

# BESST Engineering Pty Ltd

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01/12/2018





# Who we are

- SINCE 1981, WE HAVE WORKED AS ARCHITECTS OF GRID-CONNECTED AND OFF-GRID POWER STATIONS, PROVIDING OUR CLIENTS WITH A STEADY AND RELIABLE SYSTEM THAT IS QUICK TO DEPLOY AND EASY TO OPERATE.
- BESST WAS FOUNDED IN 2004 TO PROVIDE SMARTER CLEAN ENERGY SOLUTIONS FOR AUSTRALIAN BUSINESS. THE FOUNDING TEAM OF BESST ENGINEERING POSSESS OVER 50 YEARS OF EXPERIENCE DESIGNING AND DELIVERING COMMERCIAL AND UTILITY-SCALE ENERGY SERVICES THROUGHOUT AUSTRALIA.
- OUR AUSTRALIAN BUSINESS REGISTRATION:  
ABN - 46 380 749 210  
ACN - 107 691 565.

# What we do

AT BESST, WE PROVIDE POWER STATION SOLUTIONS TO A WIDE RANGE OF INDUSTRIES, INCLUDING COMMERCIAL, INDUSTRIAL, MINING, OIL, AND GAS, AS WELL AS THOSE IN OFF-GRID COMMUNITIES AND OFF-SHORE ISLANDS AS ARCHITECTS OF POWER GENERATION SYSTEMS, WE OFFER A RANGE OF SOLUTIONS THAT SUIT THE UNIQUE NEEDS OF OUR CLIENTS:

- ❖ **GRID-CONNECTED MINI POWER STATIONS**
- ❖ **STANDALONE MINI POWER STATIONS**
- ❖ **MINI POWER STATIONS FOR MICROGRIDS**

OVER THE YEARS, WE'VE HAD THE OPPORTUNITY TO WORK WITH BOTH DOMESTIC AND MULTINATIONAL CLIENTS IN A DIVERSE ARRAY OF INDUSTRIES, DELIVERING POWER GENERATION SOLUTIONS THAT PROVIDE UNPARALLELED RELIABILITY, QUALITY OF POWER, AND EFFICIENCY. WE HAVE A WEALTH OF EXPERIENCE CREATING INNOVATIVE SOLUTIONS FOR THE FOLLOWING APPLICATIONS AND MARKETS:

- ❖ **MINING**
- ❖ **OIL AND GAS**
- ❖ **COMMERCIAL**
- ❖ **INDUSTRIAL**
- ❖ **LOCAL GOVERNMENT**
- ❖ **MISSION CRITICAL FACILITIES**



