

PIER ENGINEERING SOLUTIONS

AEDSC

(Annual Electrical Design Support Contract)

Dedicated Partnership for Continuous Electrical Design Excellence

Fixed-Price • Predictable • Scalable

What is AEDSC?

AEDSC is a dedicated annual partnership model that provides your organization with continuous electrical design support at predictable costs. Unlike project-based engagement, AEDSC offers flexibility, rapid turnaround, and consistent design quality.

- Fixed-price annual contracts tailored to your project pipeline
- Dedicated design capacity with rapid turnaround times
- Zero revision returns commitment
- Seamless collaboration with your EPCs, OEMs, and consultants
- Scalable from 10 to 200+ design hours per month

AEDSC covers the full spectrum of electrical design needs—from concept to final deliverables, including support for compliance, coordination, and project execution.



AEDSC vs Traditional

A clear comparison of reliability, speed, cost, and quality



AEDSC



Traditional

💰 Pricing

Fixed, Predictable

Time & Material / Variable

📄 Scope Management

Clear, Upfront

Evolving (Change orders)

🕒 Delivery Time

SLA driven

Project-Dependent

🤝 Client Involvement

Kickoff + Milestone

Constant follow-ups

🔄 Workflow Stability

Standardized Team

New Team Onboarding

✓ Quality control

Mostly Zero-Revisions

Iterative rework

📁 Documentation Consistency

Uniform Templates

Varies by Project & Team

📊 Cost Predictability

High certainty

Moderate to Low

Traditional engagement = slow, costly, repetitive contracting

AEDSC = predictable, fast, continuous support

Service Scope



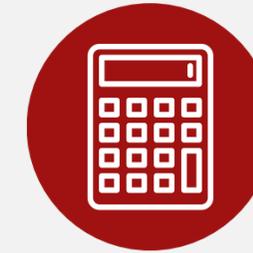
Design & Documentation

- **Single Line Diagrams (SLDs):** LV/MV distribution, protection schemes
- **Equipment Layouts:** Power, control, lighting, earthing, cable routing
- **Documentation:** Load lists, cable schedules, specifications, datasheets, BOQ
- **Design Basis & Standards:** IEC, IEEE, NEC, IS, OISD, NBC, Shell DEP, SABIC, ADNOC compliant
- **Vendor Coordination:** Drawing review, technical bid evaluation, method statements
- **3D Modeling Review Support & Visualization:** CAD layouts for site planning and coordination



