



I.E.D.
Installations
Limited

Construction
Services

HUYTON LIBRARY
RIVER ALT RESEARCH CENTRE
COURT HEY PARK



PROJECT VALUE
£1.6
MILLION

DECARBONISATION, ELECTRICAL &
CONSTRUCTION UPGRADES

KNOWSLEY BOROUGH COUNCIL

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Over a 2-year period we successfully secured 3 KBC projects within the Huyton Postcode to commence with 3 Nr Decarbonisation upgrade to each building.

Huyton Library M&E Decarbonisation Upgrade

We started in Huyton Library that consisted off new Air Source Heat Pumps retaining the original central heating pipework and upgrading the Radiators, to complete the Mech package. Our Electrical works consisted of changing the entire General Lighting & Emergency lighting across the entire building, whilst utilising the original lighting control wiring, finally completing a PV Array and man safe system.

RARC River Alt Resource Centre Electrical only Decarbonisation Upgrade

Similar to the Library Scheme we changed over the entire General Lighting & Emergency Lighting Scheme and installed our PV Array to the roof.

National Flower Centre Court Hey Park Building Refurbishment and M&E Decarbonisation Upgrade

This was the 3rd instalment of the KBC Decarbonisation upgrade, this however was a more complex refurbishment coupled with the M&E installation our disciplines included:-

- Electrical Lighting LED Upgrade
- Mechanical Heating system to incorporate both Air Source Heating & New Radiators
- New Photovoltaic Roof Panels
- External Drainage Modifications
- New internal remodelling of the footprint
- New Flooring
- New DDA internal Footprint changes
- New External Steel Doors
- New Internal Doors & Ironmongery (ALL DOORS FIRAS EN3905 CONFORMANT)
- New Plastering throughout
- New Internal/External Decorations throughout
- Remove and replace new guttering
- Treated the Court yard external windows to maintain the heritage of the existing building
- New Internal Kitchens
- New CCTV Alarms integrated into the council network
- New L1 Fire Alarm
- New Intruder Alarm
- New Access Control System
- New Disabled Alarms

We coordinated directly with the Council Design Teams, Friends & General Public for:-

- Mech Drain down & System field modifications for the current heating system and new Mechanical Design
- BMS and Heating Controls for the Heating system
- Supply load assessment of the original electrical system to develop the design alongside the Council
- Electrical Break in and Testing to integrate the existing lighting control system to a new "self-Test" system
- Internal Earthing assessments at the origin for Bonding for the new PV connected back to the original earthing for energy transfer
- All Framework & Load Assessments of the Roof at the Library and Design Coordination for the PV panels and field containment, again with agreed Client design
- DNO Direct Network Operator Application direct for our client for the PV Generation
- Lifting & Traffic Management of the local area
- Asbestos Assessments and disposal of the existing systems in conjunction with Council



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HUYTON LIBRARY DECARBONISATION UPGRADE

- **Project Value: N/A**
- **Project Type: Building Upgrade**
- **Project Aim: Decarbonisation**
- **Project Completion: April 2022**

HUYTON LIBRARY DECARBONISATION UPGRADE

The Programme was a 12 Weeks Turn round relating to new council funding to upgrade the carbon foot print as a trail across 3 nr existing sites, namely Huyton Library, River Alt Recourse Centre RARC & the National Wildflower Park Court hey Huyton. All IED Sub Contractors & Operatives completed DBS Assessments to work within the Library as the Building maintained their events schedule whilst remaining open to the General Public.

The Council entrusted IED to Carry out the Load Assessments for each building to commence with the design and coordination to Upgrade the Buildings to achieve the maximum carbon efficiency to each building this in turn impacted on 3 systems:-

- ❑ Electrical Lighting LED Upgrade
- ❑ Mechanical Heating system to incorporate both Air Source Heating & New Radiators
- ❑ New Photovoltaic Roof Panels

We coordinated directly with the Council Design Teams for:-

- ❑ Mech Drain down & System field modifications for the current heating system and new Mechanical Design
- ❑ BMS and Trace Heating Controls for the Heating system
- ❑ Electrical Break in and Testing to integrate the existing lighting control system to a new "self-Test" system
- ❑ Internal Earthing assessments at the origin for Bonding for the new PV connected back to the original earthing for energy transfer

