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FUTURE INVESTMENT PROJECTS IN THE GLOBAL STEEL INDUSTRY

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A recent proposal for work on capacity, put forth by Japan, noted that it would be useful for the Secretariat to monitor steelmaking investment projects taking place around the world, as this would help the Steel Committee to better understand how overcapacity trends might evolve in the future. This paper aims to provide delegates with detailed information on steel projects currently taking place around the world, and is for discussion under Item 4 of the agenda.

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FUTURE INVESTMENT PROJECTS IN THE GLOBAL STEEL INDUSTRY

1. Introduction

1. At the last Steel Committee meeting, in December 2013, delegates discussed excess capacity in the global steel industry and exchanged ideas for future work in this area. Despite the ongoing, moderate recovery in world steel demand, and the fact that some steelmaking companies are adapting by taking some uncompetitive mills out of the market, global excess capacity is not easing significantly because investments continue to take place at a rapid pace in many parts of the world. While many investments are the result of the commercial decisions of private companies, delegations of the Steel Committee are increasingly concerned about the role that government interventions may be playing in global capacity developments.

2. A recent proposal for work on capacity, put forth by Japan, noted that it would be useful for the Secretariat to monitor steelmaking investment projects taking place around the world, as this would help the Committee to better understand how the relationship between capacity and demand might evolve in the future.¹ More specifically, the Secretariat was asked to look at investment projects that have come on stream very recently as well as announced projects planned over the next few years, including details of the companies involved, the equipment and furnace capacity, sources of finance for the projects, and, where available, government support programmes associated with these projects (subsidies, preferential loans, tax breaks, special licenses, trade remedies, export credits, etc.).

3. This paper is a first step towards meeting that end. It aims at providing delegates of the Steel Committee with detailed information on steel projects currently taking place around the world. The Secretariat collected as much information as possible on significant capacity projects (projects with a capacity of one million tonnes or more) being undertaken by companies in OECD and non-OECD economies alike. These projects are presented by region, economy and company in the Appendix of this document. The tables in the Appendix provide information on the location of the project, the type of equipment invested in (i.e., the steelmaking furnaces and/or downstream facilities), the capacity of each piece of equipment and the corresponding year when production is expected to begin, the name of the supplier of the equipment, and the capital expenditures involved in the investment. Brief explanatory notes are also provided in the tables to provide some context.

4. The remainder of the paper is organised as follows. The next section summarises the project information that is presented in the Appendix tables, by highlighting several key projects taking place in different economies. To give broader context, Section 3 provides some information on the global level of nominal excess capacity and gives a comparative analysis of regional capacity developments since the start of the 21st century. Section 4 discusses several factors that could either advance or hinder the steel industry projects that have been announced.

¹ Proposals for future work on capacity are put forth in [DSTI/SU/SC\(2014\)3](#).

2. Regional steel investments now and in the future: a summary

Europe (including Turkey)

5. The European steel industry has suffered from declining demand since late 2008, though indications of a recovery are now emerging. Apparent steel use in the European Union has plummeted by almost 30 percent compared to the level prevailing before the outbreak of the global financial crisis. The recession had significant impacts on the structure of steel supply in the region; several steelworks closed or reduced their output, and employment in the steel sector fell by 10% between 2007 and 2011 (European Commission, 2013).

6. The most significant increase in steelmaking capacity within the region has occurred in Turkey, where capacity has risen from 21.9 mmt in 2002 to 49.0 mmt tpy in 2012 (Turkish Steel Producers Association, 2013). Turkey continues to register one of the highest steel production growth rates in the world and is assuming an increasing role in the global steel industry (see Box 1).

Box 1. Turkey's growing role in the global steel industry

Turkey became the world's eighth largest steel producer in 2012, up from 10th largest in 2011. The country is now the second largest steel producer in Europe, behind Germany, according to World Steel Association data. The country's geographical proximity to developing regions such as the Middle East and North Africa provides significant support to its steel exports and production growth. Electric arc furnace technology assumes a significant role in steel production in Turkey, accounting for 77% of the country's steelmaking capacity (Erdemir, 2013), and consequently Turkish crude steel production is heavily dependent on imported scrap. The country is also making efforts to increase basic-oxygen furnace capacity to meet growing demand from the automotive, machinery and white goods industries. Indeed, the country's flat steel production capacity increased five-fold since 2006 (Erdemir, 2013). In line with the rapid capacity expansion, imports of iron ore and ferrous scrap reached record highs in 2012.

7. A brief summary of the major projects taking place in Turkey include:

- In northern Turkey, Kardemir (an integrated steel producer) intends to increase its production capacity to 3 mmt through several upstream expansion investments. To achieve this target, the company is building a No. 5 blast furnace with an inner volume of 1 280 m³ at its works in Karabuk and is scheduled to begin operation of the furnace in July 2014. Moreover, the company has recently revealed its plan to build a new plant with a total capacity of 6 mmt in Filyos, in the north-western province of Zonguldak.
- In Izmir (in western Turkey), Habas plans to build an electric steelmaking complex with a capacity of 3 mmt. The company is ready to start operation of its new hot strip mill in order to enter the flat product market.

Commonwealth of Independent States (CIS)

8. Efforts to modernise steel production facilities continue to take place in the CIS region, with several mini-mill projects and the replacement of outdated open-hearth furnaces (OHF) with new basic-oxygen furnaces (BOF) and electric-arc furnaces (EAF) having been announced. Between 2002 and 2012, the region's share of crude steel production via the energy-intensive OHF technology decreased from 29.9% to 13.9%, while the share of EAF production has risen from 12.2% to 21.9% during this period. The share of BOF production has also increased (from 57.9% in 2002 to 64.2% in 2012), according to World Steel Association data. The Russian Federation is aiming to replace all of its OHF facilities by 2015

(Russian Steel Consortium, 2013). On the other hand, Ukraine expects to complete the replacement of its open hearth technology by 2018 (SE UEX Co. Research & Consulting, 2014).

9. In the **Russian Federation**, several mini-mill projects are expected to come on stream in the next few years, to meet growing demand particularly for rebar due to numerous housing and construction projects, including activity for the football World Cup in 2018. Significant capacity increases will occur in the Southern, Volga and Central federal districts, which are more densely populated and consume more steel. In addition, these areas have relatively easy access to export markets and scrap reserves. Platts Steel Business Briefing reported in January 2014 (Platts, 2014a) that the government expects the share of EAF production to reach 39% by 2020. Observers have noted that competition is likely to increase in the next two years as NLMK Kaluga's EAF and Severstal Balakovo's EAF begin operations (at full capacity) in 2015. Russian EAF growth should have significant impacts on ferrous scrap demand, and the volume of scrap bought by mini-mills. Scrap demand is likely to exceed domestic scrap collection, resulting in a shortage of scrap in the country (Russian Steel Consortium, 2013). A brief summary of the major projects occurring in Russia is provided below.

- On 23 July 2013, Novolipetsk Steel (NLMK) held a grand opening ceremony for NLMK Kaluga's 1.5 mmt EAF, which specialises in the production of long products for the construction sector. The plant is located in Kaluga, approximately 90 kilometres to the southwest of Moscow. This plant is expected to help ease the shortage of long product capacity currently facing the Central Federal District of Russia, which consumes over one-third of the country's long steel products.
- Severstal began testing the electric arc furnace of its new 1 mmt mini-mill for long products in April 2014, located in Balakovo. This project is regarded as the most important investment project taking place in the Volga Federal District.

10. In **Ukraine**, several open-hearth furnaces have been decommissioned since 2009, and crude steelmaking capacity has recently declined (SE UEX Co. Research & Consulting, 2014). Consequently, the country's crude steel production has been declining since peaking in 2007, reaching 32.8 mmt in 2013. Between 2011 and 2013, modernisation activities have accelerated, with the share of steel production made in open-hearth furnace falling by more than half, from 44.2% in 2007 to 19.2% in 2013, according to the World Steel Association data. There are far fewer upstream steel projects in Ukraine compared to the Russian Federation. In Donetsk, a major industrial city in eastern Ukraine, Donetsk Iron & Steel Works (DMZ) was expected to commission its 1.5 mmt electric arc furnace in 2014, though the company has postponed the launch of its first EAF several times.

North American Free Trade Agreement (NAFTA) region

11. In NAFTA, the shale gas and oil boom has changed the landscape for energy prices, and have helped to lower domestic energy prices. The boom in oil and gas production is having important effects on the industry, both in terms of demand-pull effects (increased demand for steel products such as oil country tubular goods, or OCTG, and linepipe) and because lower energy prices help raise the competitiveness of energy-intensive sectors such as steel (for example, steelmakers in the region can benefit from low-cost natural gas in direct reduced iron, or DRI, installations). As a result, some steelmakers are exploring opportunities for building DRI plants in the United States, Canada and Mexico (Midrex, 2012). Several DRI plant projects have been announced in recent years. Although DRI technology has existed for several decades, previously it was too costly given the premium of gas prices over coal.

