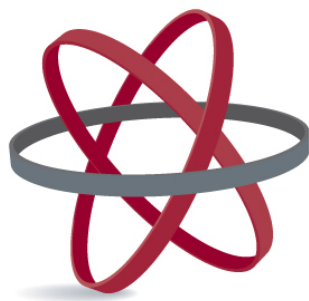


# COMPANY PROFILE



**D2F**  
TECHNICAL  
LIMITED

*design - construct - deliver*



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## Introduction

D2F Technical Ltd. (D2F) is a fast paced, service-oriented and responsive company with a proven track record in providing Engineering, Procurement, Construction and Maintenance (EPCM) services.

D2F was formed in 1985 in Trinidad and Tobago, in response to the need for professional engineering expertise combined with a construction capability. Today, we are a full-service company and the solution provider of choice to a wide cross-section of industries.

D2F has the proven track record to meet your EPCM demands and provides the most rapid turnaround in the market.

## About Us

### D2F Mission Statement:

D2F Technical Limited will provide application engineering and construction expertise of the highest international standards to its clients through the employment of committed, competent, professional staff, the appropriate level of technology and the appropriate management techniques aimed at ensuring the highest levels of safety, quality and environmental standards.

### D2F Vision:

D2F's vision is to be a premier global provider of Engineering, Procurement, Construction and Maintenance services, exceeding our clients' expectations on every project through a focus on Safety, Quality and Integrity. Our services ensure our clients a safer workplace, their clients a quality product and a cleaner global environment for all.

### D2F Core Values

**Integrity:** This is the founding block of D2F and continues to drive the corporate culture. We operate with honesty and integrity in everything we do.

**Teamwork:** We pride ourselves on our teamwork. Teamwork can only be achieved through trust between team members. Trust can only be achieved through honesty. We require and encourage open and honest communication between all team members to foster the best possible environment to ensure project success. From supplier through employee to client - we are in it together so let's work together

**Improvement:** We evaluate everything we do and are committed to doing it better the next time. Getting better gets us better.

## Project Goals

On every project, D2F sets four (4) goals to ensure a successful project completion. They are as follows:

1. **Zero HSE incidents** - Health, Safety and the environment are paramount on all D2F projects. Safety first – Every time

2. **100% client acceptance on quality** - D2F's quality system ensures all client quality specifications are met or exceeded
3. **Project completion on time** - D2F project management ensures all agreed deliverables are completed and accepted within
4. **Project completion within budget** - D2F project management ensures client value and return on investment are maximized by completing the project within budget

### Health, Safety & Environment Policy Statement

Our policy at D2F Technical Limited is to provide a safe and healthful workplace for every employee, and to abide by, and enforce those safety practices, techniques, rules and regulations that apply to their workplace.

D2F Technical Limited will endeavor to provide safe work conditions, equipment and necessary personal protective equipment that is acceptable and proven to be effective.

The company provides 'on site' first aid, and medical services will be made available in cases of injury. All accidents and incidents are promptly reported to the relevant authorities.

Weekly safety meetings and safety audits are held to ensure that every reasonable effort is made in the interest of accident prevention and health preservation, as we believe that the safety and well being of our employees can be accomplished only through constant and diligent efforts.

At D2F Technical Limited, priority is given to safety in order to protect life, health, prosperity and environment.

Safety on the job is a requirement, not an option.

### Technical Advantage

D2F is a fast paced, service-oriented and responsive company with a proven track record in providing Engineering, Procurement, Construction and Maintenance (EPCM) services. D2F was formed in 1985 in Trinidad and Tobago, in response to the need for professional engineering expertise combined with a construction capability. Today, we are a full-service company and the solution provider of choice to a wide cross-section of industries.

### Reliability:

D2F has the proven track record to meet your EPCM demands and provides the most rapid turnaround in the market.

