

# CHP Biomass Plant



 Nuclear / Energy

 Widnes

 110 million

  
CASE STUDY

# CHP Biomass Plant

<b>Owner</b>	UK Green Investment Bank, Stobart, BWSC
<b>Sector</b>	Nuclear / Energy
<b>Project Value</b>	£110 million
<b>Principle Contractor</b>	Burmeister & Wain Scandinavian Contractor (BWSC)
<b>Client</b>	Stobart Infrastructure
<b>Contract Type</b>	FIDIC

## Project Overview

The Widnes Biomass Plant is a combined 20.2 MW electric, 7.8 MW thermal power plant. The new CHP Plant is to generate power from waste wood, with the aim of providing renewable electricity to power more than 35,000 homes per year.

## Services Provided

- Attendance at client & internal meetings
- Regular site visits
- Quantity take offs
- Procurement schedules
- Contract programme support
- Logistic phasing plans
- Programme narrative
- Weekly progress reporting
- Integration into M&E master programme
- Facilitating 3rd party interfaces/sub-contractors
- Managed overall site logistics
- Delay analysis / Dispute resolution

## How we made a difference

Plan Ahead provided robust 1st principles planning to support an evolving design and fast paced civil infrastructure contract. Plan Ahead also provided commercial programme management to re-establish a baseline programme to align with the agreed FIDIC contracted dates. Plan Ahead maintained a detailed change register of programme impacts as the main contractors design and requirements evolved during the project. Plan Ahead prepared detailed phased plans to help integrate other following trades.



# PremiAir Lounge



Buildings & Frames



Manchester



4 million

Plan  
ahead  
CASE STUDY



# PremiAir Lounge

<b>Owner</b>	Manchester Airport Group (MAG)
<b>Sector</b>	Building & Frames
<b>Project Value</b>	£4 million
<b>Principle Contractor</b>	MCC Construction
<b>Client</b>	MCC Construction
<b>Contract Type</b>	NEC3

## Project Overview

This project was part of the Manchester Airport Transformation Programme, the first of its kind in the UK. The construction of a luxury terminal, providing passengers with a private jet experience. The terminal included valet parking, a hospitality area, a faster baggage processing system and private transfers to aircrafts.

## Services Provided

- Attendance at client & internal meetings
- Regular site visits
- Quantity take offs
- Procurement schedules
- Design programme development
- Programme narrative
- QSRA
- Monthly progress reports
- Programme validation
- Change control
- Cl32 Programme updates
- Cl62 Programme impact programmes
- Programme management of scope creep

## How we made a difference

Plan Ahead were commissioned to assist a local contractor, to provide programme management and construction planning support to deliver the fast track project, inline with the MAG management team requirements.

Plan Ahead gave the contractor and client clarity over an accurate completion date so they could plan the earliest launch date for the new service in the purpose made facility.




# 2014 Commonwealth Games



 Special Events

 Glasgow

 500+ million

# 2014 Commonwealth Games Delivery

<b>Owner</b>	Glasgow 2014
<b>Sector</b>	Special Events
<b>Project Value</b>	£500+ million
<b>Principle Contractor</b>	Glasgow 2014
<b>Client</b>	Glasgow 2014
<b>Contract Type</b>	Variety to suit schemes

## Project Overview

This project involved the 2+ years preparation works to successfully deliver the Commonwealth Games for a 2 week period in 2014. This was the largest multi-sport event ever held in Scotland with around 5,000 athletes from 71 different nations competing.

To ensure that the 2 week event went smoothly, over 100 individual specialist elements had to be prepared over the 2+ years prior to the event, including accommodation, transport, clothing, security, etc .

## Services Provided

- A detailed audit of the original master programme for all the key disciplines / supply chains
- Plan Ahead re-built the overall programmes for all 115 technical disciplines
- Detailed 1st principles planning supported by discipline expert leads
- Weekly progress reporting
- Interface maintenance
- Designed and managed a complex discipline interface strategy

## How we made a difference

Plan Ahead provided expert programme management services to re-establish a robust master programme. Interface milestones and a supporting tracker were introduced along with activity count analysis. These simple but effective controls enabled the progress of each discipline to be monitored effectively, while early warning of their impacts to other disciplines could be easily tracked.

