planning, cost tracking, commissioning, and construction progress reporting for infrastructure and facility builds, including high- and low-pressure well systems.

Before joining PDS, Jess served as a Project Manager at Cenergy International, where he led capital infrastructure builds and commissioning projects in the energy sector. He also worked with the Los Angeles Unified School District (LAUSD) modernization program through Enterprise Construction Inc., where he supervised daily site operations and assisted in cost estimating, scheduling, and quality control.

Career Highlights:

- **Oil & Gas Infrastructure (Cenergy):** Managed full-cycle construction and commissioning of wellsite and facility projects across California's energy sector, including AFE budgeting and contractor oversight.
- **LAUSD School Modernization Projects:** Supervised day-to-day construction of CSA, MEP, and low-voltage systems; supported project management with scheduling, estimating, and bid documents.
- **Pharmaceutical & Chemical Plant Facilities:** Directed construction management and QA/QC activities for international projects in Singapore and the Philippines, coordinating field teams and engineering staff.

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Technical Team Members

Charles Amarikwa

Role: Electrical Engineering Advisor
Years of Experience: 35+
Education/Certifications:
B.Sc. Elec. Engineering
Professional Elec. Engineer
Instrument Society of America
Institute of Electrical & Electronic Engineers
Industry Expertise:
Oil& Gas
Renewable Energy
Construction

Charles Amarikwa is a subcontracted Electrical Engineer with Project Development Solutions (PDS), where he leads electrical systems support for energy projects across the U.S. and Africa. He is also the Principal Engineer and Owner of Concise Image Inc., a multidisciplinary design, engineering, and construction firm.

Charles brings over 42 years of experience in electrical engineering, specializing in power system analysis, protection and control design, equipment specification, and project management for industries including oil processing, power generation, water treatment, and petrochemicals.

His career spans leadership roles at Fluor Daniel Inc., Delta Construction Inc., and Raymond Professional Group Inc., where he provided consulting, design review, and construction permit support. Charles is a registered Professional Electrical Engineer in California and a licensed General Engineering Contractor. He is a member of the Institute of Electrical and Electronics Engineers (IEEE), the Instrument Society of America, and the Eta Kappa Nu Association, bringing extensive technical depth to PDS projects and clients.

Career Highlights:

- **Concise Image, Inc. – Power & Control Systems:** Principal Engineer and Owner providing power system analysis, control systems design, equipment specification, and permitting support for oil, water treatment, and power generation projects.
- **T.J. Cross Engineers, Inc. – Petrochemical Projects:** Delivered electrical and control system design, equipment specs, and P.E. reviews for petrochemical facilities; supported permitting and project execution.
- **Fluor Daniel, Inc. – Industrial Facilities:** Led electrical and instrumentation engineering for petrochemical, cogeneration, and water treatment plants, including project management, permitting, and team oversight.

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Technical Team Members

Anand Janaswamy

Role: Solar & O&M Advisor
Years of Experience: 30
Education/Certifications:
MBA
M.S. Electrical & Electronics Engineering
Industry Expertise:
Solar Energy
Renewable Energy
Real Estate
Construction

Anand Janaswamy serves as the Solar O&M Advisor at Project Development Solutions, bringing over 30 years of experience in solar energy, semiconductors, and environmental technologies. He provides expert guidance on operations and maintenance strategy, system performance optimization, and long-term asset reliability for solar infrastructure projects.

Prior to joining PDS, Anand served as Chief Technology Officer at LE Solar, an LS Power company, where he led technology strategy, product selection, systems engineering, vendor management, and post-installation O&M activities. He previously held the role of Senior Vice President of Product Development and Utilization at OneRoof Energy, overseeing solar product development, engineering, procurement, and operations support.

Anand also served as Director of New Products and Business Development at Hanwha Q CELLS, leading product innovation across residential, commercial, and utility-scale markets. His earlier roles include leadership positions at Applied Solar LLC, Maxim Integrated, and Philips Lighting, with a focus on engineering, product development, and commercialization.