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HUYTON LIBRARY DECARBONISATION UPGRADE



- ❏ All Framework & Load Assessments of the Roof at the Library and Design Coordination for the PV panels and field containment, again with agreed Client design
- ❏ DNO Direct Network Operator Application direct for our client for the PV Generation
- ❏ Lifting & Traffic Management of the local area
- ❏ Asbestos Assessments and disposal of the existing systems in conjunction with Council











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RIVER ALT RESOURCE CENTRE

- Project Value: N/A
- Project Type: Decarbonisation Upgrade
- Project Aim: Improve Carbon Footprint
- Project Completion: July 2023

RIVER ALT RESOURCE CENTRE DECARBONISATION UPGRADE

The Programme was a 12 Weeks Turn round relating to new council funding to upgrade the carbon foot print as a trail across 3 nr existing sites, namely Huyton Library, River Alt Recourse Centre RARC & the National Wildflower Park Court hey Huyton. All IED Sub Contractors & Operatives completed DBS Assessments to work within the Library as the Building maintained their events schedule whilst remaining open to the General Public.

The Council entrusted IED to Carry out the Load Assessments for each building to commence with the design and coordination to Upgrade the Buildings to achieve the maximum carbon efficiency to each building this in turn impacted on 2 systems:-

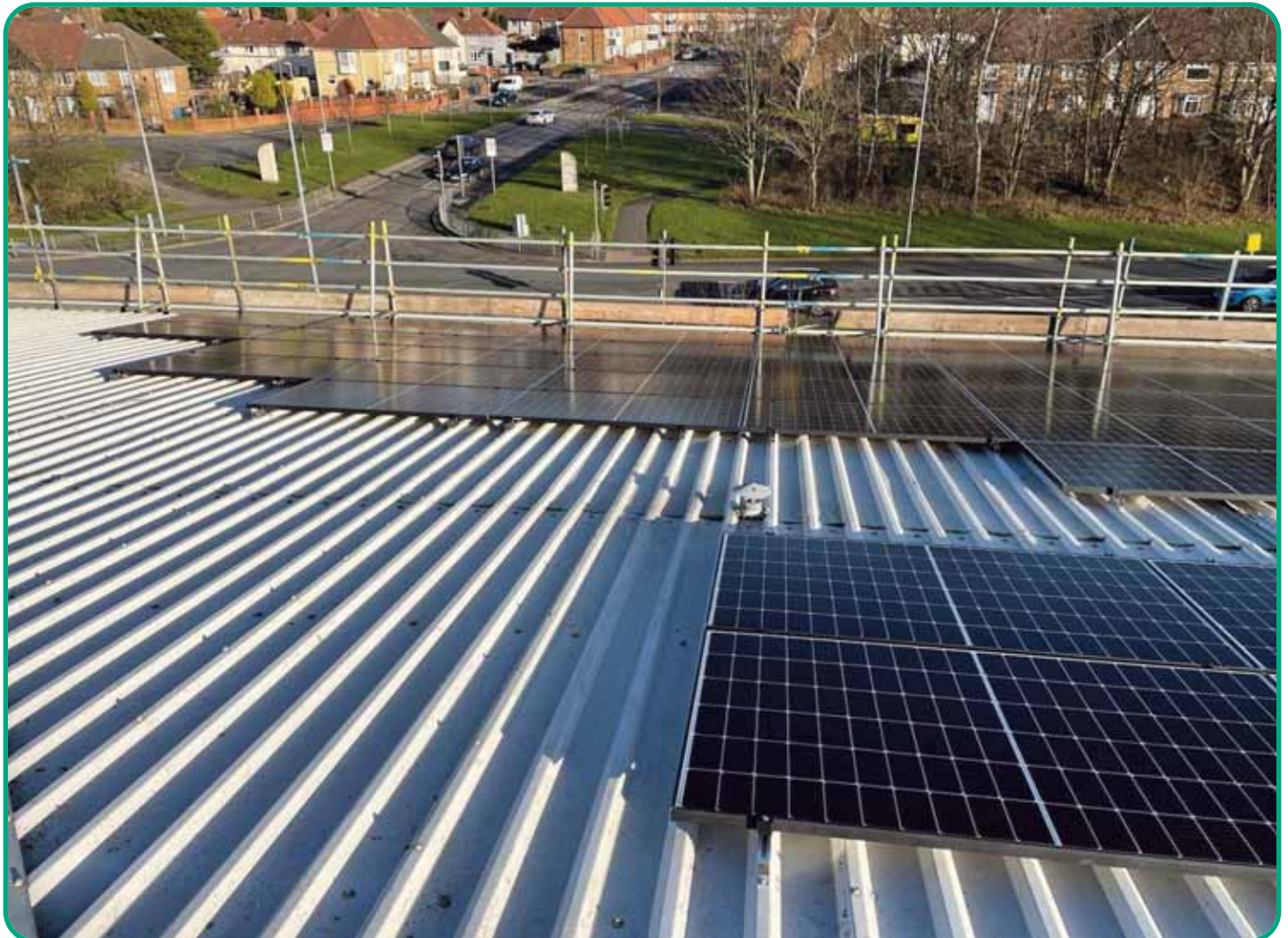
- ❏ Electrical Lighting LED Upgrade
- ❏ New Photovoltaic Roof Panels