12. In **Mexico**, at least three electric-arc furnaces are expected to begin operations by 2015, supported by relatively positive prospects for the construction market. For example, the government's five-year infrastructure plans, including roads, railways, ports and airports, will help support demand for

construction steel. At the same time, automotive production is strong and the domestic automotive sector is attracting foreign steel investors to the country.² The integrated steelmaker Altos Hornos de México (Ahmsa) has launched a USD 1.5 billion Fenix program that is expected to increase the company's steelmaking capacity to 5.5 mmt, including the installation of a new blast furnace, an electric arc furnace, a continuous caster and a second line of plate in Monclova, in the northern state of Coahuila. In addition, the company was reported to be investing USD 800 million to build a third mill in Monclova aimed at serving the automotive industry. Talleres y Aceros (Tyasa) also commissioned a DRI based mini-mill in Orizaba in 2014 and Gerdau Corsa's new mini-mill in Tlalnepantla is expected to come on stream in 2015.

13. Turning to investment projects in the **United States**, at least five DRI plants, which would use natural gas instead of coal, are either being considered or being built. Platts Steel Business Briefing reported in March 2014 (Platts, 2014b) that DRI capacity in the U.S. could reach 10 mmt by 2020. The DRI projects that are underway in the country include:

- On 24 December 2013, Nucor commissioned its first DRI facility in the United States with a capacity of 2 mmt in Louisiana. Tenova HYL supplied the DRI facility to the company and it became one of the largest DRI plants in the world. This plant became the first DRI plant to operate in the U.S. since 2009.
- European integrated steelmaker Voestalpine has invested EUR 550 million to build a 2 million tonne DRI plant in Texas, which is expected to be inaugurated in 2016. This investment will be the company's largest ever foreign investment. The company expects 50% of the plant's output to be sent to its steelworks in Austria while the rest will be shipped to merchant markets.³
- Essar Steel Minnesota has received permits for DRI facilities in Minnesota.

Latin America

14. Most of the capacity expansion projects in Latin America will occur in Brazil, including some important slab-for-export projects. New steel projects are also being planned by governments or state-owned enterprises (SOEs) in Bolivia, Ecuador and Venezuela. However, some projects have been on hold or have faced delays due to, e.g., uncertain market prospects and logistical problems.

15. In **Brazil**, many greenfield slab projects have been announced by major mining groups. The CSA Siderúrgica do Atlântico project, which was commissioned by ThyssenKrupp AG, was based on the premise that slabs would be produced at low cost using high-quality Brazilian ore (The Tex Report, 2014). In addition, several projects are starting in the long products segment, to meet demand for construction steel.⁴ Construction projects related to major sporting events, such as the football World Cup 2014 and Olympic Games 2016, are expected to support demand for long steel products. New slab projects in the country have been planned in several states such as Pará and Ceara, though some of them have been suspended or cancelled. Major greenfield projects include:

² There has been an automotive manufacturing boom in Mexico over the past few years. Mexico's car production has increased from 1.6 million units in 2003 to 3.1 million units in 2013, according to OICA data. Tenigal – Nippon Steel & Sumitomo Metal Corp's (NSSMC) automotive steel joint venture with Ternium in Mexico – has started commercial operations in Monterrey.

³ The company has signed a memorandum of understanding with Mexico's Altos Hornos de México SAB de CV (Ahmsa) to sell the steelmaker several hundred thousand tonnes of hot-briquetted iron (HBI) annually.

⁴ For example, Brazil steelmaker Companhia Siderúrgica Nacional (CSN) plans to begin operation of its new longs plant with a capacity of 500 000 tpy in 2014. CSN will be the fifth company to compete directly in the Brazilian longs market along with ArcelorMittal, Gerdau, Votorantim Siderurgia and Sinobrás.

- Vale is involved in three greenfield slab projects in the country: Aços Laminados do Pará (ALPA), Companhia Siderúrgica do Pecém (CSP) and Companhia Siderúrgica Ubu (CSU). CSP, a joint venture between Vale and two Korea companies, POSCO and Dongkuk Steel, is expected to be commissioned by the end of 2015. The project involves the installation of a blast furnace with an inner volume of 3 800 m³, two converters and a continuous slab caster, according to POSCO E&C.
- Vale's Aços Laminados do Pará (Alpa) project was suspended in mid-2012 after the federal government halted plans to improve port and navigation facilities on the Tocantins river. However, President Dilma Rousseff signed a decree in March 2014 to advance in these plans.

16. Elsewhere in Latin America, governments and SOEs are playing a role in investment projects:

- El Mutún, located in eastern **Bolivia**, is considered to be the world's largest iron ore mine with ore reserves of 40 billion tonnes. The Bolivian government planned to build a 1.7 mmt steel plant with a DRI plant in cooperation with Jindal Steel.⁵ After Jindal Steel withdrew from the project, China's Henan Complant Mechanical & Electrical Equipment Group (HCME) was selected by the government to construct Bolivia's first steelmaking plant with a capacity of 150 000 tpy.
- In **Ecuador**, the government has aimed to build a steel mill over the past several years, to promote the industrial development of the country. A new steelworks focussed on flat products with a capacity of 1 mmt is expected to start operating around 2016, in co-operation with China's Sinosteel Corp.
- **Venezuela's** state-owned company Siderúrgica Nacional is proceeding with the construction of a greenfield integrated steel plant with a capacity of 1.55 mmt in Ciudad Piar, located in south-eastern Bolívar State. The national project, called Siderúrgica Nacional José Inácio Abreu e Lima, consists of three main units, *i.e.* an electric-arc furnace, a continuous slab caster and a plate mill, and is expected to promote the region's industrial development.

Africa (North Africa)

17. North African steel demand has been affected in the past few years by political turbulence and the so-called "Arab Spring" that began in late 2010.⁶ Despite these uncertainties, several upstream projects, mainly DRI-based mini-mill plants, have been planned in the region with an aim to supply steel for housing and infrastructure projects, which the region needs greatly. However, some projects have faced gas and electricity supply issues.⁷ The region has been a major export destination for European and Turkish flat and long steel producers.

18. **Egypt** is the largest DRI producer in Africa. Steel production in the country takes place mainly in EAF facilities, which rely increasingly on DRI as a feedstock. The DRI-EAF route has been the preferred steelmaking method in the country due to its lower capital expenditure requirements and because the country has a shortage of steel scrap. Rising DRI capacity is likely to have impacts on the country's scrap requirements in the future. Major projects in the country include the following:

⁵ Jindal Steel had been a joint venture partner in the Mutún ore project until withdrawing from it in July 2012.

⁶ In 2011, apparent steel consumption (finished steel basis) in North Africa plummeted by 11.7% to 15.8 mmt, according data from the World Steel Association.

⁷ In Africa, natural gas is produced in Algeria, Egypt, Libya and Nigeria where DRI operations are underway (The Tex Report, 2014).

- In mid-2013, Suez Steel commissioned its DRI plant with a capacity of 1.95 mmt and a second meltshop with 1.28 mmt of capacity. However, technical and electricity/gas supply problems have delayed the start-up of the DRI plant.
- Beshey Steel, the second largest producer in the country, was reported to have delayed the commissioning of its DRI-EAF plant in Sadat due to gas and electricity supply problems.
- Ezz Steel, the largest steel producer in Egypt, is expected to commission its 1.8 mmt DRI plant and 850 000 tpy EAF in 2014.

19. The overall impact of the political turmoil on the **Algerian** steel market has been relatively limited compared with other North African economies. The country is the fastest growing steel-consuming market in Africa (CAGR 8.1% during 2002-2012), supported by state-funded construction projects. The automotive industry has also been one of the major drivers of steel consumption, having had expanded rapidly over the last few years.⁸ The Algerian government is making efforts to attract foreign investment in new steelmaking facilities, in the hope of offsetting the country's steel imports (Platts, 2012). Several investments include:

- ArcelorMittal and the state-owned company Sider will invest USD 763 million to boost steel capacity to 2.2 mmt at Annaba by 2017.
- Turkey's Tosyali started melting steel at its new EAF-based mill (with a capacity of 1.2 mmt) in the province of Oran, Western Algeria, in 2013. This became the first foreign investment by Tosyali Holding and the biggest private investment in Algeria.
- A new 5 mmt DRI-based longs and flats producing mill is expected to be built in Bellare, Jijel by the Algerian government and Qatar steel. The project is aimed at meeting steel demand from the growing construction and the automotive sectors, and is expected to boost the social and economic development of Jijel.

The Middle East

20. The Middle East has traditionally been a substantial importer of steel products because, until the middle of the last decade, it had little steelmaking capacity. Many projects have been announced recently in order to reduce import dependency, and the region's steel mills are making efforts to narrow the wide gap between crude and finished steelmaking capacity. Because much of the region's steel demand emanates from the building and construction sector, long products account for a large share of the region's steel consumption. Currently, oil exporters are aiming to diversify their economies and this should support steel demand from the manufacturing sector. Low energy and labour costs make the region one of the most competitive regions for producing DRI. However, industry observers have noted that insufficient power generation capacity in the region could hamper future growth in steel production capacity; currently, subsidised energy costs provide a competitive advantage to metal industries, but the explosive growth in power consumption may curb future capacity growth (Markaz, 2013).