All this gave overall clarity, both at discipline and portfolio level, to enable the senior Glasgow 2014 team to make quick effective decisions. Such a relatively short delivery timeline for a one-off event was particularly challenging and required some innovative and unique approaches which Plan Ahead provided.






# Manchester Metrolink Ph3



 Rail & Light Rail

 Manchester

 900+ million

# Manchester Metrolink Ph3

<b>Owner</b>	TfGM
<b>Sector</b>	Rail & Light Rail
<b>Project Value</b>	£900+ million
<b>Principle Contractor</b>	M-Pact Thales (MPT) Consortium
<b>Client</b>	M-Pact Thales (MPT) Consortium
<b>Contract Type</b>	FIDIC

## Project Overview

Phase 3 project, secured in 2008 by a consortium formed between Laing O'Rourke, VolkerRail and Thales, was to treble the size of the Manchester Tram system. The design, construct and maintenance contract was to deliver the network expansion of Manchester Metrolink, comprising lines to Media City, South Manchester, East Manchester and Oldham Rochdale as well as a new depot facility at Trafford Bar.

Further extensions were also awarded to extend the South Manchester line to East Didsbury and the East Manchester line to Ashton, together with a new line to Manchester Airport and town centre routes for Rochdale and Oldham.

## Services Provided

- Consortium leadership of planning / project controls
- Strategic management of stakeholder / 3rd party interfaces
- Monthly progress reporting
- Project dashboarding
- Change control
- Time chainage
- Weekly programme updates
- Resource & production output validation
- Earned value management of labour and plant
- Forensic analysis for EOT / programme thickening

## How we made a difference

Plan Ahead provided resources with extensive light rail construction experience to deliver expert programme management and detailed 1st principles construction planning. Plan Ahead's extensive experience in this sector enabled the overall project programmes WBS/phasing to be effectively structured to support the construction phases. During the lifecycle of the projects, as construction phases changed due to impacts such as utilities, traffic management and stakeholder interfaces, the programme was simply re-sequenced instead of re-building the programme.





# Ince Glass Refinery, Bottling and Warehouse



Manuf. Chem. & Pharm.



Cheshire



200+ million

Plan  
ahead  
CASE STUDY

# Ince Glass Refinery, Bottling and Warehouse

<b>Owner</b>	Encirc
<b>Sector</b>	Manufacturing, Chemicals & Pharmaceuticals
<b>Project Value</b>	£200+ million
<b>Principle Contractor</b>	Encirc
<b>Client</b>	Encirc
<b>Contract Type</b>	Internal Delivery

## Project Overview

Quinn Glass in-house team constructed a production and distribution facility on a 205-acre site at Ince in North West England, previously the site of Ince B power station. The site provides a comprehensive glass production, filling, storage and distribution service for the drinks industry. One of only a handful of plants worldwide where bottles can be manufactured and filled on a single site, it features one of the largest automated warehouses in Europe, capable of handling 282,000 pallets of filled and unfilled glass containers.

## Services Provided

- Development of the master programme
- Attendance at client & internal meetings
- Regular site visits
- Quantity take offs
- Procurement schedules
- Design programme development
- Programme narrative
- Monthly progress reporting
- Programme validation
- Change control
- Weekly programmes
- Develop/manage detailed fragnet programme for key subcontractors

## How we made a difference

Quinn Glass delivered this project through a small internal team, which Plan Ahead supported. Plan Ahead brought a can-do attitude to the project to rise to any challenges that impacted the overall master plan timeline. The 14 month fast pace project often required multiple what-if programme scenarios being developed, to ensure we could constantly recover time lost due to unforeseen site issues or design changes. This also involved extensive interfacing of large subcontract packages, including logistical management of the site to ensure all productions achieved their planned outputs.



