



**BSD**

**Building Services Design**  
Consulting Engineers

[www.buildingservicesdesign.co.uk](http://www.buildingservicesdesign.co.uk)

# Client portfolio

This is a selection of our valued customers

Alcatel Submarine Networks Ltd	Higgins Group Plc	Ramada Hotels
Anglia Polytechnic University	Hills Electrical Plc	RG Group
Alpha Healthcare	HMV	ROK Llewellyn
ATP Group	Homerton College, Cambridge	Sainsbury's Supermarkets Ltd
Benchmark Properties	Huntingdon District Council	Sandwell Hospitals NHS Trust
Bernard Ward Ltd	Huon Corporation	Sindall Construction Ltd
Birmingham City NHS Trust	Ibex Interiors	Soho Housing Association
Bishop Stopford School, Kettering	Industrial Dwellings Society	South Yorkshire Police
Breathe Interiors	Kings Lynn Borough Council	Southend Borough Council
British Telecom Plc	Laing Homes Plc	Templeman Associates
Bromley Housing Association	Leicester County Council	The College of West Anglia
Calford Seaden Partnership	Leicester Housing Association	Turner Broadcasting System Europe
Cambridge Arts & Science College	Lincoln College	Turner Townsend
Cambridgeshire County Council	Lloyds Registry of Shipping	University of Cambridge
Capvest Bank (USA)	Longford Property Development	Varity Perkins Engines
Catholic Diocese of Northamptonshire	Luton Borough Council	Wandsworth Borough Council
Chemence Ltd	Martindales Architects	Warner Bros.
CNN	Mashreq Bank (Dubai)	Warwickshire County Council
College of Lincoln	Mile End New Testament Church	Wimpey Homes
Columbia Group	Morgan Lovell	Wolverhampton Grand Theatre
Confederation of British Industry	Music Choice Europe Ltd	
Corby Borough Council	NAP Sherwin	
Corporation of London	Norfolk and Suffolk NHS Trust	
Coventry City Council	Norfolk County Council	
Cranfield University	Norfolk Property Services	
DaimlerChrysler UK Ltd	North Lincolnshire County Council	
Denton Associates	Northampton General Hospitals NHS Trust	
DHL International UK Ltd	Northampton Healthcare NHS Trust	
Diocese of Peterborough	Northamptonshire County Council	
East Thames Housing Association	Norwich School of Art and Design	
easyGroup Plc	One 2 One	
EC Harris	Open University	
EFG Private Bank	PB Leisure	
Fenland District Council	Peterborough City Council	
Freshfields Solicitors	Peterborough Regional College	
Gardner Cann Partnership	Peterborough Software	
General Healthcare Group	Pictet Bank (France)	
Gleesons	Portess & Richardson	
Gotch Saunders and Surridge	Prince William School, Oundle	

## Contact us by any of the following methods:

London Office  
87A Worship Street  
London  
EC2A 2BE  
T: 020 7377 9007  
F: 020 7377 9111  
E: london@buildingservicesdesign.co.uk

Corby Office  
1 Adelaide House  
Corbygate Business Park  
Priors Haw Road  
Corby, Northamptonshire  
NN17 5JG  
T: 01536 403304  
F: 01536 403838  
E: corby@buildingservicesdesign.co.uk

W: [www.buildingservicesdesign.co.uk](http://www.buildingservicesdesign.co.uk)

Front cover illustration:  
Tower 42, London

Back cover illustration:  
Lloyd's Registry of Shipping, London



# Building a reputation in a competitive world

We have strategically located offices in Central London and the Midlands to enable us to service a wide range of client needs that has extended from traditional mechanical and electrical consultancy to full project management roles.

Our creative approach to M&E services, supported by long-term relationships with our customers, has been the catalyst for the growth of our client base (the opposite page is a selection of our customers). From the smallest independent to a major nationwide retailer or a global corporation, all of our clients receive a tailored and proactive service.

You can benefit from our project management system.

- We carefully select skilled teams to meet specific project objectives
- Provide realistic planning and continuous monitoring of costs
- Conduct regular technical reviews to ensure that projects are always on track
- Regulated by a Quality Assurance System that is accredited to ISO9001, we strive to achieve the optimum in quality control
- Direct liaison with our clients is at the most senior level.

You can read more about the many services we provide at the end of this brochure. We invest considerable resources to recruit and retain the best engineers and support staff in the business to work with you - not for you - to identify objectives and deliver a solution that meets your precise requirements. It is important to us that our people, as well as our clients, enjoy working on a BSD project.

The examples shown in this brochure can only give a brief flavour of the projects we undertake and the advantages we can offer to every type of organization, across many different sectors.