21. The **Iranian** government has been aiming to increase the country's self-sufficiency rates (share of domestic production in consumption) not only in the steel industry but also in other industries, such as shipbuilding, oil-related industries and the medical industry (JETRO, 2012). Some believe that the country

⁸ Renault has launched a plan to build a new assembly plant in Algeria that would be its second plant in North Africa, following the construction of a new plant in Morocco.

could be self-sufficient in steel by 2015.⁹ Despite economic sanctions, extensive steelmaking investments have been carried out, and Iran became the world's 15th largest steel producer in 2012. Platts Steel Business Briefing reported in January 2013 (Platts, 2013a) that a total of 19 steelworks – 18 projects are based on DRI-EAF technology – were under construction in the country as of January 2013. Iran is now focusing on new mining projects to meet domestic demand from new steelworks, and needs more pellet production capacity to feed DRI production.¹⁰ Although most projects have been facing difficulty in procuring financial resources, some foreign investors have provided support for these projects. Several important projects in Iran include:

- Eight new mini steelworks have been under construction in less developed provinces of Iran in order to create jobs, improve local economies, and raise national output. Each of the new steelworks, which consist of a DRI module and meltshop with a billet caster (excluding the Brojen works), will have a capacity of 800 000 tpy of crude steel.
- Iran's major steel producer Mobarakeh Steel is aiming to increase the group's crude steel capacity to 11 mmt by 2015, from the current 6.9 mmt, through expansion projects involving Hormozgan Steel and Saba Steel.
- Esfahan Steel planned to increase its capacity by adding a blast furnace. However, the company was reported to have been facing a cash shortage and a lack of technology.

22. In **Saudi Arabia**, government-funded infrastructure projects - based on state oil revenues - and many housing projects have given a significant boost to steel consumption. This has led to an increase in capacity at many of the country's long product re-rolling plants.¹¹ With the country importing large quantities of semi-finished steel products, such as billets and blooms, for its re-rolling industry, many DRI-EAF projects have recently been planned as a way to stem import volumes. However, a shortage in natural gas allocation and electricity generation capacity has delayed the launch of a number of steelworks. In 2013, two EAF plants were commissioned in the eastern province and one project completed in the south-west of Saudi Arabia. Some projects include:

- Al Ittefaq Steel has completed its new Dammam-based billet plant with two 130 mt electric-arc furnaces (2.0 mmt) to achieve self-sufficiency in billet supplies.
- Hadeed, the largest integrated steelmaker in the Middle East, has started trial runs at its sixth electric-arc furnace, which is expected to reach its full capacity (1 mmt) by the end of 2014.
- In Jazan, South Steel commissioned its new mini-mill with a capacity of 1 mmt in July 2013.

⁹ Platts Steel business Briefing reported in July 2013 (Platts, 2013d) that Iran is aiming to become the world's eighth largest steel producer and to be a net steel exporter after it achieves self-sufficiency by 2025.

¹⁰ Platts Steel business Briefing reported in July 2009 (Platts, 2009) that iron ore reserves in Iran are estimated at about 4 billion tonnes (Fe 55-60%). Due to domestic demand and the high cost of rail transportation to ports, most miners are not very active in export markets.

¹¹ A major steel maker in Saudi Arabia plans to increase its rolling capacity not only for long products, but also for flat products in line with the growing automotive industry. According to OICA data, Saudi Arabia's car sales increased by 37% to 740 000 units between 2008 and 2013. Platts Steel Business Briefing reported in April 2014 (Platts, 2014d) that Saudi Arabia is aiming to create an automotive cluster that will produce up to 600 000 vehicles annually by 2025, and Saudi Basic Industries Corp. (SABIC), known as Hadeed, plans to build a 1 million tpy cold rolling mill and galvanizing plant in King Abdullah Economic City.

23. Over the past few years, the structure of steel supply in the other Middle East countries has gradually changed. **Bahrain** will soon have its first crude steelmaking plant after the completion of United Steel Company (SULB)'s plant.¹² **Iraq** is attracting private investments into various sectors, including the steel industry. **Oman**'s steelmaking capacity is expected continue to rise to meet the needs of many infrastructure projects in the country.

Asia

24. It is well known that a steel mill construction boom has been taking place in many Asian economies, and thus competition in the region's markets should intensify in the future (OECD, 2013b). Looking at developments in East Asian economies, operations at large-scale blast furnaces were started in both Korea and Chinese Taipei in 2013. Chinese Taipei's Dragon Steel Corporation, a subsidiary of China Steel Corporation (CSC), commissioned its No. 2 blast furnace with an inner volume of 3 274 m³ at its Taichung works on 5 March 2013, while Korea's Hyundai Steel finally completed its integrated mill project at its Dangjin work by blowing-in its No. 3 blast furnace (with an inner volume 5 250 m³) on 12 September 2013. In addition, the construction of two huge integrated steelworks, with annual capacities of 10 mmt each, is underway in the south of China.

25. Turning to investment projects in the ASEAN region, Indonesia's PT Krakatau POSCO (PTKP) formally blew-in its first blast furnace in 2013, which was the first large-scale blast furnace of its kind in Southeast Asia. Eastern Steel, of Malaysia, is ready to commission the country's first steel slab plant that uses blast furnace technology. Moreover, Formosa Plastics Group's (FPG) huge integrated steel complex is expected to come on stream in the next few years in Viet Nam.

26. **China** has displayed a sharp increase in steelmaking capacity over the past decade, and has accounted for most of the world's capacity growth since the early 2000s. As a result of overly optimistic estimates of future steel demand in the market and the ambiguity of the line between the government and the market, China is facing a significant excess capacity problem.¹³ Consequently, the Chinese steel industry has been suffering recently from declining profits and many Chinese mills have faced losses since 2011. Currently, the Chinese government is making efforts to eliminate outdated steel capacity to reduce overcapacity and air pollution, though it is likely to take time to solve this issue.¹⁴ According to a report by the China Iron and Steel Association, the current level of excess capacity is around 200-300 million tonnes and China may need 5-10 years to remove all of excess capacity in the country (CISA, 2013).

27. Although the growth rate of Chinese capacity is slowing down owing to government policy measures aimed at constraining the industry's expansion, the construction of, e.g., some very large integrated steel plants is likely to keep the level of capacity on an upward path. Many Chinese mills are also looking to build steel plants in overseas markets, such as Southeast Asia and Africa, as the overcapacity issue is making it difficult for them to make a profit in the domestic market (Platts, 2013b).

28. The location of China's steelworks has important implications not only for the structure of steel supply, but also in terms of how raw materials are accessed. There appears to have been a shift in focus from the tradition of building mills in resource-rich inland regions to coastal areas, where it is convenient

¹² SULB is a joint venture between Gulf United Steel Company, (FOULATH) Kingdom of Bahrain (51%) and Yamato kogyo, Japan (49%).

¹³ According to a statement by the Ministry of Commerce at the December 2013 meeting of the Steel Committee.

¹⁴ The State Council in China is aiming to remove at least 80 mmt of steelmaking capacity in six key Chinese provinces. The six provinces are Shandong, Hebei, Liaoning, Jiangsu, Shanxi and Jiangxi.

to import raw materials (especially iron ore), because domestic supplies have become insufficient in meeting the requirements of mainland production. The commissioning of the Ansteel Yingkou Bayuquan Project in 2008 (in Liaoning Province), the Caofeidian Project in 2010 (in Hebei Province) as well as the development of the Guangxi Fangchenggang Project (in Guangdong Province), the Guangdong Zhanjiang Project (in Guangxi Zhuang Autonomous Region), and the Rizhao Project (in Shandong Province) indicate the significant transformation that has occurred in China's steel industry towards coastal plants that are focused on the production of flat steel products. The 12th Five-Year Plan (2011-15) for the Chinese steel industry indicates that production in these areas will represent 40% of the country's total steel output by 2015 (KPMG, 2011).

29. As discussed above, three coastal steel bases are being developed in China: the Zhanjiang Project (Baosteel Group), the Fangchenggang Project (Wuhan Iron & Steel Group) and the Rizhao steel Project (Shandong Steel Group). These steelworks aim to focus on the production of high-end flat products. The Zhanjiang and Fangchenggang projects are only about 200 km apart, and both aim to produce high-end flat products for the automotive, white goods and machinery sectors based in southern China as well as in Southeast Asia. Further information about these projects is provided below.

- Baosteel Group's new greenfield integrated steel plant, with a capacity of 8.9 mmt, is underway in Zhanjiang, in Southern China's Guangdong province. The company began piling work for the construction of the first blast furnace with an inner volume of 5 050 m³ in October 2013, and construction of all key facilities of the project have now been started. The company is aiming to start the iron and steelmaking facilities around the end of 2015/early 2016 and the project is planned to be completed by September 2016. The company will reduce its planned equipment investment by relocating some existing facilities from its Shanghai-based steelworks to Zhanjiang.
- Wuhan Iron & Steel (Wugang) has decided to build and commission its cold strip mill ahead of its iron, steel and hot rolled coil making facilities in Guangxi Province. In July 2013, the company held a ground-breaking ceremony for the cold strip mill, which is expected to be commissioned in the first half of 2015. Platts Steel Business Briefing (Platts, 2013c) expects that the company will be able to ship its cold rolled products to southern consumers almost a year before the Zhanjiang steelworks is able to, but Wugang would have to source hot band for the mill from its Wuhan-based steelworks or other local mills, making it more costly.
- In Shandong Province, on the eastern coast of China, state-owned Shandong Iron and Steel (Shangang) formally started construction work on its Rizhao steel project in June 2013, having received approval for the project from the National Development and Reform Commission (NDRC) in April 2013. The steelworks will have a capacity of 8.5 mmt for crude steel production, with two 5 100 m³ blast furnaces and four converters, with accompanying hot and cold strip mills. Although this project was conditional on it absorbing Rigang, it has been reported that no progress has been made so far towards any merger.