## Our Management team



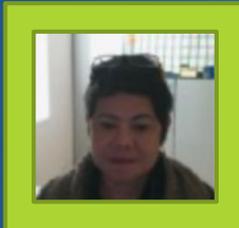
David Batterham

Director



Subroto Karmokar

General Manager



Lina Batterham

Admin & HR Manager



Nancy Batterham

Sales Manager



# David resume

<u>YEARS OF EXPERIENCE:</u>	<b>30 + YEARS</b>
<u>PROFESSIONAL:</u>	<ul style="list-style-type: none"><li>* REGISTERED PROFESSIONAL ENGINEER QUEENSLAND - RPEQ ELECT 7828</li></ul>
<u>MEMBERSHIPS</u>	<ul style="list-style-type: none"><li>* CERTIFIED PROFIBUS ENGINEER</li><li>* MEMBER, INTERNATIONAL COUNCIL ON LARGE ELECTRIC SYSTEMS (CIGRE)</li><li>* SENIOR MEMBER, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)</li></ul>
<u>TRAININGS:</u>	<ul style="list-style-type: none"><li>* ADVANCED DIPLOMA OF ENGINEERING – EXPLOSION PROTECTION (PARTIAL)<ul style="list-style-type: none"><li>- HAZARDOUS AREA CLASSIFICATION AND DESIGN</li><li>- ELECTRICAL EQUIPMENT IN HAZARDOUS AREAS</li></ul></li><li>* ARC FLASH HAZARD PREVENTION AND RISK MITIGATION, 2015</li><li>* COURSEWORK, GONZAGA UNIVERSITY, SPOKANE WA, USA<ul style="list-style-type: none"><li>- SYSTEM AUTOMATION SMART GRID</li><li>- UNDERGROUND DESIGN HV TRANSMISSION</li><li>- HV SUBSTATION DESIGN</li></ul></li><li>* ETAP POWER SYSTEM MODELLING, 2011</li><li>* CERTIFIED PROFIBUS ENGINEER AND INSTALLER, PROFIBUS ASSOCIATION OF AUSTRALIA</li></ul>
<u>ROLE:</u>	<ul style="list-style-type: none"><li>* STEERING THE BUSINESS OF COMPANY</li><li>* ELECTRICAL DESIGN &amp; SITE WORK MANAGEMENT</li><li>* DRIVING QUALITY MANAGEMENT PLAN &amp; INITIATIVES</li></ul>



# Subroto resume

YEARS OF EXPERIENCE:

24 + YEARS

QUALIFICATION:

- \* ENGINEERING DEGREE HOLDER IN ELECTRONIC INSTRUMENTATION
- \* GREEN BUILDING DESIGN CERTIFIED
- \* ON-GRID & OFF-GRID SOLAR PV SYSTEM DESIGN CERTIFIED
- \* WINDOWS NETWORK ADMIN CERTIFIED
- \* SAP SALES MANAGEMENT MODULE CERTIFIED

CORE SKILLS:

- \* PLC SYSTEM, MMI/SCADA , DRIVES, LOW VOLTAGE SWITCHGEAR COMPONENTS
- \* MOTOR MANAGEMENT DEVICES, VARIABLE SPEED DRIVES & SOFT STARTERS, ENERGY MANAGEMENT, MICRO-GRID SOLUTIONS
- \* SENSORS & FIELD INSTRUMENTS FOR FLOW, PRESSURE, DENSITY, TEMPERATURE & LEVEL ETC. WITH SPECIALISATION IN RADAR, ULTRASONIC, CORIOLIS & PD TECHNOLOGIES
- \* CONTROL VALVES, SMART POSITIONERS, FIELD BUS & CONTROL NETWORKS
- \* ANALYSERS, SMART TRANSMITTERS SET-UP, CALIBRATION AND TROUBLE- SHOOTING

ROLE:

- \* RESPONSIBLE FOR BUSINESS DEVELOPMENT & SALES ACTIVITIES
- \* IDENTIFYING MARKET GAPS & COMPETITION ANALYSIS
- \* MARKETING & EMAIL CAMPAIGN ACTIVITIES
- \* ARCHITECTURE & SOLUTION DEVELOPMENT
- \* VENDOR SELECTION, DEVELOPMENT & CONTRACTOR MANAGEMENT
- \* CONTRACT AND SUPPLY TENDERING & PROPOSAL MANAGEMENT

