


Possibility to have a joint venture for the process of Polycrystalline Silicon in the DPR of Korea.

Final Goal	Joint Venture for the process of Polycrystalline Silicon in the DPR Korea
Author	Kohler Patrick, Business Agent and Consultant in Switzerland
First Date	2009-02-26
Deadline	Not specified
Date of Last Modifications	2009-02-26
Revision N°	1
News related to this project	None
Other informations	We have the natural resources but need the foreign side to provide the machinery of Reduction Furnace to process the mineral .
Remarks	None

General Informations	Silicon metal, also called crystal silicon or industrial silicon.
Typical Application	<p>Polycrystalline silicon (or semicrystalline silicon, polysilicon, poly-Si, or simply poly in context) is a material consisting of multiple small silicon crystals. Polycrystalline cells can be recognized by a visible grain, a “metal flake effect” [2].</p> <p>Silicon is most often companioned with oxygen to form sand. When the oxygen is stripped from the silicon, crude polycrystalline silicon remains. Ultra-pure poly is used in the semiconductor industry, starting from poly rods that are five to eight feet in length.</p> <p>In microelectronic industry (semiconductor industry), poly is used both at the macro-scale and micro-scale (component) level.</p> <p>At the macro scale, polysilicon is used as a raw material entering a process in which single crystals are grown (see Czochralski process, Bridgeman technique, Float-zone silicon).</p> <p>At the component level, polysilicon has long been used as the conducting gate material in MOSFET and CMOS processing technologies. For these technologies it is deposited using low-pressure chemical-vapour deposition (LPCVD) reactors at high temperatures and is usually heavily N or P-doped.</p> <p>Polycrystalline silicon is also a key component of solar panel construction. The photovoltaic solar industry is growing rapidly but is likely going to be very limited in 2006-2008 due to severe shortages and allocations of the polysilicon material.[3]</p> <p>For the first time in 2006, over half of the world's supply of polysilicon is being used for production of renewable electricity solar power panels.[4]</p>

	There are only twelve factories of solar grade polysilicon in the world (in 2008).
Photo	
Purity	99.9999 %
Price	To negotiate
Importation Route	To negotiate
Quantity	5 tons / year
Conditions	Expendable after first shipment