30. **India** has experienced rapid growth in steelmaking capacity over the past decade in line with growing demand. Convergence of the country's very low per-capita consumption towards the higher levels found in more developed economies would result in significantly higher steel consumption.¹⁵ Significant amounts of new production capacity are scheduled to come on stream in the next few years, though there have been severe delays to several planned greenfield projects owing to local opposition to the acquisition of land by the relevant steel companies. Based on conservative estimates, the country's steelmaking

¹⁵

The World Steel Association reported that India's apparent steel consumption per capita (on a finished steel basis) was 56.9 kg in 2012. According to Kohinoor Steel's HP, rural steel consumption in India remains at around 2 kg per capita per annum.

capacity reached 100 mmt in 2013 and is likely to exceed 120 mmt by 2015. By 2025-26, the government of India forecasts its steelmaking capacity will increase to 300 mmt, based on a premise that India's steel demand increases to 233 mmt in the same period.¹⁶ Apart from land acquisition issues, securing a captive raw material source has also become a significant issue in the steel industry. Tightened controls over banned iron ore mining and transportation have made it difficult to procure iron ore within India, despite the country's vast iron ore resources.¹⁷

31. Projects in India include those by state-owned steelmakers as well as some major private companies:

- To boost its steelmaking capacity, state-owned Steel Authority of India Ltd (SAIL) has launched a strategic plan, called Vision 2025, which aims to increase its steelmaking capacity to 55 mmt by 2025, in line with the 300 mmt of national production capacity envisaged by that time. On 10 August 2013, the steelmaker started its new blast furnace, which is the largest blast furnace in India with an inner volume of 4 060 m³, at its Rourkela plant in Odisha State (former Orissa). At its IISCO works in West Bengal State, the company is expected to commission a 4 060 m³ blast furnace in 2014-15, and a 4 060 m³ blast furnace will be installed at its Bhilai plant in Chhattisgarh by 2014-15.
- State-owned Rashtriya Ispat Nigam Limited (RINL) is aiming to increase its capacity to 20 mmt by 2020. In April 2012, the company fired up its third blast furnace (with an inner volume of 3 814 m³) at its Visakhapatnam works and has started expanding its two older blast furnaces.
- India's largest private steel producer, Tata Steel, has completed the brownfield expansion project at its Jamshedpur plant. The company began construction of the Kalinganagar works in Odisha in January 2011 and expects to commission the first phase of its integrated mill by 2014-15. The steelworks will have a 4 300 m³ blast furnace with an annual capacity of 3.2 mmt, two converters (3.1 mmt), a continuous slab caster (3.0 mmt) and a hot strip mill (5.5 mmt). In the second phase of the project, the company will increase its capacity at the Kalinganagar plant to 6 mmt.

32. In **Indonesia**, the government and the steel industry have been trying to advance key projects involving partnerships between large steelmakers. In Cilegon, a major coastal industrial city in Banten province, PT Krakatau POSCO (PTKP) formally blew-in its first blast furnace on 20 December 2013. In addition to this project, investment in new steelmaking capacity by Chinese steelmakers is also taking place in view of relatively favourable demand prospects in the country. They include:

- Wuhan Iron & Steel Corporation will invest USD 5 billion to build an integrated mill in Indonesia, which will produce steel for the automotive and shipbuilding industries, among others. This plant will have 5 mmt of capacity and some of that output will be exported.

¹⁶ On 5 February 2013, the Indian government revealed a draft of the National Steel Policy 2012 in order to reflect the changes in domestic and global economic situation since the last steel policy of 2005.

¹⁷ According to data compiled by UNCTAD, iron ore exports in India have declined from 93.7 mmt in 2007 to 18.4 mmt in 2012, while iron ore imports have been increasing since 2009.

- PT Gunung Gahapi Nisco Indonesia, a joint venture between Indonesian steel maker PT Gunung Gahapi Sakti and China's Nanjing Iron and Steel, has started construction of a steel mill with a capacity of 1 mmt in Medan, North Sumatra.¹⁸

33. In **Viet Nam**, expectations of strong steel demand growth have attracted many foreign investors. Viet Nam's crude steel output has grown swiftly over the past decade, albeit from a low level, and has recently reached more than 5 mmt annually. According to Viet Nam's "Master Plan" for the development of the steel industry, production is targeted to reach 40 mmt of steel billets by 2025 (Ministry of Industry and Trade of Vietnam, 2013). Regarded as a strategic industry for economic development, steel is a key industry in the context of the Master Plan. However, Viet Nam News (Viet Nam News, 2013) has reported some difficulties in obtaining loans to build the new steel plants and to upgrade existing facilities. In some cases, steel enterprises have been required to clarify specific conditions to be eligible for credit. In addition to financing issues, power shortages are also creating significant challenges.

34. In Viet Nam, there are currently no domestic producers of hot-rolled sheet/coil (OECD, 2013b). Many new integrated steel projects for HRC, backed by foreign investors, have been announced in recent years, including:

- Formosa Ha Tinh Steel, a joint venture between Formosa Plastics Group and China Steel Corporation (CSC), held a ground breaking ceremony for the project in Ha Tinh Province in December 2012. Construction on the No. 1 blast furnace is on schedule, with the 3.5 mmt furnace to be fired around the end of May 2015. Two more furnaces of the same capacity are expected to start around May 2016 and May 2017, respectively, yielding a combined capacity of 10.5 mmt.¹⁹ Japan's Mitsubishi-Hitachi Metals Machinery will supply a large-scale hot strip mill with a capacity of 5.3 mmt.
- The E-United Group, a Chinese Taipei corporate group, plans to construct a new integrated steelworks, with 3.5 mmt of crude steel capacity, at Dung Quat industrial park in Quang Ngai Province, located on the south-central coast of Viet Nam. The plant will focus on producing hot-rolled steel, most of which is expected to be supplied to downstream steel operators in Viet Nam.
- Tata Steel had earlier planned to launch a 4.5 mmt hot rolled coil project in the province of Ha Tinh, through a joint venture with Vietnam Steel Corporation and Vietnam Cement Industries Corporation. In 2013, it was reported that the company abandoned the project to build a greenfield integrated steel mill in Viet Nam.

Oceania

35. There are few investments which are expected to affect steelmaking capacity in this region. A few years ago, an integrated steel plant project, aimed at supplying slabs and billets to Asia, was launched at Gladstone in the state of Queensland, **Australia**. In December 2010, Boulder Steel and China's MCCI signed a Memorandum of Understanding (MoU), to jointly advance the Gladstone Steel Plant Project (GSPP). The capacity of the plant will be 2.5 mmt (phase 1), after which it is expected to double its capacity to 5 mmt in phase 2. However, Boulder faced so-called "voluntary administration" (an insolvency procedure) after running out of cash in July 2013. Platts Steel Business Briefing reported in February 2014

¹⁸ In addition to these two projects, PT Resteel Industry Indonesia, a joint venture between Indonesian steelmaker PT Trinus Group and China's private steelmaker Shanxi Haixin Iron and Steel Group Co. Ltd., plans to build a USD 500 million steel mill with a capacity of 0.5 mmt in Batam, Riau Islands in 2014.

¹⁹ In the project's second phase, the company plans to build another three blast furnaces with a total capacity of 12 mmt, which will take the entire project's capacity to 22.5 mmt.

(Platts, 2014c) that this project looks like being revived after creditors voted in favour of a deed of company arrangement.

36. Table 1 below summarises the change in crude steelmaking capacity from 2013 until 2015, by region, taking into account some of the investment projects outlined in the annex tables of this document.²⁰ As shown in the table, the region with the largest expected increase in capacity is Asia, followed by the Middle East, NAFTA, Latin America and Africa.

Table 1. Change in steelmaking capacity

Unit: million tonnes

	Capacity 2013 (A)	Capacity 2015 (B)	Changes	
			(B-A)	(B/A %)
Europe	289.5	291.2	1.7	0.6
CIS	148.1	149.0	0.9	0.6
NAFTA	160.8	167.7	6.9	4.3
Latin America	69.0	75.4	6.3	9.2
Africa	37.5	40.6	3.1	8.3
Middle East	48.5	65.4	17.0	35.0
Asia	1403.9	1485.1	81.2	5.8
China	989.9	1039.9	50.0	5.1
Other Asia	414.0	445.2	31.2	7.5
Oceania	9.1	9.1	0.0	0.0
Total	2166.3	2283.5	117.2	5.4

Source: OECD Secretariat.