To find out how BSD can transform your next project on time, on strategy and on budget, please contact us at either of our offices or visit our website at [www.buildingservicesdesign.co.uk](http://www.buildingservicesdesign.co.uk)

“ In an increasingly competitive environment, Building Services Design (BSD) has built a reputation for designing high quality, cost-effective buildings. At the heart of BSD’s success is a flexible approach to business that is based on partnership and understanding. ”

## Specialists in:

Mechanical engineering

Public health engineering

Electrical engineering

Building regulations

Information technology

Life safety and fire suppression engineering

Thermal Modelling



# Projects

> Arts and leisure

> Media

Housing  
and community

Offices  
and fit-out

Retail

Banks

Healthcare

Local  
government  
and education



## Turner Broadcasting, London

£5,000,000 scheme

Fast-track office fit-out for Turner Broadcasting, CNN & Cartoon Network to high specification. Included gas turbine back up power system



## CNN, London

£1,500,000 scheme

TV studio in London bureau. Opened by HM the Queen

## Warner Bros., London

£1,700,000 scheme

New staff restaurant, refurbished floors and new board room for UK headquarters



## Wolverhampton Grand Theatre

£7,300,000 scheme

Full mechanical and electrical design of this lottery funded project. Refurbishment of 1890 Victorian theatre including air conditioned 1200 seat auditorium, feature and theatrical lighting



## Ramada Hotel, Docklands

£9,500,000 scheme

New luxury hotel and suite complex complete with full air conditioning and extensive feature lighting

## Mechanical engineering design and management

- Heating
- Ventilation
- Air conditioning and refrigeration
- Hot and cold water
- Compressed air
- Fuel distribution
- Steam and condensate
- Medical and industrial gases
- Energy conservation schemes
- Pneumatic conveyor systems

## Public health engineering design and management

- Plumbing
- Waste and surface water
- Drainage
- Sewage disposal
- Refuse disposal
- Swimming pool systems

BSD have worked with us on a number of projects and we have found them to be diligent at all times. They have kept our best interests at the forefront of each project and delivered first class solutions in both M&E and project management.

*Simon Green,  
Director of Facilities,  
Warner Bros.  
Entertainment UK*

- > Mechanical engineering
- > Public health engineering

Electrical engineering

Building regulations

Information technology

Life safety and fire suppression engineering

Thermal Modelling

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and community**

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## DaimlerChrysler, Milton Keynes

New reception block and refurbished corporate headquarters. Full project management and design team provision



## Salters City Foyer, London

£1,900,000 scheme

Refurbishment of listed building in the City of London to provide accommodation and training facilities for young job seekers. Responsible for full M&E services design and project management. The building was opened in November 1997 by HM the Queen



## Lloyds Registry of Shipping, London

£1,200,000 scheme

New reception and office lighting upgrades for landmark London building



## Long Acre, London

£6,700,000 scheme

Four refurbished office floors with VAV air conditioning for Benchmark Properties



## Redbridge Foyer, Essex

£3,500,000 scheme

New custom built accommodation for young people and recovering drug users in Ilford, Essex

