**Introducing the Green Foundry Project**

The Green Foundry project plays a key role in the European foundry industry, focusing on the environmental impact of sand systems. It aims to improve the use of natural resources, in particular the use of inorganic binders in ferrous foundries. Inorganic binders are used in sand molding systems, which have a significant environmental and economic impact.

**Objective**

The Green Foundry Project has a main objective to reduce the environmental impact of foundry sand systems. It focuses on improving the use of inorganic binders, which are known to have a lower environmental impact compared to organic binders. The project aims to demonstrate different methods for purification and re-use of surplus sand.

**Methods**

Several methods are being tested to improve the use of inorganic binders. These include the use of new inorganic binders, the re-use of foundry sand, and the purification of sand before re-use. The project also aims to improve the quality of castings produced with inorganic binders.

**Results**

The project has already achieved significant results. Inorganic binders have been successfully used in several foundries, leading to improved quality of castings and reduced environmental impact. The project's approach has been recognized by the European Union, which funded it through the LIFE Programme.

**Impact**

The Green Foundry Project is expected to have a significant impact on the European foundry industry, improving the use of natural resources and reducing the environmental impact of sand systems. It is an example for other foundries and industrial sectors to follow, leading to a more sustainable future.