

# Sims Metals



Project Value



Client



Duration



Sector

The installation of a new scrap metal processing plant at Sims Metals Newport site required a connection that would cope with the starting and stopping of a 6MW 11kV crusher motor.

Connection to the local 11kV or 33kV network was not possible due to the voltage disturbance that this would introduce so a connection was therefore proposed to the WPD 132kV network which ran directly past the site.

With a 132kV connection point established Powersystems designed and constructed the required 132kV substation and co-ordinated the connection works with WPD.

The new 132kV substation compound and switch rooms were designed and constructed by Powersystems to suit the substation equipment.

Within the 132kV substation Powersystems supplied and installed the following equipment

- ▶ 1No 15MVA 132/11kV transformer
- ▶ 132kV circuit breakers
- ▶ 132kV disconnectors
- ▶ 132kV overhead busbar system
- ▶ 5 panels of 11kV switchgear
- ▶ Auxiliary power transformer
- ▶ Protection panels
- ▶ Battery chargers
- ▶ 11kV cables
- ▶ Building lighting and power
- ▶ Substation earthing

A remote 11kV substation was also established 800m from the 132kV substation to act as the crusher motor substation.

The complete installation was tested and commissioned by Powersystems engineers to the clients and WPDs satisfaction.

**t** 01454 318000

**w** [www.powersystemsuk.com](http://www.powersystemsuk.com)

