

Resource Matching Service

Improving productivity through efficient resource management

Polysorb Group

The Challenge

Solvents can be a costly but essential raw material for many businesses. The subsequent handling and waste management is also expensive due to the characteristics of the solvent and waste management regulations. At a recent Resource Matching workshop, a manufacturing company sought help to find a cost-effective disposal option for used solvent.

The Solution

Larne-based Polysorb Group, an International Synergies member, designs and installs bespoke solvent recovery systems and offers innovative solutions to environmental spillage problems. Polysorb were able to resolve the resource issue by offering to supply bespoke equipment that would reclaim the solvent so that it could be reused.

Solvent recovery typically involves distillation with a vacuum generator to give pure solvent for reuse. Not only a simple process, it is suitable for large and small volumes of waste solvent, often yielding substantial economic and environmental benefits:

- **Reduction in solvent purchases by 90%**
- **Significant reduction in waste costs and landfill diversion**
- **Reduction in the release of volatile organic compounds (VOCs)**

The Outcome

The IS Practitioner maintained contact with both companies to provide any guidance or support necessary until the match progressed from discussion to implementation. The resulting synergy achieved significant cost savings for the manufacturing company who could now reuse up to 90% of its solvent rather than dispose of it.

Average benefits gained from solvent recovery synergies:

Cost savings: **£11,700**

Private investment: **£2,300**

Additional sales: **£2,500**

Hazardous waste diversion: **3 tonnes**

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