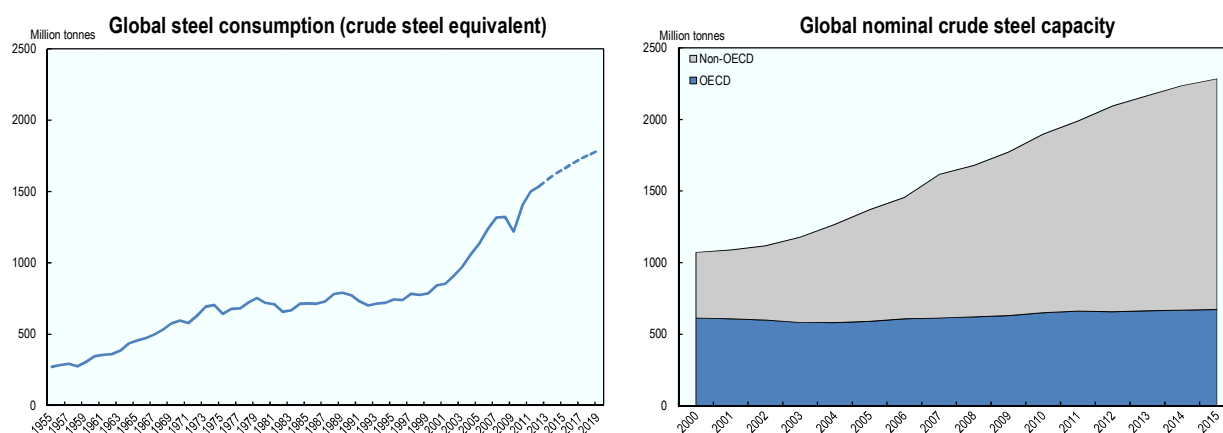
3. Global capacity and regional developments

37. Global steel demand has increased rapidly over the past decade (at an average annual rate of 5.4% in crude steel equivalent terms). In 2012, world demand reached a record high level of 1.54 billion tonnes, according to data from the World Steel Association. Most of the growth in steel demand has occurred in non-OECD economies, particularly in Asia. The share of non-OECD economies in global steel consumption was 69.9% in 2012, i.e. 22.2 percentage points higher than 10 years earlier. Global steel demand is expected to increase further, particularly in developing economies that have the potential to increase investments in infrastructure activity such as bridges, highways, airports, seaports, railways and electricity.

38. Figure 1 provides a steel demand scenario by the Bureau of Resources and Energy Economics (BREE), suggesting that global steel demand (in crude steel equivalent) could increase from 1.59 billion tonnes in 2013 to 1.79 billion tonnes in 2019. Global steelmaking capacity (nominal) is estimated to have been 2.17 billion tonnes in 2013, according to the Secretariat's calculations. BREE's forecast implies that the worldwide nominal excess in 2013 is therefore around 580 million metric tonnes (mmt), though in effective terms, the excess is much less. Global nominal steelmaking capacity is forecast to grow further, to 2.28 billion tonnes by 2015, with the share of non-OECD economies reaching approximately 70.6% of this amount.

²⁰

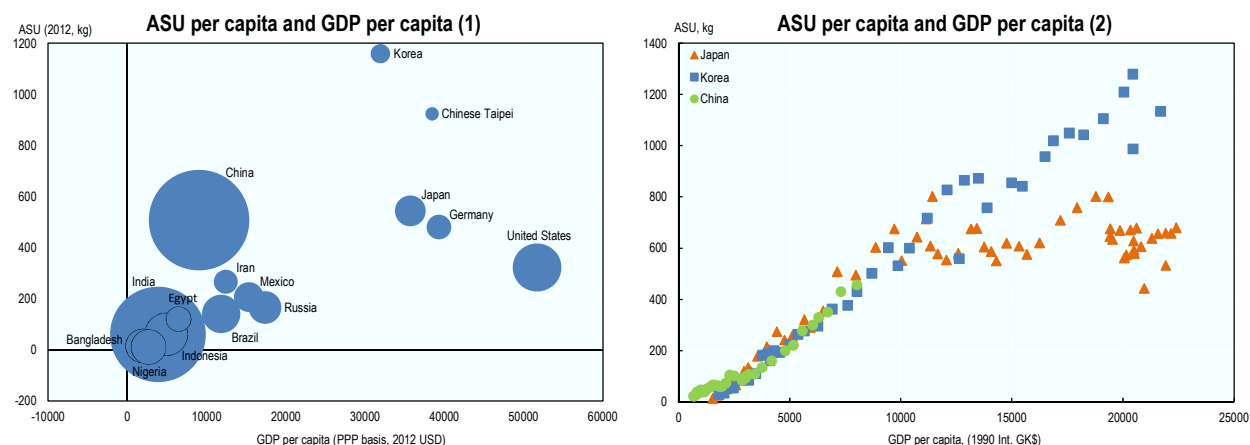
It should be noted that some projects listed in the annex table have been announced, but are not likely to come on stream. In calculating future capacity, only those projects likely to come on stream have been taken into account.

Figure 1. Global steel consumption and global nominal crude steel capacity

Sources: The World Steel Association and the Bureau of Resources and Energy Economics (for consumption) and OECD Secretariat (for capacity).

Self-sufficiency in steel production: how have trends changed in recent years?

39. Many developing economies should eventually serve as growth markets for steel demand. Economies with large populations, such as Indonesia, India and many African nations, all have low per-capita steel consumption levels and thus also the potential for experiencing growth in steel demand in the long term (OECD, 2013a). Steel consumption per capita in those economies is expected to continue to increase as average incomes rise (Figure 2). Many of these economies have been aiming to increase their so-called “self-sufficiency rates” (domestic production as a share of national steel consumption) and to improve their balance of trade.

Figure 2. Apparent steel consumption (ASU) per capita (crude steel basis) and income per capita

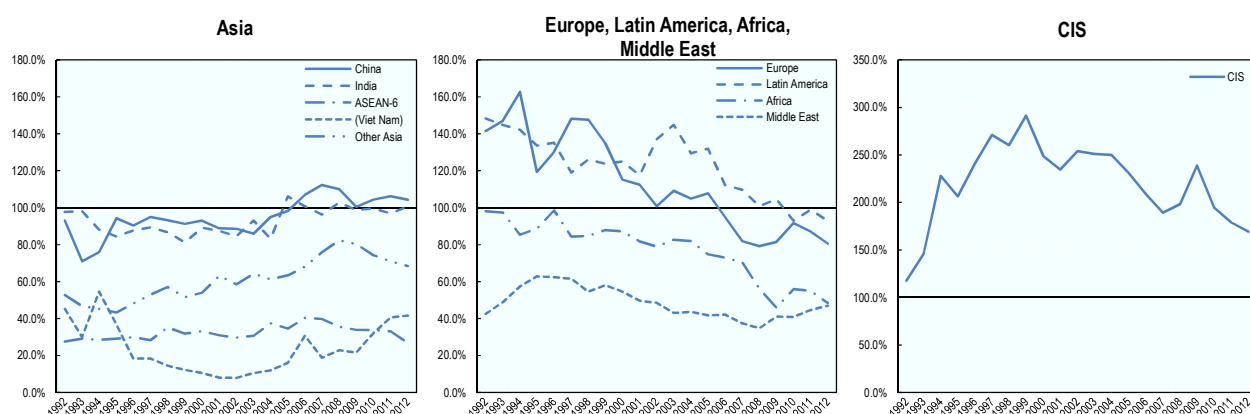
Note: Bubble sizes represent population.

Sources: The World Steel Association (for consumption) and International Monetary Fund and Angus Maddison (for GDP per capita).

40. Figure 3 displays self-sufficiency rates (the share of domestic production in steel demand, in per cent) in non-OECD economies over the past decade. In Asia, self-sufficiency rates in both China and India have been increasing in line with their rapid capacity expansion. In contrast, Southeast Asian economies

have some of the lowest self-sufficiency rates; the ASEAN-6²¹ average self-sufficiency rate dropped below 30% in 2012, indicating a greater reliance on imported steel. Looking at other regional trends, Latin America's self-sufficiency rate has been on a decreasing trend over the past several years, as steel imports have increased strongly. Indeed, the region has recently passed from being a net exporter to a net importer of finished steel (ALACERO, 2013). Although the Middle East's self-sufficiency rate is still very low, it is on an upward trend, which is indicative of significant capital investment activity in the region. The CIS region has a high self-sufficiency rate of approximately 170%, reflecting the high degree of export orientation of steel producers in this region. Nevertheless, the CIS self-sufficiency rate has been declining since 2010.

Figure 3. Self-sufficiency rates (crude steel) in non-OECD economies



Notes: CIS denotes the Commonwealth of Independent States.

Source: OECD calculations based on data from the World Steel Association.

A comparison of regional capacity trends during 2000-2015

41. As discussed above, global steelmaking capacity is likely to continue increasing in the period to 2015. However, regional differences are very large. Figure 4 compares the evolution of steelmaking capacity by region using indices (2000=100), based on the OECD Secretariat's monitoring work on capacity and taking into account the projects in the annex tables. Summary of key developments is provided below:

- In the region "other Europe," crude steelmaking capacity has been growing steadily, expanding by more than 100% since 2000. Steelmaking capacity in the region is forecast to increase to 59.9 mmt by 2015. This is because Turkey has experienced a sharp increase in capacity in the past ten years as local producers make efforts to better meet growing demand from steel-using industries such as the construction and automotive sectors.
- In the CIS region, where modernisation of the steel industry is currently underway, several mini-mill projects have been announced, supported by the numerous construction projects. In the Russian Federation, many mini-mill projects are expected to come on stream in the next few years, and thus the share of EAF production in the country's total steel output is expected to continue to grow further. As a consequence of these projects, the region's crude steel capacity is projected to increase to 149.0 mmt by 2015.