Analysis & Calculations

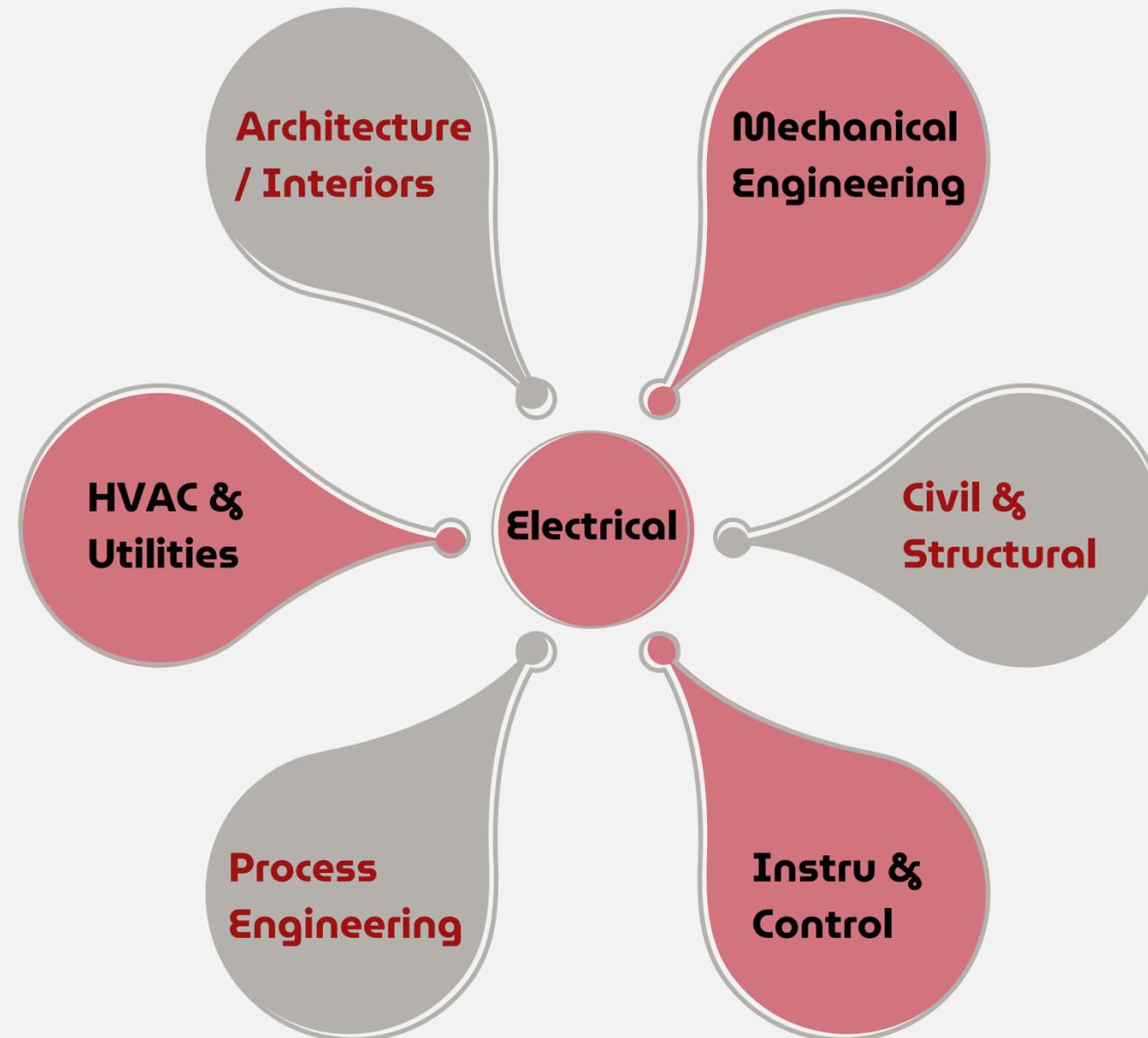
- **Power System Studies:** Load flow, short circuit, motor starting, fault analysis
- **Protection Coordination:** Relay settings, time-current coordination studies
- **Arc Flash Assessment:** Safety analysis and hazard classification per IEEE 1584
- **Voltage Drop & Harmonics:** Power quality analysis with mitigation strategies
- **Equipment Sizing:** Transformer, switchgear, NGR, UPS, generator sizing calculations, Lighting Calculation
- **Advanced Tools:** ETAP, SKM, Dialux, AGI32, CAD for detailed analysis