Career Highlights:

- **Semi-conductors:** Power Electronics specialist and designed various DC-DC converters for laptops, cell phones, PDA etc. that sold millions of devices.
- **Renewable energy:** Managed cross functional teams comprising of Technology, Operations, Engineering, Procurement, Construction and O&M for large scale third party owned residential and commercial segments.

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Key Projects

Project Title	Project Summary	Responsibilities
3.6 MW Microgrid Project	Project Development Solutions provided construction management, engineering, design, and permitting support. The team coordinated all subcontractors across disciplines and managed the scheduling, delivery, and installation of major electrical and mechanical equipment—including HV/MV switchgear, transformers, battery storage, gas gensets, a cooling tower, and ammonia-based SCR systems—handling equipment up to 90 tons.	Provided project engineering and design support Managed permitting for electrical and mechanical systems Oversaw onsite construction of all subcontracted trades Coordinated delivery and installation of major electrical and mechanical equipment Supervised handling and placement of heavy components (1–90+ tons)
P.A.W. Solar Project	Installation of a 1.0 MW DC ground-mounted solar project. Project Development Solutions provided comprehensive support through project engineering, system design, permitting, and utility interconnection coordination—delivering a 90% complete engineering design package to advance the project toward construction.	Provided project engineering and system layout design Developed permitting documentation and submittals Coordinated utility interconnection application Prepared a 90% complete engineering design package Supported pre-construction technical development
City of Needles – Solar Carport Project	Project Development Solutions (PDS) provided full-service project delivery for the City of Needles' solar carport at the Colorado River Station, a clean energy infrastructure project designed to reduce municipal energy costs and provide shaded parking. PDS managed the project end-to-end, from early planning and permitting to construction and closeout. The team led electrical and site layout design, grid interconnection coordination, and ensured compliance with local permitting requirements. PDS also oversaw procurement, construction, and installation activities, delivering a fully permitted and operational solar carport system.	Led electrical and site layout design Managed grid interconnection and permitting compliance Oversaw procurement and construction activities Coordinated installation of the solar carport system Delivered a fully permitted and operational clean energy system
Plaza Project	Installation of a 2.3 MW DC carport solar project. Since August 2019, Project Development Solutions has provided ongoing in-house advisory and consulting services, supporting the client across all phases of solar project development. Services include power purchase agreement (PPA) negotiations, real estate curative actions, utility interconnection coordination, and end-to-end project execution support.	Provided ongoing solar development advisory services Supported power purchase agreement (PPA) negotiations Led real estate curative reviews and resolution activities Coordinated utility interconnection applications and approvals Advised on project development strategy and execution phases

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Key Projects

Project Title	Project Summary	Responsibilities
PV Ground Mount NEM Solar Systems – Behind the Meter (Oil Field Portfolio) **(6 BTM Total 9.6 MW DC**)	Project Development Solutions supported the development of six behind-the-meter ground-mounted solar projects located across various oil fields, totaling approximately 9.6 MW DC of installed capacity. Sites included Yowlumne, Tejon, Wheeler Ridge, Rio Viejo, Pleito Ranch, and Antelope Hills Oil Fields. Each system was designed to offset onsite energy demand through net energy metering (NEM), improving operational efficiency and reducing utility costs for field operations.	Delivered up to 30% engineering design packages for all six projects Provided site-specific project engineering and layout design Supported permitting and utility interconnection processes Ensured system compliance with NEM requirements and utility standards
PV Ground Mount Solar Systems – Front of the Meter (Utility-Scale Portfolio) **(4 FTM Total 3.3 MW DC)**	Project Development Solutions supported the development of multiple front-of-the-meter utility-scale solar projects, designed for grid export under power purchase agreements (PPAs). These ground-mounted systems represent a combined capacity of over 3.3 MW DC, with sites across various locations in California. PDS provided early-stage technical and regulatory support to advance each project toward construction readiness.	Provided project engineering and site layout design Supported permitting and interconnection application processes

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Contact Us

A Project Development, Engineering Procurement and Construction (EPC) Company

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