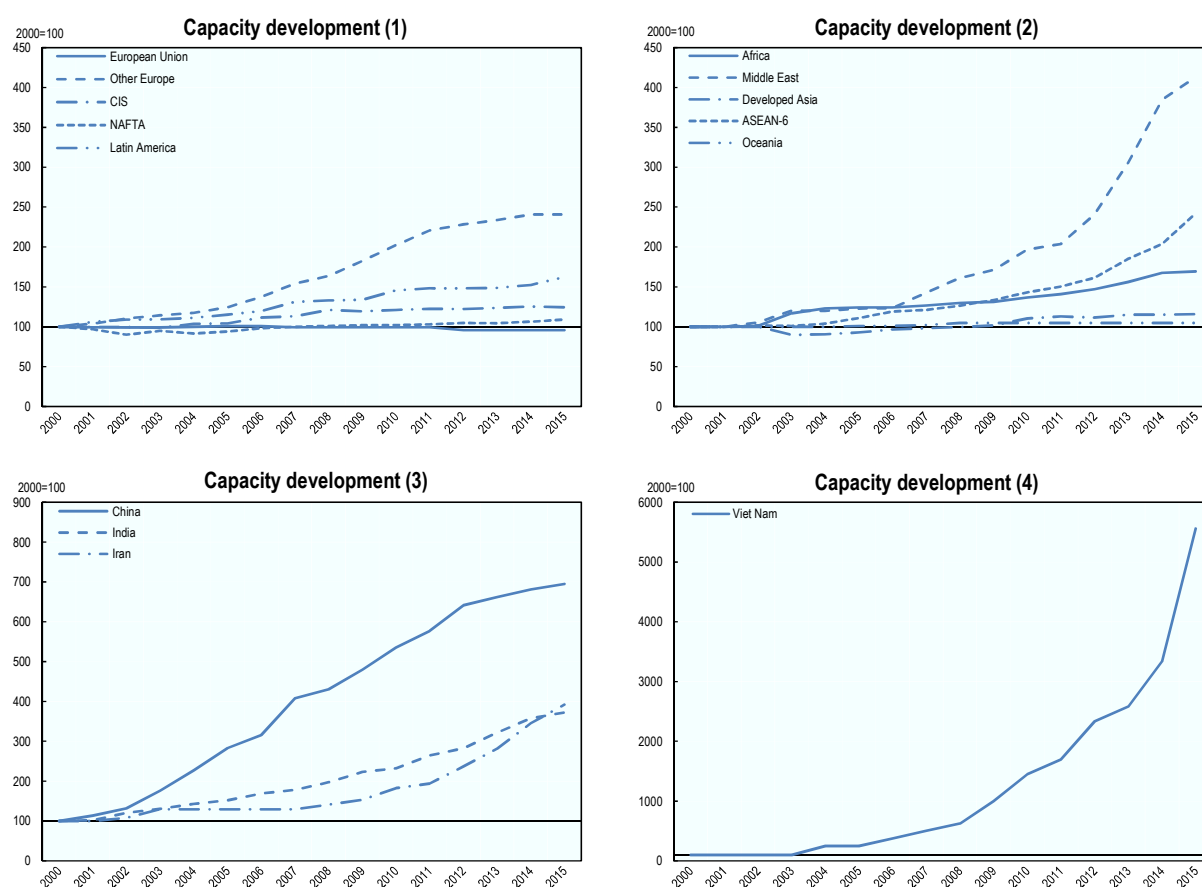
²¹

ASEAN-6 in this document refers to Indonesia, Malaysia, the Philippines, Thailand, Singapore and Viet Nam.

- Latin America's steelmaking capacity is forecast to increase gradually to 75.4 mmt in 2015, owing to several upstream expansion projects in Brazil. By 2015, crude steelmaking capacity in Brazil is likely to exceed 50 mmt, owing to some slab-for-export projects and long-product mill projects.
- In Africa, the most significant capacity increase will occur in North Africa, particularly in Egypt. In North Africa, several DRI-based mini-mill projects have been planned. By 2015, steelmaking capacity in Egypt is expected to exceed 10 mmt and the total capacity in Africa is projected to increase to 40.6 mmt.
- In the Middle East, a significant net importer of steel, steelmaking capacity is growing at a fast rate and is projected to increase by a cumulative 313.1% to 65.4 mmt between 2000 and 2015. In terms of volume, the largest expansion is expected to occur in Iran, which is trying to become more self-sufficient in steel production. Saudi Arabia's capacity is also expected to grow further, supported by efforts to offset billet imports. Iraq is likely to expand its steelmaking capacity in the period to 2015, as the country attracts private investments into various sectors, including steel. In addition, steelmaking companies have started to emerge in economies such as Bahrain and Oman since 2000.
- As a consequence of several investments projects, ASEAN-6's steelmaking capacity is expected to continue to increase to a level of 56.1 mmt by 2015. Viet Nam is now the fastest growing steelmaking economy (although capacity growth has occurred from a low point of departure), with average annual growth in capacity of almost 40% between 2000 and 2015. Viet Nam's crude steelmaking capacity is expected to reach 22.2 mmt by 2015.
- In Developed Asia,²² there has been a steady increase in steelmaking capacity, owing to the commissioning of large scale blast furnaces in Korea and Chinese Taipei. As a result, production capacity in the region is forecast to increase to 246.9 mmt by 2015.
- Steelmaking capacity in China was estimated to have reached 959.9 mmt in 2012 and is projected to exceed 1 billion tonnes between 2014 and 2015. The economy's share of world steelmaking capacity has increased from 14% in 2000 to 45.5% in 2012. The growth rate of capacity in China is nevertheless slowing as a consequence of government policy measures aimed at constraining the industry's expansion. However, the country is expected to continue to lead the capacity expansion in volume terms, as construction of some very large coastal integrated steel plants advance.
- Indian steelmaking capacity has been increasing steadily over the past decade, supported by state-owned and private company investments. The country's crude steelmaking capacity was estimated to have reached more than 100 mmt in 2013 and is expected to continue to increase to a level of 125.1 mmt by 2015. However, there are risks associated with these projections, related mainly to how successfully greenfield projects will come on stream given issues related to the acquisition of land, the granting of environmental and forest clearances, the availability of raw materials and the lack of infrastructure.

²²

Developed Asia denotes the aggregate of Japan, Korea and Chinese Taipei.

Figure 4. The development of steelmaking capacity by region and selected economies (2000=100)

Source: OECD Secretariat.

4. Factors that can advance or hinder investment activity in the steel industry

42. Although a large number of steel plant projects have been announced around the world, various factors could play a role in either advancing or hindering these investment projects. Some of the main issues are briefly discussed below.

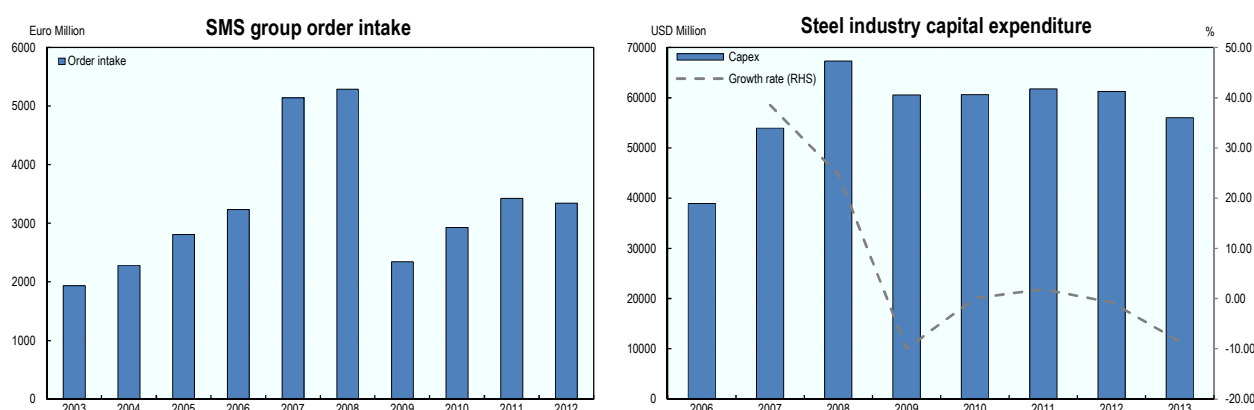
- Economic conditions:** The steel industry is pro-cyclical in nature (OECD, 2013b). When operating in open and competitive markets, investment activity is linked closely to the macroeconomic situation, and some industry observers believe that the industry's level of capital expenditure is a barometer of economic health (of the region where the steelmaker operates) and steel industry sentiment about the future outlook (SBB Insight, 2014). Events during the financial crisis support this notion; investment activity in the steel industry weakened significantly, with many steel projects either halted or cancelled, in the aftermath of the crisis. Box 2 describes the order intake of a major metallurgical plant maker, showing that the plant maker's orders plummeted during the financial crisis. Currently, excess capacity is making steel mills more cautious about large scale capital investments and some large steelmakers have reduced their capital expenditure budgets, though the current level of capital expenditure seems higher than the level prevailing in 2007 (SBB Insight, 2014).