Compliance & Coordination

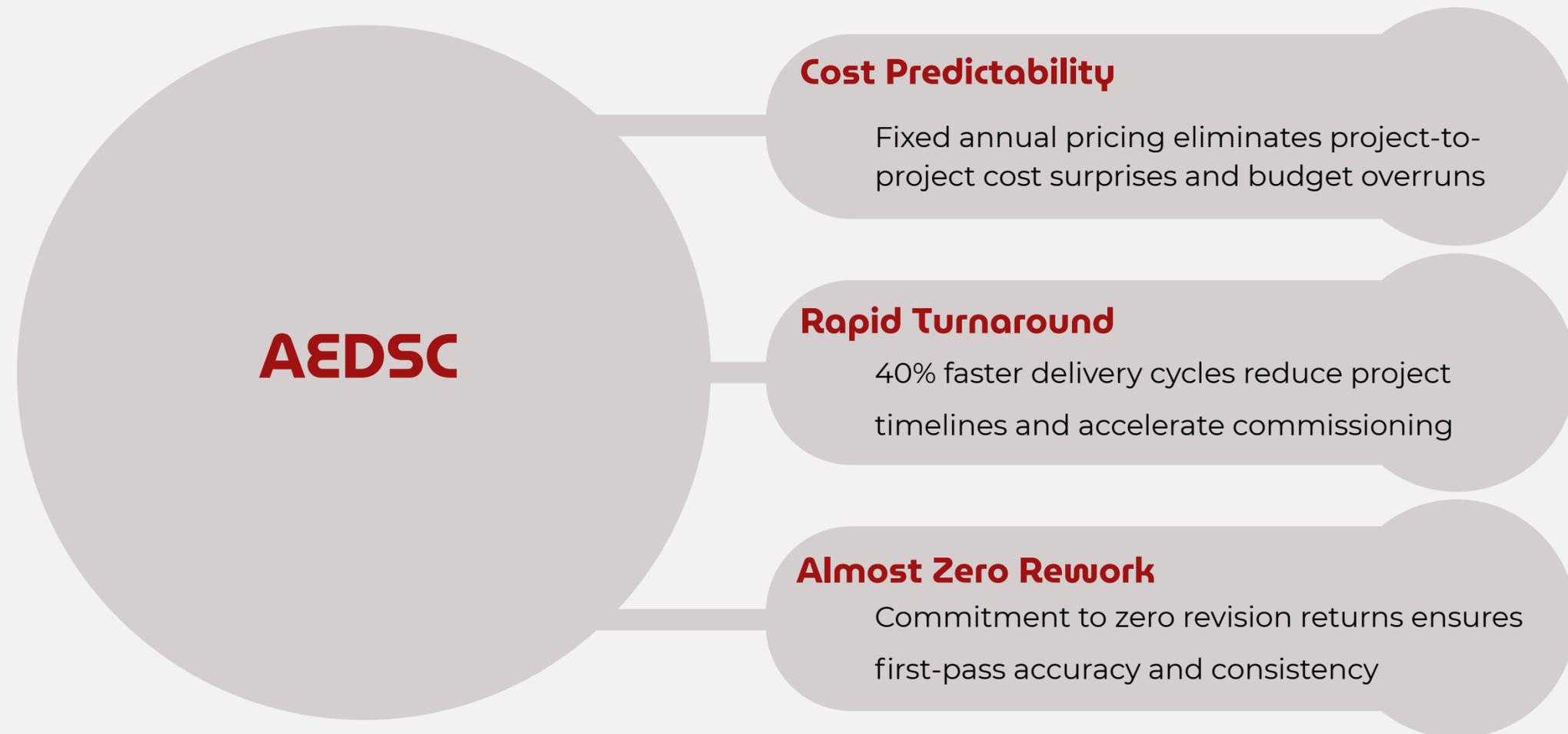
- **Standards Compliance:** IEC, IEEE, NEC, IS, NBC, Shell DEP, SABIC, ADNOC, OISD
- **Regulatory Support:** Design review for code compliance, pre-approval documentation
- **FAT/SAT Support:** Factory and site acceptance testing coordination
- **Document Updates:** Revision management, as-built verification, design change control
- **Multidisciplinary Coordination:** Integration with civil, mechanical, instrumentation & automation teams
- **Confidentiality & NDA:** All documents handled under strict NDA protocols

Interdisciplinary Coordination



A fully coordinated electrical design with zero clashes, reduced rework, smoother approvals, and faster project execution.

Key Benefits of AEDSC



Why Choose AEDSC?