# Brentford Stadium



Stadium / Sports



London



£ 71 million

Plan  
ahead  
CASE STUDY



# Brentford Stadium

<b>Owner</b>	EcoWorld London
<b>Sector</b>	Stadium / Sports
<b>Project Value</b>	£71 million
<b>Principle Contractor</b>	Buckingham Group Contracting
<b>Client</b>	Buckingham Group Contracting
<b>Contract Type</b>	JCT

## Project Overview

The construction of a 17,250 seater stadium which forms the principal elements of the Lionel Road South masterplan, which includes the creation of a new 'Stadium Campus' bringing together sports, educational, residential and commercial uses. The principal user of the facility is Brentford Football Club, but it is also utilised by a range of other users. The stadium has provision for circa 3,000 premium seats, to strengthen an important revenue stream for the club all comprising an area of 27,000m<sup>2</sup>.

## Services Provided

- Develop contract programme
- Change control
- Reporting change
- Monthly progress reporting
- Subcontractor programme management
- Detailed planning for the construction of the new steel and pre-cast concrete stadium

## How we made a difference

Plan Ahead created a delivery programme that was effective in supporting the overall construction and contract reporting, whilst only requiring part-time planning support to be maintained. Our close working relationships with subcontractors, gave us a detailed understanding of the project interfaces to enable the programme to be used effectively.



# A483/A489 Newtown Bypass



 Civil Infrastructure

 Powys

 £ 95 million

 Plan  
ahead  
CASE STUDY

# A483/A489 Newtown Bypass

<b>Owner</b>	Welsh Government
<b>Sector</b>	Civil Infrastructure
<b>Project Value</b>	£95 million
<b>Principle Contractor</b>	Alun Griffiths Contractors
<b>Client</b>	Alun Griffiths Contractors
<b>Contract Type</b>	NEC3

## Project Overview

The design and build of the Newtown Bypass is intended to ease congestion along the A483 and A489 trunk roads that originally converged in the centre of Newtown. There was also an issue with 2 low railway bridges within Newtown which caused regular traffic problems. The bypass consists of 6.5km of a new wide single 2+1 carriageway, with 1km of new side roads, 5 new roundabouts, 11 retaining walls, 4 underpasses, 4 underbridges and 3 overbridges. In addition, extensive earthworks and ground improvement works were required.

## Services Provided

- Successful tender bid and live project support
- Site visits and regular client meetings
- Target cost programme support
- Tender submission layout
- Programme narratives
- Cl31 Programme
- Cl32 Programme updates
- Cl62 Impact programmes
- Extensive STATS planning and mitigation incl. management matrix
- Design programme management
- Resource loaded programmes
- Quantity take offs / outputs matrix
- Earthworks mass haul
- Tilos time chainage
- Extensive phasing plans

## How we made a difference

Plan Ahead provided key support during tender phase, development of target cost programme and during the live project. We developed a trusted working relationship with the project manager and the client planner to enable collaborative management of the contract programme. This ensured the project completed on time and with minimal programme impact due to the effective and proactive management of early warnings.





# Queensbridge House



Buildings & Frames



London



£ 65 million

Plan  
ahead  
CASE STUDY

# Queensbridge House

<b>Owner</b>	Westin Hotel Chain
<b>Sector</b>	Buildings & Frames
<b>Project Value</b>	£65 million
<b>Principle Contractor</b>	Vascroft
<b>Client</b>	Vascroft
<b>Contract Type</b>	JCT

## Project Overview

Located on the banks of the iconic River Thames, entailed the demolition and transformation of an existing office building into a new, ten-storey, 222 bedroomed, five-star hotel, including nine luxury apartments. The site was a combination of three plots of land which were separated by active roads in the centre of London, with a bridged section of the building crossing multiple lanes of vehicle traffic.

## Services Provided

- Develop contract programme
- Reporting change
- Monthly progress reporting
- Subcontractor programme management

## How we made a difference

Plan Ahead provided construction planning support for this inner city London development, which consisted of specific underground risks and constraints which the programme identified, addressed, and helped manage. We provided a cost effective solution for our client, through part time planning support, as the project had no allocated funding for a planning resource.

