



HT Mangalan

Vasudevan Ramalingam

Energy • Infrastructure • Capital Strategy

UNIVERSAL PHI PRIVATE LIMITED

Energy • Infrastructure

Overview

Universal Phi Private Limited is an energy and power-infrastructure execution company operating across Tamil Nadu, focused on transmission lines and substation engineering for utility and public-sector projects. The company is structured as a disciplined EPC platform delivering end-to-end field execution, with emphasis on regulatory alignment, system reliability, safety compliance, and long-life public assets.

Transmission Line EPC

The company undertakes transmission line works across medium and high voltage levels, supporting grid expansion, evacuation, and network strengthening initiatives. Execution scope covers the complete lifecycle, including:

- Survey, route finalization, and tower spotting
- Foundation works, erection, stringing, testing, and commissioning

All works are delivered in coordination with state utilities, project owners, and statutory authorities.

Substation EPC

Universal Phi Private Limited executes substation projects across multiple voltage classes with a focus on AIS configurations. Execution scope includes:

- 11/33 kV AIS substations
- 110 kV and 230 kV AIS substations
- Bay works, interconnections, protection systems, testing, and energization

Execution is aligned with approved drawings, technical specifications, and applicable statutory requirements.

End-to-End Execution Scope

The company delivers integrated EPC execution from early-stage field readiness through final handover. Scope includes detailed surveys, soil investigations, technical feasibility assessments, approvals coordination, execution planning, structured site supervision, safety management, quality control, documentation, and milestone-based delivery.

Operational Capability

Operations are supported by an experienced field workforce and technical team with dedicated supervision and project-specific machinery. Execution is currently undertaken across multiple districts in Tamil Nadu, enabling simultaneous project delivery, schedule control, and consistent adherence to utility standards across varied terrains, project scales, timelines, and evolving grid requirements.

Execution Philosophy

Universal Phi Private Limited operates with a clear execution philosophy centered on discipline, transparency, accountability, and delivery certainty. The company focuses on dependable execution of critical grid infrastructure that supports long-term network performance, public-sector reliability, and regional development and continuity.

We build dependable infrastructure through clarity, discipline, partnership, and purpose to support long-term regional progress.

HT MANGALAN PRIVATE LIMITED

Energy • Infrastructure

Overview

HT Mangalan Private Limited is an energy and infrastructure execution company positioned for long-term ownership and sustained growth across utility, public works, and advanced power systems. The company operates as a stable operating platform focused on underground cabling, public infrastructure delivery, and future-ready grid solutions, with a mandate aligned to durability, scalability, and institutional engagement.

Underground Cable Works

Underground power cabling represents the core execution capability of the company, addressing urbanisation, safety, and right-of-way constraints across modern power networks. Execution scope includes end-to-end implementation of HT and LT underground cable systems, covering survey, statutory coordination, execution planning, and field delivery.

Key execution activities include:

- Route surveys, utility coordination, and government approvals
- Trenching, horizontal directional drilling, and duct laying
- Cable laying, termination, jointing, testing, and commissioning

These works support loss reduction, public safety, reliability improvement, and long-term network resilience in dense urban, industrial, and infrastructure-sensitive environments.

Public Works and PWD Infrastructure

The company undertakes public works and PWD-aligned infrastructure projects in coordination with government departments and local authorities. Scope includes electrical and allied infrastructure works associated with roads, canals, and water systems.

Key areas include:

- Road works with integrated electrical and utility infrastructure
- Check dam construction and associated electro-mechanical works
- Reservoir and channel desilting, silt removal, and dam cleaning activities

All works are executed in accordance with approved drawings, technical standards, and statutory requirements.

Smart Grids and Digital Infrastructure

HT Mangalan Private Limited is expanding into smart grid and digital power infrastructure, including standalone grid systems powered by renewable energy. These systems integrate battery energy storage to reduce transmission dependency, improve reliability, and optimize energy utilization at local levels. AI-enabled monitoring, loss analytics, and control layers support efficient grid operation and decision-making.

Operating Philosophy

HT Mangalan Private Limited operates with a long-term execution philosophy focused on ownership, accountability, and continuous capability development. The company prioritizes dependable delivery, institutional trust, and progressive integration of technology into infrastructure platforms that support sustained regional development and continuity.

GOLDEN ENERGY (UAE)

Capital Strategy

Overview

Golden Energy is a Dubai-based capital strategy and asset orchestration platform established to structure, deploy, protect, and multiply capital across energy and infrastructure ecosystems. The platform operates at the intersection of execution, ownership, and long-cycle asset creation, enabling disciplined capital movement aligned with sovereign frameworks, institutional mandates, and multi-jurisdictional requirements.

Capital Orchestration and Structuring

Golden Energy designs capital frameworks that enable efficient deployment while preserving long-term control, downside protection, and capital scalability. The platform integrates operating companies, asset ownership vehicles, and financing structures into coherent systems that support both capital preservation and measured wealth amplification over time.