We coordinated directly with the Council Design Teams for:-

- ❏ Electrical Break in and Testing to integrate the existing lighting control system to a new "self-Test" system
- ❏ Internal Earthing assessments at the origin for Bonding for the new PV connected back to the original earthing for energy transfer
- ❏ All Framework & Load Assessments of the Roof at the Library and Design Coordination for the PV panels and field containment, again with agreed Client design
- ❏ DNO Direct Network Operator Application direct for our client for the PV Generation
- ❏ Lifting & Traffic Management of the local area

RIVER ALT RESOURCE CENTRE















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KMBC COURT HEY PARK REFURBISHMENT

- Project Value: N/A
- Project Type: Carbon Upgrade
- Project Aim: Decarbonisation
- Project Completion: June 2022

KMBC COURT HEY PARK REFURBISHMENT

Knowsley Council have rolled out a new PSDS Public Sector Decarbonisation Scheme Trails across the current council buildings to reduce their carbon footprint.

Funding from the Public Sector Decarbonisation Scheme will be used for low carbon upgrades to the heating, new LED lighting throughout the buildings and solar panels on the roof. These improvement works will ensure that One Knowsley can operate from high quality facilities and enable them to fulfil that aim.

One Knowsley is the borough's infrastructure organisation for voluntary, community, faith and social enterprise providing the expertise and support to help the sector to start, grow, build resilience and thrive. It provides specialist information, advice and guidance enabling opportunities for collaboration and influence.

Our Installation programme was a 16 Week turn round with the project delivered on time, due to upstream event commitments to the "Friends of the Council". All IED Sub Contractors & Operatives completed DBS Assessments to work within the Library as the Building maintained their events schedule whilst remaining open to the General Public.

The Council entrusted IED to Carry out the Load Assessments for each building to commence with the design and coordination to Upgrade the Buildings to achieve the maximum carbon efficiency to each building this in turn impacted on 3 systems:-

- Electrical Lighting LED Upgrade
- Mechanical Heating system to incorporate both Air Source Heating & New Radiators

Continued Overleaf...

COURT HEY DECARBONISATION UPGRADE



- ❖ New Photovoltaic Roof Panels
- ❖ External Drainage Modifications
- ❖ New internal remodelling of the footprint
- ❖ New Flooring
- ❖ New DDA internal Footprint changes
- ❖ New External Steel Doors
- ❖ New Internal Doors & Ironmongery (ALL DOORS FIRAS EN3905 CONFORMANT)
- ❖ New Plastering throughout
- ❖ New Internal/External Decorations throughout
- ❖ Remove and replace new guttering
- ❖ Treated the Court yard external windows to maintain the heritage of the existing building
- ❖ New Internal Kitchens
- ❖ New CCTV Alarms integrated into the council network
- ❖ New L1 Fire Alarm
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