### Services Offered:

#### Design:

- ▶ Feasibility Studies
- ▶ Conceptual Design Engineering (Process, Civil, Structural, Mechanical, Electrical, Instrumentation)

- ▶ Detailed Design Engineering (Process, Civil, Structural, Mechanical, Electrical, Instrumentation)
- ▶ Design Review
- ▶ Application Expertise
- ▶ Commissioning and Testing

**Procurement:**

- ▶ Specification of Equipment
- ▶ Generating Procurement Documentation
- ▶ Tracking/Expediting of Orders
- ▶ Receipt/inspection of Equipment
- ▶ Storage/Handling of Equipment

**Construction:**

- ▶ Project Management
- ▶ QA/QC Inspection Services
- ▶ Civil/Structural Services
- ▶ Mechanical/Piping Installation
- ▶ Electrical and instrumentation Installation
- ▶ Commissioning and Testing services

**Automation:**

- ▶ Management Information Systems
- ▶ DCS System Installations/Upgrades
- ▶ PLC and PC Based Control Systems
- ▶ Complete Automation of Manual Processes
- ▶ Contract Maintenance
- ▶ HMI Configuration

**Energy Conservation:**

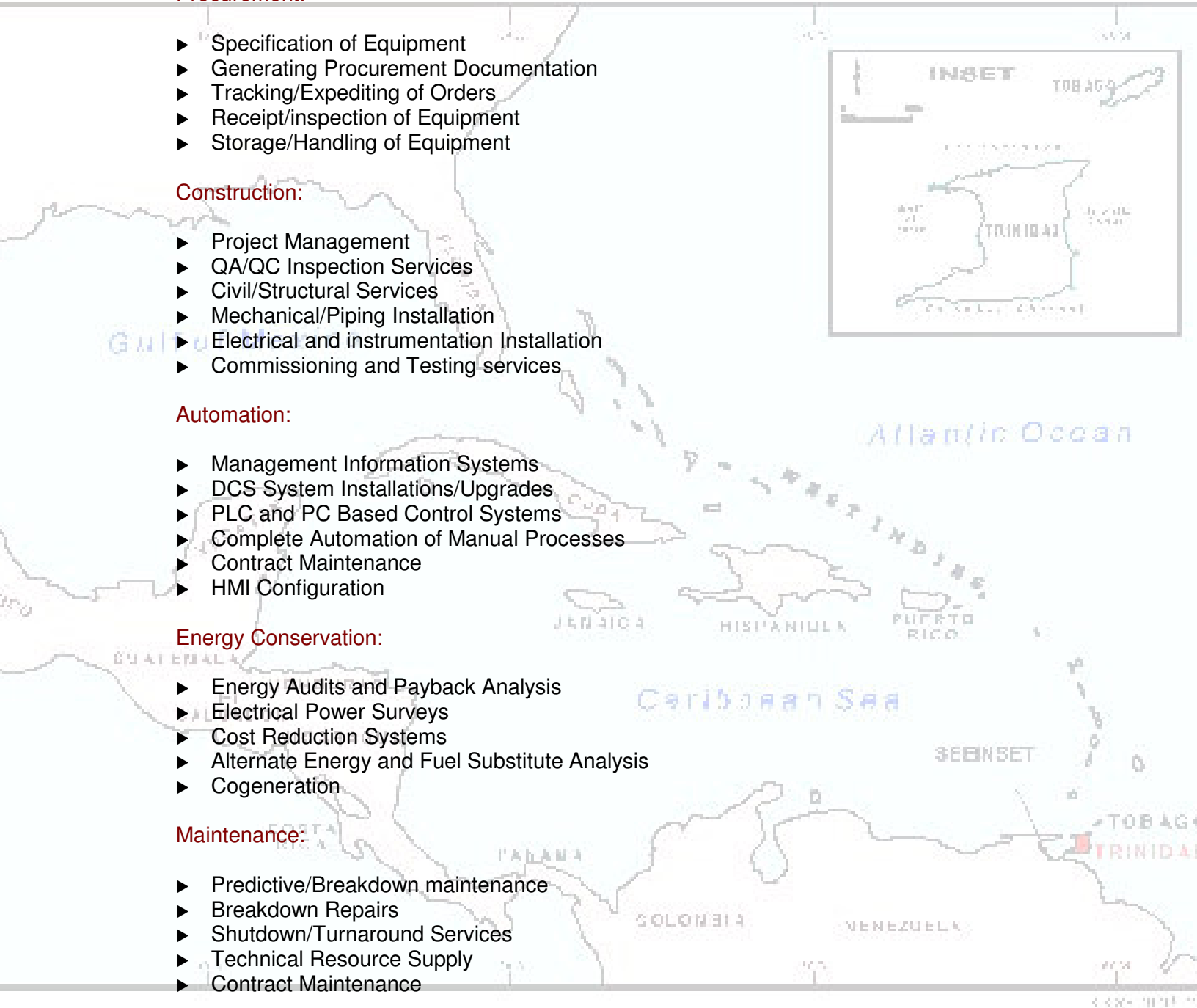
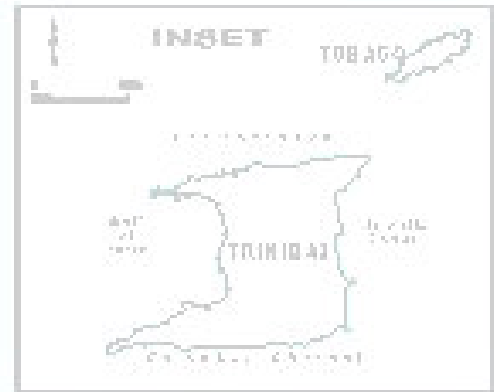
- ▶ Energy Audits and Payback Analysis
- ▶ Electrical Power Surveys
- ▶ Cost Reduction Systems
- ▶ Alternate Energy and Fuel Substitute Analysis
- ▶ Cogeneration