Core structuring capabilities include:

- Asset Protection Trust and Family-Office-Aligned holding structures
- Special purpose vehicles across India, the Middle East, and select offshore jurisdictions
- Governance design, risk isolation, and capital ring-fencing mechanisms

These structures enable disciplined capital compounding while maintaining institutional-grade control.

Debt Platforms and Institutional Capital

Golden Energy actively structures and facilitates debt capital for large-scale energy and infrastructure platforms. Focus areas include sovereign-linked entities, public-sector undertakings, and infrastructure assets requiring long-tenure, structured financing.

Key capital engagement areas include:

- Debt structuring for state government and quasi-government entities
- Project-level financing for power, grid, and infrastructure assets
- Platform-level capital alignment with development finance and institutional lenders

Capital deployment remains closely linked to execution visibility and repayment certainty.

Asset Ownership and International Platforms

The platform supports direct and indirect ownership of long-cycle energy assets, including power generation and grid-linked infrastructure across emerging markets, with a focus on Africa. These assets enable durable cash flows, geographic diversification, and reinvestment optionality within a controlled governance framework.

Operating Philosophy

Golden Energy operates with a principal-led philosophy centered on discretion, alignment, and disciplined decision-making. The platform prioritizes capital clarity, execution linkage, and sustained wealth multiplication through structured ownership, selective leverage, and long-term asset stewardship.

VASUDEVAN RAMALINGAM

Founder & Chief Executive Officer

Who He Is

Vasudevan Ramalingam is an energy and infrastructure principal with over **a decade of entrepreneurial leadership**, having built and operated companies continuously since **2011** across India, the Middle East, Africa, and Europe. He operates at the intersection of **engineering depth, execution control, and capital structuring**, serving as the central decision-maker behind integrated infrastructure and asset platforms.

Education & Technical Foundation

He holds a **Bachelor of Engineering (Hons) in Electrical and Electronics Engineering** from **BITS Pilani, Dubai Campus**, forming the foundation for his work across complex power systems, grid infrastructure, and large-scale energy projects.

Platforms Led

He is the **Founder and Chief Executive Officer** of **Universal Phi Private Limited**, **HT Mangalan Private Limited**, and **Golden Energy (UAE)**, providing unified intellectual and strategic leadership across execution, capital, and ownership layers.

What Sets Him Apart

He has the rare capability to **conceptualize, structure, and develop Detailed Project Reports for large-scale energy projects**, including platforms extending up to **USD 10 billion**. He combines **on-ground execution knowledge** with **system-level thinking**, allowing him to **translate policy intent and capital into bankable, executable infrastructure**.

Global Asset & Technology Focus

In Africa, he is developing **solar power plants integrated with Battery Energy Storage Systems**, structured around **private PPAs and smart off-grid models**. He also leads **Project Indhra**, focused on **smart grids, AI-enabled grid intelligence, loss reduction**, and applied research into **advanced energy systems**, including supercapacitors.

Capital & Institutional Alignment

He is partnered with **Siraj Holding International LLC**, **DIFC**, supported by a parent group with a **USD 2+ billion balance sheet** and an institutional lending arm, enabling structured capital deployment for large energy and infrastructure platforms.

SELECTED WORKS

Representative Execution & Field Implementation Experience

The following represents a selected cross-section of execution and project-development exposure across energy and urban infrastructure programmes. The experience outlined below reflects lifecycle coverage, coordination depth, and on-ground delivery capability across technically complex, scale-driven, and utility-led environments.

Transmission & Grid Infrastructure

- Distribution and sub-transmission works across **11 / 22 / 33 kV** networks
- **110 kV and 230 kV** transmission line projects
- New feeder creation, bay extensions, and grid interconnections
- **End-to-end lifecycle execution**, including detailed route surveys, statutory and utility approvals, execution planning, foundation works, erection, stringing, testing, commissioning, and handover

Substations

- **11 / 33 kV AIS substations** for distribution systems
- **110 / 230 kV AIS substations** for transmission applications
- Primary and secondary equipment installation
- Protection systems, control panels, testing, energization, and grid integration
- Coordination with utilities for approvals, shutdowns, and phased commissioning

Underground Cabling (Urban & Utility-Scale)

- **HT and LT underground cabling** across dense urban and industrial zones
- Execution in traffic-sensitive, right-of-way-constrained, and live-network environments
- Detailed route surveys, stakeholder coordination, and statutory approvals
- Trenching, **horizontal directional drilling (HDD)**, duct laying, and reinstatement
- Cable laying, jointing, termination, testing, commissioning, and network integration
- Phased execution aligned with ward-wise, feeder-wise, and utility programme structures

Smart Metering & AMI Field Implementation

- End-to-end **smart meter field execution** under large-scale AMI programmes
- Consumer and asset surveys, indexing, and utility approvals
- Installation planning and **material requirement planning provided to clients**
- Coordination with AMISPs and main EPC contractors for material supply and logistics
- Meter installation, replacement, commissioning, and sealing

- Communication validation, head-end system integration support, and server connectivity confirmation

