

Waste Minimisation in Refurbishment

Project: Shell Centre 26 Storey Tower Building

Client: Shell

ISG and SPIE Matthew Hall are working as Principle Contractors on the strip out, refurbishment and infrastructure of the 26 storey Shell Centre Tower building.

The construction industry produces a significant volume of waste from its activities and ISG and SPIE Matthew Hall have set out to minimise this waste as part of their commitment to Sustainability.

During major refurbishment strip out works there is always a high level of waste generated and in order to fulfil our companies' Sustainability targets, we targeted reducing the amount of waste generated going to landfill. To comply with the Project Site Waste Management Plan, action was also required to reduce waste generated from new fit out and infrastructure materials.

In order to achieve the best practical environmental option for the waste from this project, the various options from the waste hierarchy were investigated. The option chosen as a result of this, as documented in the site waste management plan, was strict segregation at source for transport directly to various waste transfer stations. Plasterboard, timber, inert (brick, tiles, hardcore), cardboard and metal is collected and then processed for re-use and recycling. General waste is transported for further segregation and the superfluous matter is incinerated to generate power. Off cuts of unistrut are collected in a central area rather than going into the metal skip, for re-use by all trades.

- Re-use of temporary Air Handling Plant was achieved through donating the plant to Mission Without Borders via Global Hand.
- Re-use of carpet tiled was achieved through donating to charity and using on other site set ups.
- Timber from chilled beam pallets is being donated to national Scouting organisations.

The three key learning points were:

- Early consideration and establishment of the Site Waste Management Plan to establish the controls from the start of works.
- Continuous employee engagement, training and labour resource essential for site segregation to be effective.
- Cost and environmental benefits both achieved by pro-actively managing all waste streams.

Contact

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Air handling units for re-use through a charity in Moldavia



Carpet tiles for re-use