Plan Ahead helped integrate the complex M & E programme into the construction programme, providing accurate monthly progress reporting with co-ordinated meetings. Plan Ahead supported the project team with demonstrating the client programme delays.



# Plant Depot



Buildings & Frames



Hertfordshire



10 million

Plan  
ahead  
CASE STUDY



# Plant Depot

<b>Owner</b>	J Murphy & Sons
<b>Sector</b>	Buildings & Frames
<b>Project Value</b>	£10 million
<b>Principle Contractor</b>	J Murphy & Sons
<b>Client</b>	J Murphy & Sons
<b>Contract Type</b>	JCT

## Project Overview

The new Murphy world class plant and office depot brought together vehicle, plant maintenance and body work under one roof. Designed, managed, and built by Murphy operations, the facility was designed on a brownfield site and brought wider parts of the business together by enhancing existing offices and welfare facilities. The depot also supported the logistical need for more parking facilities, a commuter link, a greater working environment, as well as improved safety and control.

## Services Provided

- Attendance at client & internal meetings
- Regular site visits
- Quantity take offs
- Procurement schedules
- Outputs matrix
- Design programme management
- Contract programme management
- Logistic phasing plans
- Programme validation
- QSRA
- Weekly progress reporting
- Change control
- EoT support

## How we made a difference

We supported a unique project where the client was a different business unit of the same company. Plan Ahead's external support was able to provide an objective and transparent approach to the planning input to ensure a robust process of programme management was maintained. Additionally, with the skill sets within the business Plan Ahead were able to identify key time savings within the programme.

Our extensive experience in this sector enabled close liaison with third parties which helped meet live operations and target deadlines. We also supported end user integration / controlled relocation from the existing city centre premises.



# Preston to Blackpool Electrification



 Rail & Light Rail

 Blackpool

 £ 117 million

  
Plan  
ahead  
CASE STUDY

# Preston to Blackpool Electrification (incl Blockade)

<b>Owner</b>	Network Rail
<b>Sector</b>	Rail & Light Rail
<b>Project Value</b>	£117 million
<b>Principle Contractor</b>	VolkerRail (working with Atkins, J Murphy & Sons and Siemens)
<b>Client</b>	VolkerRail
<b>Contract Type</b>	Network Rail 10 JCT D&B 2016

## Project Overview

This project formed part of Network Rail's Great North Rail Project (GNRP) which will see improvements to the network across the north of England. The 17 mile route, which runs through Salwick, Kirkham & Wesham, Poulton-le-Fylde and Layton, underwent upgrade works, enabling the line to become electrified; paving the way for improved and more reliable train journeys.

The works included: remove and replace over 11km of track, install of over 1,100 O/H line structures and 200km of O/H cable, and installation of three footbridges. The teams also completed platform extension work at Blackpool North station as well as the construction of a third platform and step free access at Kirkham & Wesham station.

## Services Provided

- Attendance at client & internal meetings
- Regular site visits
- Procurement schedules
- STATS scheduling
- Resource loaded programmes
- Pre-construction validation
- Contract programme management
- Logistic phasing plan
- Programme narrative
- QSRA
- Programme validation
- Resource & production output validation
- Weekly progress reporting
- Detailed blockade planning

## How we made a difference

Plan Ahead gave detailed technical and practical planning knowledge to support the creation of the blockade programme, underpinning the QSRA process. We provided technical knowledge on civil engineering processes and methodologies for their inclusion into the master and QSRA programmes. In addition, we led and produced detailed phase diagrams for the stations rebuilds - in particular Kirkham Station, where for parts of the blockade, local trains would still run through the station to access Blackpool South Station branch line.





# Blackburn Batch



Water



Blackburn



107 million

Plan  
ahead  
CASE STUDY

# Blackburn Batch

<b>Owner</b>	United Utilities
<b>Sector</b>	Water
<b>Project Value</b>	£107 million
<b>Principle Contractor</b>	LiMA
<b>Client</b>	LiMA
<b>Contract Type</b>	NEC3

## Project Overview

Blackburn Batch involved removal of Darwen WwTW from service and provide storm storage and divert flows to Blackburn WwTW. It included the building of new works at Blackburn WwTW.