Project Development & DPR Exposure

- Preparation, review, and technical leadership of **Detailed Project Reports (DPRs)** for power and infrastructure projects
- Scope covering technical design, execution methodology, grid and storage integration, implementation planning, phasing strategy, and risk identification

Public Infrastructure & Utility Works

- PWD-linked electrical and infrastructure works
- Road-associated utility integration and corridor coordination
- **Check dam–related infrastructure**, reservoir and channel **desilting**, silt removal, and dam cleaning activities

Renewable Energy & Storage

- Utility-scale and private **solar PV plants**
- **Battery Energy Storage Systems (BESS)** for grid support and reliability
- Hybrid, decentralized, and smart off-grid energy configurations

Geographic Footprint

- Multiple districts across **Tamil Nadu and other Indian states**
- Middle East
- **Select African markets**

ONGOING PROJECTS

Current Status & Execution Readiness

The following outlines current execution status, active engagements, and near-term execution readiness across energy and infrastructure domains. The information below clearly distinguishes between **active works**, **execution-ready verticals**, and **historical delivery experience**, ensuring transparency and institutional credibility.

Grid & Distribution Networks (Active Execution)

- Ongoing strengthening of **11 / 22 / 33 kV** distribution systems
- Feeder extensions, network augmentation, and reliability improvement works
- Live-network execution with phased planning and utility coordination
- Continuous surveys, approvals alignment, execution, and commissioning

Substations & Transmission (Execution Readiness)

- Dedicated teams mobilized for **AIS substation and transmission works**
- Participation in tenders and advanced-stage commercial and technical negotiations
- Execution frameworks, planning capability, and field resources in readiness
- Commencement subject to award finalization

Underground Cabling (Execution Readiness & Expansion)

- Execution capability supported by a **core partner with extensive UG cabling experience**
- Exposure to **district-scale underground cabling programmes**
- Trenching, HDD, duct laying, cable installation, testing, reinstatement, and commissioning
- Active engagement for upcoming urban and utility-scale UG cabling programmes

Smart Metering & AMI Programmes (Pre-Award Stage)

- Involvement in **tender application and bid-support processes** for large AMI programmes
- Execution methodology, field planning, and coordination frameworks prepared
- Field execution to commence upon award to the principal AMISP or EPC

Renewable Energy (Historical Delivery & Development Focus)

- Prior involvement in **utility-scale solar PV projects** across Tamil Nadu
- EPC and commissioning consulting roles for multiple ground-mounted plants
- Successful exit from a **50 MW solar project** at development stage
- Experience across ground-mounted and rooftop solar installations
- Actively evaluating new solar and storage development opportunities

International Experience (Historical)

- Electrical MEP execution across residential, commercial, and mixed-use developments in **Dubai (2011–2019)**
- Scope included LV/MV wiring, DBs, SMDBs, MDBs, and switchgear installations

CAPABILITY MATRIX

Scope of Engagement & Principal Roles

This matrix summarizes how Vasudevan Ramalingam engages across the full lifecycle of energy and infrastructure platforms, with emphasis on DPR-led bankability, capital readiness, and disciplined execution. It is designed for senior decision-makers to quickly assess role clarity, depth of involvement, and scalability across complex programmes.

Capital Structuring & Institutional Readiness

- SPV structuring and ring-fenced project platforms with governance and reporting frameworks
- DPR-linked engagement for institutional debt readiness and financial closure support
- Risk structuring, covenant logic, and documentation alignment with utility and regulatory environments
- Long-horizon asset structuring, portfolio aggregation logic, and capital recycling pathways

Detailed Project Reports (DPRs)

- Leadership of large-scale DPRs for energy, grid, and storage programmes
- Technical design, execution methodology, phasing strategy, and BoQ constructability checks
- Grid integration, protection philosophy, storage strategy, and implementation planning
- DPR documentation suitable for lender, utility, and government review

Project Origination & Development

- Feasibility analysis, site identification, and technical viability assessment
- Utility interface, approvals pathway mapping, and compliance alignment
- Structuring of scalable, multi-location programmes

Engineering, Procurement & Execution

- EPC delivery across transmission, substations, UG cabling, and distribution strengthening
- Field planning, mobilisation, supervision, testing, commissioning, and handover
- Quality, safety, and documentation control aligned to utility acceptance standards
- Parallel work-front coordination and contractor management

Smart Grids, Storage & Advanced Systems

- Smart grid architecture and decentralized reliability design
- AI-enabled grid intelligence (**Project Indhra**) for loss reduction and optimization
- BESS integration and exposure to advanced energy systems, including supercapacitors

Digital Tools & Software Proficiency

- Power system studies, load analysis, and network planning tools
- DPR modelling, BoQ structuring, and schedule development platforms
- Project monitoring, documentation control, and reporting systems
- Data-driven decision support for execution and asset performance

Mode of Engagement

- Principal and asset owner
- Developer and technical sponsor
- EPC execution partner
- Capital and programme structuring lead

CONTACT

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