- **Infrastructure:** The level and quality of infrastructure play a significant role in investment activity in the steel industry. To build a steel plant, reliable supplies of power and water are needed, as are ports, roads and railways. These have been major impediments particularly in some developing economies (Kawabata, 2005). For example, India places great emphasis in its (draft) National Steel Policy of 2012 on the need to improve its infrastructure, with transportation, energy, land and water infrastructure needed in and around the country's centers of steel activity during the next 20-25 years (Government of India, Ministry of Steel, 2013). Furthermore, insufficient power generation capacity is one of the major obstacles to building a steel plant in some regions such as the Middle East and Africa, and this may hamper future growth in regional steel production capacity.
- **Financial resources:** Securing financial resources is, of course, critical for investment, given the significant amounts of resources needed in order to build a steel plant (see Box 3). For example, some of the projects in Iran have been facing difficulties in procuring financial resources and most projects have been facing delays. Financial information is therefore increasingly important, as it can help in evaluating the likelihood of completion of each project. Generally, if access to land and finance is secured, and equipment suppliers are confirmed, the project is expected to come on stream. However, publically available information on financial resources for each project is difficult to come by, though some steel media reports sometimes provide this information. In some of the projects examined in this document, export credit agencies play a role by providing services including loans, guarantees and insurance to the companies' foreign customers.
- **Access to raw materials:** Proximity to key raw materials such as iron ore is another crucial factor when companies consider building a steel plant. Although India is one of the leading iron ore producers in the world, raw materials security has been one of the major recent obstacles that steel capacity expansion projects (both greenfield and brownfield) have faced. Some of the projects in the country are currently on hold until there is clarity about iron ore supply for the projects. Even if steelmakers succeed in securing the land they need, there is no guaranteeing they will get access to captive iron ore leases.
- **Types of investments (brownfield or greenfield):** According to SBB Insight (2008), a greenfield project has several advantages: Steelmakers can choose the most favorable location to capture market growth, and then design the steelworks for optimum size, layout, process efficiency and possible expansion. Moreover, greenfield projects will often get incentives from local or regional authorities as they generate new employment. However, the approval process (such as securing capital, planning and environmental clearance) of a greenfield investment is stricter than brownfield investments, and greenfield projects usually have larger social and environmental impacts.
- **Types of investments (with or without corporate partners):** In some regions, some of the key projects involve partnerships between large steelmakers and local companies, which have advantages not only in terms of spreading the risks of the project but also for accessing resources (related to technology, management know-how, experienced technicians and financial resources).

Box 2. SMS group order intake and Steel industry capital expenditure

Germany-based SMS group's order intake registered a decline of more than 50% in 2009 and its intake in 2012 is still almost 40% below the peak observed in 2008. According to data from Accenture, compiled by Platts Steel Business Briefing, capital expenditure based on 74 companies decreased by 16.7% between 2008 and 2013, but was slightly higher in 2013 compared to 2007.

The plant-making business also appears to be facing difficulty. Japan's Mitsubishi Heavy Industries and Germany's Siemens Metals Technology announced on 7 May 2014 that they decided to combine their metallurgical plant making businesses. Their announcement notes: *"Going forward, the global iron and steel industry, beset by adverse factors including overcapacity, increasing material costs and declining product prices, is projected to continue exercising restraint toward new capital investments. Against this backdrop, the agreement on the new JV was achieved on the back of the meshing of the two partners' respective aims"* (Mitsubishi Heavy Industries, 2014).



Note: Based on a sample of 74 major steel producers, service centers and scrap companies.

Sources: SMS group and Platts Steel Business Briefing, 15 May 2014 (SBB Insight issue 201).

Box 3. Greenfield investment costs: examples of a mini-mill and integrated plant in the United States (USD million)

It is well known that large amounts of capital are needed to build a steelworks. EAF plants require just a fraction of the resources relative to large integrated plants. A relatively old analysis by D'Costa (1999) indicates that, to construct a 3.4 mmt integrated plant, the total investment involved is around USD 2.7 billion. Steel mills also face considerable variable costs, such as maintenance costs.

Process	BF/BOF	EAF/thin slab
DRI	-	100
HBI	-	20
Coke ovens	330	-
PCI facilities	22	-
Blast furnace	560	-
BOF	680	-
EAF	-	150
Continuous casting machine (Conventional)	255	NA
Continuous casting machine (Thin-slab)	NA	40
Hot strip mill	NA	140
Total		
With DRI	-	430
With HBI	-	450
Without DRI/HBI	2697	330
Infrastructure costs included above	1000	120
Pollution control costs included in infrastructure	255	35

Source: P. D'Costa (1999).

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ANNEX: FUTURE CAPITAL INVESTMENT PROJECTS²³

Abbreviations used for equipment are:

DR	Direct reduction unit
BF	Blast furnace
LD	LD Basic oxygen furnace
EF	Electric-arc furnace
Steelmkg	Unspecific steelmaking unit
CC	Continuous casting machine, of which
	- billet
	- round billet
	- bloom
	- slab
	- thin slab
STR	Bar, section, shape, beam or angle mill
WR	Wire rod mill
Rolling	Unspecific rolling mill
Plate	Plate mill
Hot	Hot strip mill
Cold	Cold strip mill
Silicon	Electrical sheet/coil line
HGL	Hot-dip galvanising line
EGL	Electro galvanising line
Tin plate	Tin plate
Ptg	Painting line (colour coating)
ERW	Electric-resistance welded pipe mill
SAW	Submerged arc welded pipe mill
SMLS	Seamless tube mill

²³

This list shows projects with a capacity greater than 1 million tonnes of steel per year of upstream facilities. The unit used for capacity is thousands of tonnes per year. The volume of blast furnaces refers to the inner volume. In some cases, the information might have become outdated during the course of collecting the data (in terms of the status of the project).