## Few combined project experience

- DETAIL ELECTRICAL DESIGN - QUEENSLAND CURTIS ISLAND LNG
- DETAIL ELECTRICAL DESIGN - PNG LNG PLANT PROJECT
- ELECTRICAL TESTING SERVICES FOR CAP/HEAT TESTING - WEST KIMBERLEY POWER PROJECT
- 3.3 & 11KV SWITCHBOARDS DESIGN SERVICES: GALLERY OF MODERN ART SOUTH BANK
- DESIGN SERVICES FOR THE 3.3KV BLACK START GENERATOR - CONDAMINE, QLD
- ELECTRICAL ENGINEERING SITE SERVICES FOR A NEW LNG PLANT: - MAITLAND, W.A
- ELECTRICAL ENGINEERING DESIGN AND ESTIMATING (40 MW):- ENERTRADE , MORANBAH
- PROVISION OF ELECTRICAL ENGINEERING DESIGN SERVICES 1820KW X2, 6.6KV:, GOVE WEST
- DIESEL AND GAS GENERATORS ELECTRICAL DESIGN SERVICES: WEST KIMBERLEY
- DESIGN OF COMPLETE MV AND LV ELECTRICAL SYSTEM - KING ISLAND TITANIUM PROJECT
- 7X 2MVA, 11KV, DESIGN SERVICES, FULLY AUTOMATIC, UNATTENDED, ISLAND PRIME POWER STATION WITH SECONDARY IMPORT / EXPORT TO GRID: ANDOOM POWER STATION , WEIPA
- SUPPLY OF 11KV MAIN SWITCHBOARD - CAPRAL ALUMINIUM FACTORY , BUNDAMBA
- MV / LV SWITCHGEAR, CUBIC LICENSEE ASSEMBLER, RA/CITECT INTEGRATOR - UAE
- ABU DHABI SEWERAGE PROJECTS COMMITTEE: SUB-CONTRACT HUNTER WATERTECH, UAE
- 4 X 1500KW 415V DESIGN & SUPPLY OF LV/MV SYSTEM- MECKHAIRIZ ABU DHABI POLICE
- DESIGN & SUPPLY OF THE LV, CONTROL SYSTEMS, PUMP STARTERS, MV SWITCHBOARD – TARIM WATER SUPPLY- UAE - WORLD BANK PROJECT

## Few combined project experience

- OIL PIPELINE & TANK FARM AUTOMATION SYSTEM – ADCO, UAE
- SEWAGE FILTRATION CONTROL SYSTEM - ABU DHABI MUNICIPALITY, UAE
- SCADA SYSTEM FOR OFFSHORE PLATFORM - ELF PETROLEUM, QATAR
- PLC CONTROL PANELS FOR CHEMICAL DOSING - WATER AND ELECTRICITY DEPT., UAE
- PLC SYSTEM UPGRADE FOR GENERATOR PANEL – ADCO, UAE
- PLC SYSTEM FOR CONTROL BUILDING HVAC CONTROL - GASCO, UAE
- REFINERY UPGRADE OF GAS AND FIRE MONITORING SYSTEM - ADNOC, UAE
- REFINERY EXPANDER CONTROL SYSTEM UPGRADE, - GASCO, UAE
- SUBSTATION MONITORING SYSTEM - ADNOC, UAE
- POWER PLANT FUEL PLC-5 METERING SYSTEM UPGRADE - EMIRATES CMS POWER CO., UAE
- LUBE PLANT CONTROL SYSTEM UPGRADE - ADNOC-DISTRIBUTION CO., UAE
- WATER DISTRIBUTION SCADA AND TELEMETRY SYSTEM PROJECT - AL AIN MUNICIPALITY, UAE
- MULTI-PRODUCT OIL TANK FARM AND PIPELINE AUTOMATION – ADNOC-FOD, UAE
- OIL TERMINAL AUTOMATION – GAIL, INDIA
- RETAIL OUTLET AUTOMATION – IOCL, INDIA
- RAILWAY LOCOMOTIVE FUELLING AUTOMATION, WESTERN RAILWAY, INDIA

# Some Major Customers



Some of our overseas partners:

A collection of three logos for overseas partners, each enclosed in a white rectangular box. The top logo is for Manitoba Hydro International, featuring a blue globe icon and the text 'Manitoba HYDRO INTERNATIONAL'. The middle logo is for L&T-S&L, featuring a blue lightning bolt icon and the text 'L&T-S&L'. The bottom logo is for ESTUDIOS ELECTRICOS, featuring the text 'ESTUDIOS ELECTRICOS' in white and orange, and a white icon of a lightning bolt with an upward-pointing arrow.



# THANK YOU !

## **Batterham's Electrical Switchboard Services & Trading Pty Ltd (BESST)**

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