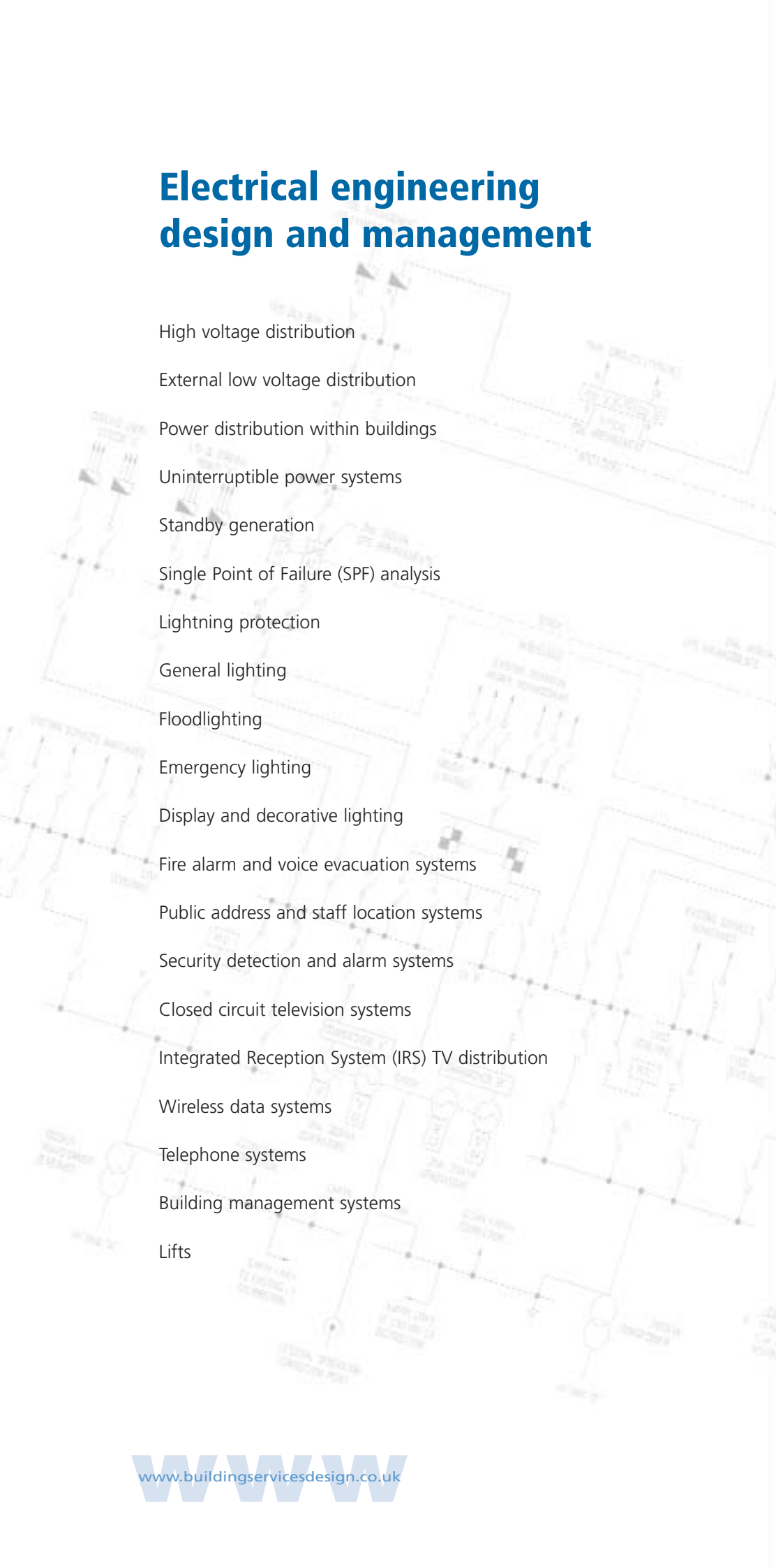


## Bridge Place, Dartford

£11,000,000 scheme

New corporate headquarters for Laing O'Rourke Plc

# Electrical engineering design and management

- 
- High voltage distribution
  - External low voltage distribution
  - Power distribution within buildings
  - Uninterruptible power systems
  - Standby generation
  - Single Point of Failure (SPF) analysis
  - Lightning protection
  - General lighting
  - Floodlighting
  - Emergency lighting
  - Display and decorative lighting
  - Fire alarm and voice evacuation systems
  - Public address and staff location systems
  - Security detection and alarm systems
  - Closed circuit television systems
  - Integrated Reception System (IRS) TV distribution
  - Wireless data systems
  - Telephone systems
  - Building management systems
  - Lifts

BSD have recently managed the construction of a new airbag and inflammable goods store in our warehouse. They are also currently the project managers for our new reception building and are helping to plan a refurbishment of existing office accommodation at our UK Headquarters at Milton Keynes. They have embraced our company culture and provided valuable support to our in-house team. We have found their approach to be professional, responsive and in tune with the needs of our business.

*Grayam Hall,  
Building Services Manager  
DaimlerChrysler (UK) Ltd*

Mechanical engineering  
Public health engineering

## > Electrical engineering

Building regulations  
Information technology  
Life safety and fire suppression engineering

Thermal Modelling

# Projects

Arts and leisure

Media

Housing and community

Offices and fit-out

> Retail

> Banks

Healthcare

Local government and education

## Sainsbury's Supermarkets Ltd

£4-8m schemes

Over 30 new and refurbished stores throughout the UK



## Pictet Bank, (Tower 42, levels 36 and 37) London

£1,200,000 scheme

Full M&E fit-out design, including IT and comms room



## EFG Private Bank, Berkeley Square, London

£1,700,000 scheme

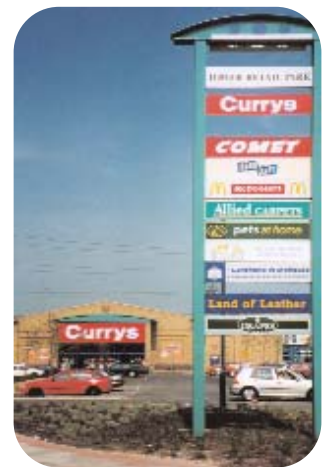
Full M&E design for refurbishment of listed building, including IT and comms room



## Capvest Bank, Pall Mall, London

£1,500,000 scheme

Fit-out including ventilation and air conditioning for the gym, dealing room and comms room



## Tower Retail Park, Crayford

£6,000,000 scheme

Full M&E design service to retail park of 18 buildings, including 3 HV electrical supplies

## Building regulations approved document L2 calculations

Building carbon efficiency calculations as part of building regulations submission

## Information technology design and management

Structured cabling  
Voice and data systems  
Wide area networking  
Local area networking  
Wireless networking

## Life safety and fire suppression engineering design

Hydrant systems  
Sprinkler systems  
Wet and dry risers  
Hose reels  
Smoke ventilation  
Gas and water mist fire suppression systems

## Thermal Modelling

Heat loss and heat gain calculations  
Building simulations and graphical representations  
Building shading calculations  
Natural or forced ventilation modelling

BSD have provided mechanical and electrical consultancy to the University over a number of years and have delivered a customer focused, responsive and diligent service at all times.