- **Proven Experience:** 70+ projects globally with consistent zero-revision track record, served 12+ Countries
- **Global Standards Compliance:** IEC, IEEE, NEC, OISD, Shell DEP, SABIC, ADNOC, Saudi Aramco, AS/NZS
- **Advanced Tools & Technology:** ETAP, SKM, Dialux, CAD, 3D modeling
Review Support for optimized designs
- **No Hidden Costs:** Fixed-price model with transparent scope and deliverables
- **Client-Aligned Approach:** Your success is our priority; pragmatic, timely solutions
- **Confidentiality & Trust:** Strict NDA protocols and transparent communication

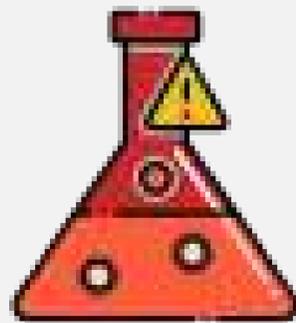


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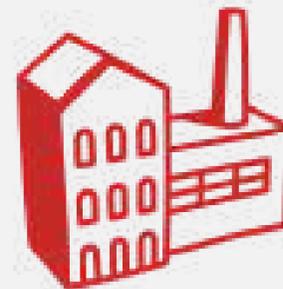
Sectors We Serve



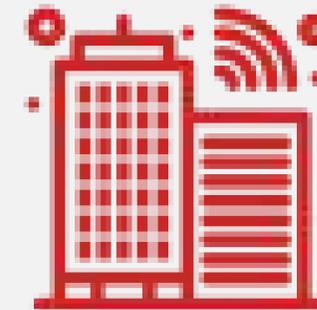
Oil & Gas



Petrochemical/Chemicals



Industrial Manufacturing



Infrastructure



Water / STP / WTP



Datacenter



Warehouse

Case Study:

Boiler Supplier Partnership

- **Challenge:** Frequent electrical design cycles for varied boiler types and capacities with tight project timelines. Internal team capacity was stretched; external hiring delayed project delivery.
- **Solution:** Established AEDSC with fixed-price lighting design support tailored to boiler design frequency and scope standardization
- **Result:** 40% reduction in design cycle time. Zero revision returns maintained across 10+ projects. Reduced hiring overhead, predictable engineering costs



Case Study: *Oil & Gas Midstream Operator*

- **Challenge:** Repetitive complete electrical design needs for similar extraction and compression projects (SLDs, earthing, lighting, cable routing, layouts). Frequent team hiring cycles delayed standardization
- **Solution:** AEDSC for full electrical design package with fixed project pricing. Standardized design templates and workflows for consistency across 10+ concurrent projects.
- **Result:** BIS/OISD compliant designs delivered in 40% less time. almost Zero rework across 5+ projects. Significant cost savings from streamlined processes. Enhanced team capacity without hiring.



PILCER

Implementation Process

Discovery Call –

Understand your project pipeline, design scope, timelines, and requirements

Proposal & Plan –

Tailored AEDSC structure with hour allocation, deliverables, and pricing

Contract Finalization –

- Agreement on scope, standards, confidentiality, and support model

Onboarding & Integration –

- Team alignment, tool setup, workflow standardization

Continuous Delivery –

Monthly support, quarterly reviews, performance metrics tracking

Who Is AEDSC For?

AEDSC is ideal for companies who:

- Have repetitive design needs across the year
- Want to avoid hiring full-time electrical engineers
- Need fast turnarounds for projects or revisions
- Have low-to-medium complexity electrical systems
- Need ongoing support for EPC deliverables
- Require standardized drawings across multiple projects
- Need to keep documents updated across design changes
- To ensure purchase of correct and cost effective materials for their project



Pricing Model & ROI

AEDSC ROI Comparison:

- Traditional Project-Based: Hiring + onboarding (~8-12 weeks), ~30-40% overhead
- AEDSC Model: Immediate capacity, 0% hiring overhead, fixed annual cost
- Typical Savings: **25-35%** cost reduction + 40% faster delivery

Example:

40 hrs/month at ₹X/hour = Fixed Annual Investment with predictable output, no hidden costs, zero rework penalties



Standards & Tools

Conversant with international and regional electrical codes:

- IEC, IEEE, NEC, BS/EN, IS, AS/NZS, NBC, Shell DEP, Saudi Aramco, ADNOC, SABIC, OISD compliance

Conversant with advanced tools:

- CAD, ETAP, SKM, Dialux, AGI32, PSCad, CYME, etc.



Our Clientele



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We look forward to engaging
with you and exploring
opportunities for collaboration.

