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## Direct From Midrex

**direct from - midrex** - 3 table of contents 3.2 3.25.19 9.18 direct from midrex page 3 first quarter 2019 introducing midrexconnect™ by charles cotton, global solutions program manager - midrexconnect™ introduction the greek philosopher heraclitus of ephesus (c. 500 bc) said, “change is the **gasification and the midrex? direct reduction process** - midrex is a technology company based in charlotte. our key proprietary technology, the midrex direct reduction process, is the dominant technology for making dri. in 1998, 67% of all dri was produced using the midrex process. currently, there are 47 midrex dr modules operating in 16 **world direct reduction statistics - midrex** - world direct reduction statistics 2017 contents 2 world dri production 7 world dri production by region/year 8 world dri production tables 10 major trade routes for international trade of dri 11 world dri shipments 12 world direct reduction plants audited by midrex 5.24.18 **state of the direct reduction and reduction smelting processes** - state of direct reduction and reduction smelting processes j. min. met. 38 (3 ± 4) b (2002) 129 figure 3. schematic review of midrex process [2] ore or iron oxide pellet solids in the bed, figure 3. the reducing gas (from 10-20% co and 80-90% h<sub>2</sub>) is produced from natural gas using midrex’s co<sub>2</sub> reforming **flexibility of direct reduction technology the midrex way** - midrex has broad design experience and plants currently operating with: co<sub>2</sub> removal + heater (using corex offgas) midrex reformer steam reformer experience producing dri/hbi with reducing gas h<sub>2</sub>/co ratio ranging from 0.3 to 3.9 midrex process experience energy source midrex plant reference reducing gas train reducing gas h<sub>2</sub>/co start-up **midrex operator manual dri - ibilinoisbackpain** - midrex is direct reduction process using a shaft-reactor and is developed by midrex/kobe steel. iron ore pellets, lump iron ore or a combination of pellets and ore are reduced in a vertical shaft or reduction furnace to metallic iron by means of a reduction gas. the reducing gas is produced from a **greener steelmaking with the midrex direct reduction process** - the direct reduction (dr) shaft furnace followed by eaf. in this case, natural gas is used in a direct reduction technology such as the midrex process as a reductant to remove oxygen from iron and as a fuel to provide heat. natural gas can also be used to produce the electricity required for the eaf. the dr/eaf combination has much **potential for co<sub>2</sub> emissions reduction in midrex direct ...** - 1 potential for co<sub>2</sub> emissions reduction in midrex direct reduction process presented by hidetoshi tanaka iron unit division kobe steel, ltd. november 6, 2013 **cost effectiveness analysis of hyl and midrex dri ...** - cost effectiveness analysis of hyl and drex dri technologies for the iron and steel-king industry page | 2 acknowledgements i am thankful for the wonderful support shown to me by my advisor, dr. brian murray at duke university. **direct reduced iron - platts** - direct reduced iron (dri) is created by heating iron ore in a steel shaft with natural gas, ... midrex, ubs estimates. units cost iron ore tons 1.45 \$170 \$246.5 natural gas mmbtu 8.9 3.75 33.5 **the iron paradigm: a new age for direct reduction** - over the past four decades midrex technologies, inc. has risen to the occasion by supplying the industry with the world’s most reliable and productive direct reduction technology: the midrex® process. plants using the midrex® process are the world’s largest, most flexible and **innovative uses of hydrogen in steelmaking** - innovative uses of hydrogen in steelmaking presentation by jayson ripke, midrex technologies, inc., at the h<sub>2</sub>@ scale workshop, held may 23 24, 2017, in houston, texas. created date 5/25/2017 4:54:37 pm **green[er] steelmaking with the midrex direct reduction process** - proven method for producing steel using natural gas is the shaft furnace direct reduction (dr) plus eaf steelmaking route. in this case, natural gas is used in a direct reduction technology such as the midrex® process as a reductant to remove oxygen from iron and as a fuel to provide heat. **overview of market for direct reduced iron** - □□□□ - overview of market for direct reduced iron akihiro sawada, takaaki miyamoto international operations department, iron unit division, natural resources & engineering business unlike the blast furnace process, which utilizes coking coal, the direct reduction process utilizes natural gas and non-coking coal as a reductant. the worldwide

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