**Maintenance:**

- ▶ Predictive/Breakdown maintenance
- ▶ Breakdown Repairs
- ▶ Shutdown/Turnaround Services
- ▶ Technical Resource Supply
- ▶ Contract Maintenance

**Flexibility:**

Of Course, clients will want to choose the best and most competitive combination of design, supply and construction services to match their requirements. D2F can find the

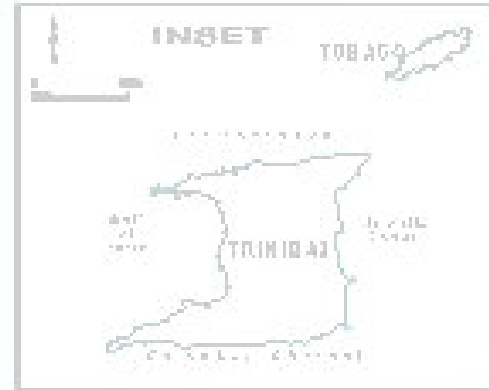


simplest line from concept to completion. Depending therefore on your company's needs, D2F can undertake any one or a combination of the following:

- ▶ Prepare complete Conceptual and Detail Design.
- ▶ Review an existing design and prepare procurement specifications.
- ▶ Purchase and supply project requirements.
- ▶ Construct, test and commission an existing design.
- ▶ Fulfill all your EPC Requirements as one complete "Turnkey" package.

**Industries Served:**

- ▶ Oil and Gas
- ▶ Petrochemical
- ▶ Hydrocarbon Processing
- ▶ Electric Utilities
- ▶ Cement
- ▶ Water and Wastewater
- ▶ Iron and Steel
- ▶ General Industries
- ▶ Light Manufacturing



**Clients:**



## Select Projects:

Client: YARA Trinidad Limited  
Completed: Ongoing



### Profile:

D2F Technical Ltd. is the EPC contractor for an ammonia storage facility green field installation. This green field facility will tie into the existing system replacing certain portions of the existing facility. The replaced plant and equipment are to be demolished. The project is to achieve an increased storage capacity and plant reliability.

The scope includes all engineering disciplines including Process, Civil, Structural, Mechanical, Electrical, Instrumentation and Demolition for the installation of 2 compressors, Process skid, 2 condensers, Compressor house, 500KVA Transformer, MCC and Control room, access roadway, piping, pipe racks, hot tap tie in to existing system, PLC & DCS tie in and demolition of existing plant. The scope also includes procurement of all items outside of Compressors, Condensers and Process skid, Construction of entire project, Commissioning of system and demolition of old system.

