

## **Project Portfolio:**

### **Califco Group / OJI-CALIFCO CONSORTIUM INC. (OJI) ~ 7 Years**

Power Plant Modernisation in CA, Honor Rancho: 345 M - Alternative energy, Hydrogen production, Electrolyzer, Gas Turbines, Natural Gas combustion, Fuel Cells, Hydrogen Blending

Alternative Energy Project in CA: 55 M - Hydrogen production, Electrolyzer, Hydrogen dispensing, Hydrogen Storage, Fuel Cells, Power production, Renewable power, Bio-Gas

Power Plant Modernisation in CA, Moreno Valley: 295 M - Alternative energy, Hydrogen production, Electrolyzer, Gas Turbines, Natural Gas combustion, Fuel Cells, Hydrogen Blending

Power Project for Utilities Company in NE USA: 22 M - Power, Oil, Water, Energy and Risk Management, Failure analysis. (Heat exchanger explosion due to super-heated steam)

Petro-chemical / Refinery complex in TX USA: 14 M - Risk Management, Cost Estimation, Business Continuity. (Fire explosion in the Petroleum Storage Tank)

Petro-chemical / Refinery complex in FL: 28 M - Project Management, Risk Management, Estimation, Business Impact Analysis, Failure analysis. (Asphalt Storage Tank leakage in Cyclone).

Water Treatment Project: 755 k - Potable Water, Wastewater, Risk Mitigations

Power for Smart Grids: 32 M - Grid Power, SCADA(PLC), Land surveying, GIS, GPS, LiDAR, Structural construction, Pipeline construction, Pipeline design, Cryogenics (LNG), Natural Gas Transportation

Chemical plant: 65 M - Cryogenics (LNG), Natural Gas Transportation, Pipeline design, Pipeline construction, Equipment design and installation

### **Southern California Edison (SCE) ~ 3+ Years**

Deluge and Firewall: 1.26 M - Industrial Water, Gas, Automation, structural construction

Records Management: 450 k - Asset Management, GIS, Business Resiliency, Business Continuity

Pole remediation & Asset Management: 760 k - GIS, SCADA, Land Surveying, GPS, Asset Management, structural construction

Desal Project: 2.3 M - Potable Water, Fuel Cells, SCADA, Automation

SCADA Project: 2.63 M - Water, Gas, Power, Automation(PLC), Asset Management

LOTO Project: 430 k - Safety Management, Asset Management

Vulnerability study assessment Project (VSAT software): 520 k - Risk Management, Asset Management

Water Treatment of Wrigley Reservoir: 1.62 M - Potable Water, Automation, Asset Management, GIS, Project Management

Middle Ranch Reservoir Project: 774 k - Surface Water, Automation, Land Surveying, GPS, GIS and Modelling

Automation Project: 2.31 M - Automation, Asset Management, Fuel Cells, Hydrogen

Gas pipeline project: 1.6 M - Piping construction, Surveying, Pipeline integrity, Pipeline design, Gas Transportation Validation

### **Socal Gas / DTS ~ 9 months**

Aliso Canyon Project: 1.8 M – Industrial Water

Placentia Project: 525 k - Industrial Water

Gas Pipeline Project: 2.5 M – PSEP Piping construction (Valencia, Orange County)

Private Project (Applied LNG): 5.5 M – LNG Plant commissioning, Cryogenics (LNG), Pipeline Design, Pipeline Integrity, Land Surveying, Plant Process Design, Validation of P&IDs

### **Socal Gas / Alisto ~ 1 Year**

WT Project: 1.37 M – Industrial Water, Piping construction, surveying, piping design

Playa Del Rey Project: 790 k – Plant Modernisation, pipeline integrity, pipeline design

### **Processes Unlimited International Inc. (ProU / Stantec) ~ 1 Year**

Belridge water softening Project: 794 k – Waste Water

Process Optimisation (Chevron): 560 k – Automation, Cryogenics, Refinery, Ethylene-Amine Plant Cryo-Process, Surveying, Gas pipeline construction

Process Optimisation (Aera Energy): 790 k – Automation, pipeline integrity, pipeline design

### **Excel Green Technology (EGT) – 6 months**

New York city water softening Project: 2.46 M – Waste Water

### **General Electric (GE) – 2 Years**

SEGR water supply Project: 2.58 M – Waste Water, Gas Turbine

EBC Project: 14.1 M – Turbine Coatings, Materials, Supply Chain, Ceramic Matrix Composites (CMC), Environmental Barrier Coating (EBC) / Thermal Barrier Coating (TBC)

### **Strategic International Concepts (SIC) – 4 Years**

EOR injection water Project: 2.59 M – Waste Water, Storm, Effluent Water

Chemical Process Optimization: 559 k – Automation, Ethanol plant

Gas pipeline project: 556 k - Piping construction, cryogenics, pipeline integrity, pipeline design

### **Oil and Natural Gas Corporation Limited (ONGC), India – 5 Years**

Insitu combustion Effluent Treatment Plant (ETP): 357 k – Effluent Water

Insitu Combustion Project: 1.63 M – Enhanced Oil recovery (EOR), Automation

Oil & Gas pipeline project: 257 k - Piping construction, pipeline integrity, pipeline design

**Software used:** ANSYS, Procore, Maximo, HYSYS, NX Unigraphics, PRO II, CFD-ACE+, SAP, Comsol, Fluent, ArcGIS, ArcMap, ASPEN Plus, AutoCAD, Microsoft BI, Rhios, Visio, Daqview, LabVIEW, Biowin, GPS-X, EFOR, WatPro, Orchestrator, Infowater, FARO, Microsoft Office, MS Project, ChemCAD, Primavera P6, Excel, PowerPoint, Word, Solidworks, Catia, Wonderware.