*I.J. Brown,  
Estate Management,  
Cambridge University,  
UK*

- Mechanical engineering
- Public health engineering
- Electrical engineering
- > Building regulations
- > Information technology
- > Life safety and fire suppression engineering
- > Thermal Modelling

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**"Classroom of the Future"**  
**Hobart High School, Norwich**

£400,000 scheme

New build class room block and  
remodelling of class rooms within  
existing school



**The College of West Anglia**

£6,000,000 scheme

Full mechanical and electrical  
design to include refurbishment  
of the lower administration and  
teaching block at Kings Lynn,  
Norfolk



**Cranfield University**

£600,000 scheme

New student catering  
facility



**Peterborough  
District Hospital,  
Cambridgeshire**

£1,200,000  
scheme

New endoscopy,  
minor operations  
and patient  
accommodation  
block for  
Peterborough  
Hospital NHS Trust.  
Full comfort cooling  
and emergency back  
up power provision.



**Bishop Stopford School, Kettering**

£900,000 scheme

M&E design of new build for 5 new class  
rooms, drama studies block and changing  
facilities



**Cranfield University**

£2,900,000 scheme

New build Ph.D  
department offices and  
lecture rooms

## Condition surveys

On-site investigations of existing services are carried out in great detail and accuracy so that condition reports, record drawings, life cycle and budget cost estimates are thoroughly prepared.

## Feasibility studies

We work closely with our clients to turn the outline brief into preliminary engineering schemes and to co-ordinate information with other team members and specialists to form the concept reports, drawings and budget cost estimates.

## Value engineering

We undertake technical, environmental and financial analysis of alternative M&E schemes to ensure that the proposed solution is the most appropriate and best value for money.

## Outline design

We develop the feasibility studies and define preferred engineering options. Preliminary scheme layouts, M&E principal routes and builderswork are covered.

## Scheme design

We always submit a scheme design report to confirm our proposals prior to implementation. Single line layout and final schematic arrangement drawings are issued with detailed information on builderswork.

## Detail design

Defined drawings and specifications are produced at this stage, features include enhanced scale sections, elevations and equipment details. The high level of detailed information is given at this point to reduce the risk of misinterpretation. We also present an accurate M&E pre-tender estimate for incorporation into the project cost plan.

## Planning and project management

Covering the planning and monitoring of building services design and construction, our experienced and skilled engineers will lead or assist the management of the design and construction processes. We supply resident staff to monitor progress on-site.

## Coordination drawings

Fully detailed three-dimensional drawings are created by our teams. We ensure our works are coordinated with other specialists including the areas of building elements and structural frame.

## Construction cost management

We prepare tender documents, produce and monitor M&E cost plans and the overall value. We also give specialist financial assistance to quantity surveyors, architects and our clients.

## Commissioning and handover

We plan and monitor the commissioning and handover of the project, incorporating the delivery of detailed technical audits, site inspections, manuals and drawings.

## Facilities management

Facilities management is an ongoing service. We will advise our clients on the future life cycle cost and technical requirements of proposed schemes, prepare maintenance contracts and also monitor the progress of maintenance. We can also produce maintenance specifications and procure contracts on behalf of clients.

## Design and build

Provision of accurate sketch design information in order to assist with M&E estimating for bidding purposes. Detail design service with the option of full working drawing production.

Find out how BSD can transform your next project. Contact us at either of our offices or visit our website at [www.buildingservicesdesign.co.uk](http://www.buildingservicesdesign.co.uk)



**London Office**

87A Worship Street, London, EC2A 2BE  
Telephone: 020 7377 9007  
Fax: 020 7377 9111  
E-mail: [london@buildingservicesdesign.co.uk](mailto:london@buildingservicesdesign.co.uk)  
Website: [www.buildingservicesdesign.co.uk](http://www.buildingservicesdesign.co.uk)

**Corby Office**

1 Brisbane House, Corbygate Business Park  
Priors Haw Road, Corby  
Northamptonshire NN17 5JG  
Telephone: 01536 403304  
Fax: 01536 403838  
E-mail: [corby@buildingservicesdesign.co.uk](mailto:corby@buildingservicesdesign.co.uk)  
Website: [www.buildingservicesdesign.co.uk](http://www.buildingservicesdesign.co.uk)



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