The equipment installed is:

- ▶ 2 - 4160V Gas Compressors.
- ▶ 2 - 700HP Condensers
- ▶ 1 – Process skid including receiver, suction accumulator, purger and economizer
- ▶ Structural steel Compressor House Building
- ▶ Reinforced Concrete MCC and Control Room Building
- ▶ 500 KVA pad mounted Transformer
- ▶ 480 V MCC
- ▶ All control, monitoring and safety instrumentation

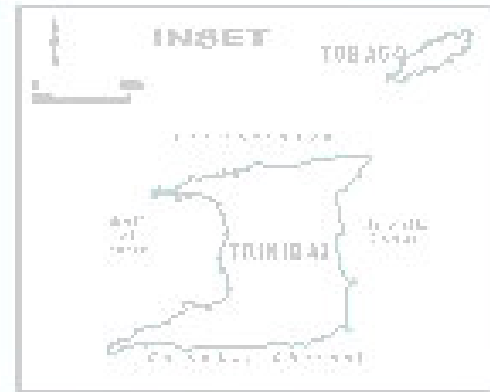
The works include:

- ▶ Generation of all engineering documents – P&ID's, Plant layouts, Foundation designs, Superstructure details, Equipment Layouts, Piping plans, Piping Isometrics, Instrument index, Cable Schedules, Loop Drawings, Coordination Study, Installation details.
- ▶ Procurement including – Preparation of specs, generate procurement packages, evaluation of procurement packages, purchase of items, expediting of orders,

Factory Acceptance Testing, receipt of equipment, Storage and Transport of equipment.

- ▶ Construction including excavation of foundations, placing of concrete roadway and foundations, installation of structural steel pipe racks and superstructures, fabrication of piping, insulation and installation of pipes, installation of valves inclusive of desuperheater valves, installation of equipment, installation of cable trays and cables. Termination
- ▶ Hot tap tie in to existing suction, discharge and flare piping
- ▶ Testing, Commissioning and start up of new plant
- ▶ Demolition of existing plant and buildings

Main Client: Petrotrin  
Completed: 2009



#### Project Profile:

The Works consisted of the complete Design, Construction, Installation, Testing and Commissioning of a 12Kv substation to supply new projects in the Refinery upgrade.

The scope included Installation, Testing and Commissioning of client supplied equipment:

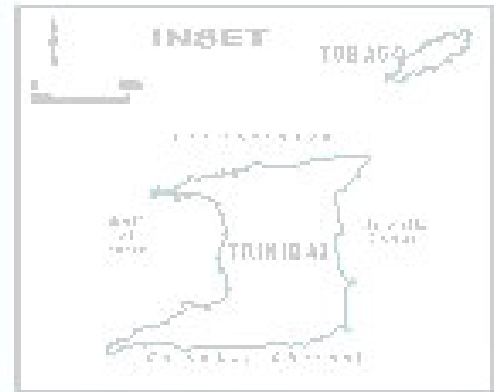
- ▶ 5 MVA Transformers
- ▶ 130 KVA Transformers
- ▶ 12 KV Switchgear
- ▶ 2.3 KV Switchgear
- ▶ 2.3 KV Bus duct
- ▶ Remote Control Switchgear Panels
- ▶ DC Charger and Battery Bank

The scope included Design, Procurement, Supply, Installation, Testing and Commissioning of:

- ▶ L.V. (480V and below) Transformers, Switchgear, Distribution Panels, Cabling, Cable tray, Controls and all associated appurtenances.
- ▶ External, Internal and Emergency Lighting, Substation Grounding, Lightning protection system, Fire detection system and HVAC system.
- ▶ Substation foundation, superstructure, roofing, ceiling, walls and finishes.

- ▶ Site Civil works including access roadway, car park, cable ducting road crossing, Cable trenches, transition boxes, site drainage and associated works.

Main Client: EOG Resources  
 Completed: 2008



**Project Profile:**

The Works consisted of the design and project management/QA/QC control for the electrical upgrade of an offshore Gas Platform.

The scope included Design, Specification and QA/QC Control of:

- ▶ New 480V MCC room with transfer switch, motor starters and distribution panels
- ▶ Upgraded fire and gas detection system and Public address system
- ▶ Upgraded process and emergency lighting
- ▶ All new cable tray and cables D2F Provided:
- ▶ Single line diagrams,
- ▶ Motor schematics,
- ▶ Wiring diagrams,
- ▶ Panel Schedules,
- ▶ Installation details,
- ▶ Cable sizing calculations and Cable route plans
- ▶ Cable tray location plans
- ▶ Equipment Specifications,
- ▶ Bill of materials and installation budget.
- ▶ QA/QC services on the installation works consisting of Inspection of the works to ensure it conformed to client specifications,
- ▶ Daily reports,
- ▶ Test results,
- ▶ Risk assessment forms,
- ▶ Weekly schedule Updates.