

**Client:**

Ferrexpo PLC

**Project:**

Ferrexpo Iron Ore Expansion Projects

**Project Location:**

Central Ukraine

**Project Value:**

> USD 7B (2008)

**Services:**

- Feasibility studies
- Long lead procurement
- Cost reimbursable basis

## 1. Project Overview

Ferrexpo PLC is a London UK listed iron ore company with an existing pelletising operation and a portfolio of iron ore magnetite assets located in the Poltava region of Ukraine, some 250 km south east of Kiev. Ferrexpo's growth strategy is to be achieved through a program of projects including upgrading existing facilities (known as the GPL mine) and the development of new mines, concentrators and pellet plants with associated infrastructure.

The existing GPL facilities include three magnetite deposits combined into one open pit mine, two 6 Mt/a concentrators and four 3 Mt/a pellet lines producing approximately 9 Mt/a of blast furnace grade pellets. The pellet lines use grate-kiln technology.

The expansion plan include:

- Upgrade of existing GPL facilities to enable production of direct reduction grade pellets

- Development of the Yeristovskoye mine with its associated 10 Mt/a concentrator, 5 Mt/a pellet plant and concentrate transfer pipelines to GPL
- Development of the Belanovskoye mine with its associated 15 Mt/a concentrator and 15 Mt/a pellet plant

## 2. Scope of Work

The scoping studies were undertaken by ProMet and the subsequent work, including feasibility studies, was undertaken in partnership with WorleyParsons (Europe) where ProMet was responsible for the concentrators and pellet plants. ProMet's work scope was executed in Perth with support personnel located on site in the Ukraine and in WorleyParsons' London office.

ProMet's concentrator scope includes:

- Receiving run of mine ore
- Primary and secondary crushing
- HPGRs

- Rougher magnetic separation (RMS) and screening
- Coarse tailings screening
- Primary grinding - ball mills
- Intermediate magnetic separation (IMS)
- Fine grinding – tower mills
- Cleaner magnetic separation (CMS)
- Rougher flotation
- Regrinding – tower mills
- Scavenger flotation
- Concentrate thickening and blending
- Filter plants
- Fine tailings thickening
- Procurement of long lead equipment

ProMet's pelletising scope includes:

- Reveal of filtered concentrate
- Balling
- Additive reveal, storage, grinding, mixing, etc
- Induration

- Associated infrastructure
- Procurement of pellet plant package

## 3. Project Schedule

- Scoping studies 2006
- Pre-feasibility studies 2007
- Feasibility (Funding) studies 2007/8 for initial projects
- Long lead procurement 2008
- Anticipated for initial projects
  - FEED 2010
  - Construction 2010
  - Commissioning 2013