The project includes 'Nereda Technology' which is a new treatment technology designed to minimise plant footprints and reduce running costs, whilst meeting ever more stringent effluent quality requirements.

## Services Provided

- Attendance at client & internal meetings
- Quantity take offs
- Regular site visits
- Procurement schedules
- Outputs matrix
- Design programme development & management
- Resource loaded programmes
- Cl31 Contract programme
- Cl32 Programme updates
- Logistic phasing plan
- Programme narrative
- Programme validation
- Resource & production output validation
- Weekly progress reports

## How we made a difference

We provided detailed technical and practical planning knowledge to develop the casting sequence for the Nereda Tank - within LiMA prescribed methodology restrictions. Plan Ahead delivered technical knowledge on civil engineering processes to promote the reuse of parts of historical structures on site, to form the bases for new storm surge storage tanks.

We provided technical and practical planning knowledge to develop M&E refurbishment - replacement and upgrading of the site processes while maintaining a prescribed effluent throughput during the works.



# QEC Tidal Berth



🚢 Marine & Coastal

📍 Portsmouth

£ 35 million

Plan  
ahead  
CASE STUDY



# QEC Tidal Berth

<b>Owner</b>	Defence Infrastructure Organisation (DIO)
<b>Sector</b>	Marine & Coastal
<b>Project Value</b>	£35 million
<b>Principle Contractor</b>	VolkerStevin
<b>Client</b>	VolkerStevin
<b>Contract Type</b>	Bespoke DIO Contract

## Project Overview

This design and build contract will reconstruct the 90 year old existing structure at the tidal berth on the Middle Slip Jetty at Her Majesty's Naval Base Portsmouth.

Once complete this modern 21st century mooring will house the new Queen Elizabeth Class Aircraft Carriers. Works include new power facilities, installing new navigation beacons, dredging millions of tonnes of mud, along with the demolition and re-build of the existing jetty.

## Services Provided

- Develop contract programme
- Monthly progress reporting
- Change control
- Reporting change
- Subcontractor programme management
- Phasing plans
- Forensic - extension of time

## How we made a difference

Plan Ahead supported the project on a part time basis working closely with the team to develop and assist them with understanding the build sequence of the project.




We actively sought information and led meetings with subcontractors to understand progress and resource levels onsite.

In addition, we prepared the contract programme and then managed the live programme to ensure the berth was completed for the QEC vessel arrival. We supported the team successfully with demonstrating prolongation and acceleration measures.



# Devonshire Dock Hall D59/D58



-  Nuclear / Energy
-  Barrow-in-Furness
-  £ 100+ million

# Devonshire Dock Hall

## D59/D58

<b>Owner</b>	MOD
<b>Sector</b>	Nuclear / Energy
<b>Project Value</b>	£100+ million
<b>Principle Contractor</b>	BAE Systems
<b>Client</b>	Morgan Sindall
<b>Contract Type</b>	Bespoke DIO Contract

### Project Overview

BAE Systems have contracted Morgan Sindall to extend its Devonshire Dock Hall to incorporate new manufacturing and installation capabilities. This facility is the location where the Dreadnought class nuclear submarine will be integrated and tested. This development is part of an investment programme which includes a number of new facilities and refurbishment of existing buildings.

### Services Provided

- Strategic programme management
- Develop contract programme
- Monthly progress reporting
- Change control
- Reporting change
- Subcontractor programme management
- Phasing plans
- Forensic - extension of time

### How we made a difference

We supported Morgan Sindall and BAE systems in a re-baselining of their ongoing project, while resolving some of the complex programme interface requirements that had been historically impacting their master programme. We facilitated an adjustment to the programme management strategy to achieve progressive alignment for the good of the project.

We provided expert planning support for the M&E/Fit-out works and its integration into the building programme. Plan Ahead also introduced robust weekly dashboard reporting to manage the snagging and completion works to the 1st stage handover.