DSTI/SU/SC(2014)2

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Europe	Czech Republic	Evrz Vitkovice Steel (EVS)	Ostrava	EF	x 1	n/a	Under Planning	-	1000	-	-	n/a	150	●EVS planned to switch its BOF to an EAF with an estimated capacity of 1 million tpy (tonnes per year) (Platts 18-Jul-11).
	Turkey	Habas	Aliaga, Izmir	EF	n/a	n/a	Under Planning	-	-	3000	-	n/a	n/a	●Habas plans to build an electric steelmaking complex with a capacity of 3 million tpy. Construction is expected to begin in early 2014 with commissioning of the unit to follow in 2015 (Metal Expert 07-Nov-13).
				CC (slab)	x 1	-	Under Construction	-	2500	-	-	SMS Siemag	n/a	●The company has ordered a slab caster and a hot strip mill from SMS Siemag to enter the flat product market (Platts 09-May-12).
				Hot	x 1	-	Under Construction	-	2500	-	-	SMS Siemag	n/a	
		Icdas	Canakkale	BF	n/a	n/a	Under Planning	-	-	-	2000	n/a	n/a	●Icdas is considering to build a blast furnace and complete the projects within two years (Metal Expert 15-Jan-14).
		Kardemir	Karabuk	BF	x 1	1280 m3	Under Construction	-	1200	-	-	Siemens-VAI	80	●Kardemir has signed 10 year credit facility agreement with Turkish bank Turkiye Garanti Bankasi to finance its investment in its blast furnace No. 5 (Platts 06-Dec-11).
				LD	x 3	Expansion x 2 120 (T) x 1	Under Construction	-	1700	-	-	SMS Siemag	n/a	●The company has secured financing for the expansion of its converters. The Euro 21.2 million (USD 27.8 million) credit facility will be supplied by Germany's KfW IPEX Bank (Platts 06-May-13).
				CC (bloom)	x 1	Billet Bloom	Under Construction	-	1250	-	-	SMS Concast	n/a	●The two installed converters are to be increased from 67 to 121 m3 and a new third converter is to be supplied (SMS Siemag HP 24-Sep-12).
				STR	x 1	Bar Wire rod	Under Construction	-	-	700	-	SMS Meer	n/a	
			Filyos, Zonguldak	Steelmkg	n/a	n/a	Under Planning	-	-	-	6000	n/a	n/a	●On 2 April 2014, Kardemir revealed its plan to build a new plant with a total capacity of 6 million tpy (Platts 04-Apr-14).
		Koc Celik	South Turkey	EF	x 1	n/a	Under Construction	1000	-	-	-	Cansan Metalurji	39	●Koc Celik is expected to start its electric arc furnace that bought from Cansan Metalurji by the end of April 2013 (Platts 19-Mar-13).
		Mescier Steel	Bartın	Steelmkg	n/a	EF	Under Planning	1000	-	-	-	n/a	n/a	●Mescier Steel planned to start construction of its own steelmaking complex with a capacity of 1 million tpy in 2013 (Arab Steel 24-Dec-12).
		Yesilyurt	Samsun	EF	x 1	100 (T)	Under Planning	1300	-	-	-	CVS	n/a	●Yesilyurt will install an EAF to lower energy costs as well as a high-capacity shear for scrap processing (Platts 29-Jan-13).
		Yolbulan Bastug	Osmaniye	Steelmkg	n/a	n/a	Under Planning	-	-	-	2000	n/a	n/a	●Yolbulan Bastug is planning to double its liquid steel capacity to 4 million tpy in the coming years (Platts 25-Jul-13).
				STR	x 2	Bar Wire rod	Under Construction	-	1330	-	-	CVS	n/a	●The company's new rolling mills are expected to commission in 2014 (Industeel 03-Feb-14).
CIS	Kazakhstan	Eurasian Natural Resources Corp	Kostanay	DR	x 1	HBI	Under Planning	-	-	-	1800	n/a	650	●According to the company's report, the plant site has been prepared and the estimated completion date is 2019 (ENRC HP 23-Apr-12).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
CIS	Russian Federation	Abinsk Electrometallurgical Plant	Abinsk, Krasnodar	EF	x 1	130 (T)	Under Construction	1300	-	-	-	CVS	n/a	<ul style="list-style-type: none"> Abinsk Electrometallurgical Plant aims to complete hot testing and commission its newly built steelmaking shop in November 2013. The melting shop – with a 130-mt EAF and billet caster supplied by Turkish firm CVS – is designed to produce 1.3 million tpy (Platts 06-Nov-13). The company signed an agreement with Italy's Danieli for the supply of a second rolling mill designed to make up to 600,000 tpy of wire rod mill (Platts 06-Nov-13).
				CC (billet)	x 1	-	Under Construction	1300	-	-	-	CVS	n/a	
				STR	x 1	-	Under Construction	550 (2011)	-	-	-	n/a	n/a	
				WR	x 1	-	Under Planning	-	-	600	-	Danieli	n/a	
		Chusovoy Metallurgical Works	Chusovoy	EF	x 1	n/a	Under Planning	-	-	-	1000	n/a	n/a	<ul style="list-style-type: none"> Several years ago, Metallurgical Investment planned to build an EAF to replace its OHFs (Platts 17-Feb-12).
		Maxi-Invest	Leninogorsk, Tatarstan	EF	x 1	120 (T)	Under Construction	-	1200	-	-	Fuchs	n/a	<ul style="list-style-type: none"> Maxi-Invest is in the process of building two new mini-mills, in Kovrov in the Vladimir region and in Leninogorsk in the Russian republic of Tatarstan (Platts 16-Sep-10).
				CC (billet)	x 1	-	Under Construction	-	1000	-	-	Danieli	n/a	<ul style="list-style-type: none"> The company began construction of the long products mill in Tatarstan, and planned to commission it in 2014. The works will have a capacity of 1.2 million tpy for crude steel (Platts 09-Sep-11).
				STR	x 1	Section	Under Construction	-	1000	-	-	Danieli	n/a	
			Kovrov, Vladimir	EF	x 1	120 (T)	Under Construction	1200	-	-	-	Fuchs	n/a	<ul style="list-style-type: none"> Maxi-Invest has begun construction of a longs mill in central Russia and planned to commission it in December 2013 (Platts 12-Aug-11).
				CC (billet)	x 1	-	Under Construction	1000	-	-	-	Fuchs	n/a	<ul style="list-style-type: none"> The construction of the new mini-mill was suspended in 2012 due to economic recession and its financial straits. However, this project may resume in 2013 as the company resolves its financial difficulties and reaffirms the project's feasibility (Platts 05-Mar-13).
				STR	x 1	Section	Under Construction	1000	-	-	-	Danieli	n/a	
		Metalloinvest	LGOK, Belgorod	DR	x 1	HBI	Under Construction	-	-	-	1800	Siemens-VAI Midrex	850	<ul style="list-style-type: none"> The new plant will be the largest HBI module in the world (Metalloinvest HP 08-Apr-13).
		Nizhny Tagil Iron & Steel (Evraz Group)	Nizhny Tagil, Sverdlovsk	LD	x 1	n/a	Under Planning	-	-	-	3500	Danieli	n/a	<ul style="list-style-type: none"> Nizhny Tagil Iron & Steel is considering expanding its crude steel capacity by building a second converter shop (Platts 29-Oct-10).
				CC (billet)	x 2	-	Under Planning	-	-	-	2000	Danieli	n/a	<ul style="list-style-type: none"> Parent company Evraz plans to undertake financing by around first half of 2014 (Metal Expert 6-Aug-13).
				CC (slab)	x 1	-	Under Planning	-	-	-	1500	Danieli	n/a	<ul style="list-style-type: none"> The company is expected to order Danieli to supply the equipments (Metal Expert 6-Aug-13).
		Oskol Elektrometallurgical Plant	Stary Oskol, Belgorod	DR	n/a	HBI	Under Planning	-	-	-	1800	n/a	n/a	<ul style="list-style-type: none"> Several years ago, Oskol Steel Plant (OEMK) planned to install a third hot briquetted iron unit (Platts 15-Jun-11).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
CIS	Russian Federation	Novolipetsk Steel (NLMK)	Vorsino, Kaluga	EF	x 1	120 (T)	Operating	1500	-	-	-	Siemens-VAI	300	<ul style="list-style-type: none"> On 23 July 2013, NLMK held a grand opening ceremony for NLMK Kaluga's EAF mill in Kaluga Region (NLMK HP 23-Jul-13). The company plans to expand its rolling capacity by 600,000 tpy in a later stage (NLMK HP 23-Jul-13). The plant is designed to supply high quality products to the deficit in the long steel supply market of Central Russia which consumes over a third of long products in the country (SteelGURU 03-Jun-13).
				CC (billet)	x 1	-	Operating	900	-	-	-	Siemens-VAI		
				STR	x 1	Section	Operating	900	-	-	-	SMS Meer		
				STR	x 1	Section	Under Planning	-	-	-	600	n/a		
		Severstal	Balakovo, Saratow	EF	x 1	125 (T)	Operating	-	1000	-	-	Siemens-VAI	700	<ul style="list-style-type: none"> Severstal begun rolling operations at its 1 million tpy long products mini-mill in Balakovo in December 2013 (Platts 20-Dec-13). The company has begun testing the electric arc furnace since April 2014 (Platts 17-Apr-14). The volume of investments amounts to about USD 700 million (Severstal HP 30-Sep-10).
				CC (billet)	x 1	-	Operating	-	1000	-	-	Siemens-VAI		
				STR	x 1	Bar Wire rod	Operating	1000	-	-	-	Danieli		
		TMK Group	Taganrog, Rostov-on-Don	EF	x 1	135 (T)	Operating	1000	-	-	-	SMS Siemag	n/a	<ul style="list-style-type: none"> TMK Group commissioned its first EAF in 2013 and phased out steel production using OHF process (SMS Siemag HP 19-Nov-2013).
		Tula-Steel (KOKS Group)	Tulachermet	LD	x 1	160 (T)	Under Planning	-	-	-	1600	SMS Siemag	n/a	<ul style="list-style-type: none"> The project involves construction of a steel melting shop and of two rolling mills for long products (KOKS Group HP 21-Feb-14). Tula-Steel has ordered SMS Siemag to supply a steel melting and rolling plant. The company plans to build the plant by the end of 2016 (Platts 27-Feb-14).
				CC (billet)	x 1	-	Under Planning	-	-	-	1600	SMS Concast	n/a	
				STR	x 2	Bar Section	Under Planning	-	-	-	1500	SMS Meer	n/a	
	Ukraine	Alchevsk Iron & Steel Works	Alchevsk, Lugansk	BF	x 1	4450 m3	Under Construction	3220	-	-	-	n/a	n/a	<ul style="list-style-type: none"> Several years ago, Alchevsk Iron & Steel Works (Alchevsk) was building a new blast furnace (NET 29-Sep-09).
		Dneprovsky Metallurgical Plant	Dneprodzerzhinsk	BF	x 2	1640 m3 3000 m3	Under Planning	-	-	-	n/a	n/a	n/a	<ul style="list-style-type: none"> The steelworks was reported several years ago to plan by 2020 to increase its crude steel output to 7 million tpy (SteelOrbis 30-Apr-10). By 2020, DMKD was planning to construct two blast furnaces and a converter No. 3 (SteelOrbis 30-Apr-10).
				LD	x 1	n/a	Under Planning	-	-	-	3200	n/a	n/a	
		Donetsk Iron & Steel Works (DMZ)	Donetsk	EF	x 1	150 (T)	Under Construction	-	1500	-	-	Siemens-VAI	n/a	<ul style="list-style-type: none"> The startup of EAF is currently scheduled for some time the summer in 2014 (Platts 01-Apr-14). Once the new furnace is operational, the plant will start decommissioning the remaining OHFs (Platts 19-Dec-11).
				CC	x 1	Billet Slab	Under Construction	-	1500	-	-	Siemens-VAI	n/a	
		Metinvest Group	Azovstal Iron & Steel Works	LD	n/a	n/a	Under Planning	-	-	-	4100	Siemens-VAI	n/a	<ul style="list-style-type: none"> Metinvest plans to invest a total of USD 8 billion into its Azovstal and Ilyich plants to 2020 (MB 08-Feb-12). The company's crude steelmaking capacity at the plants is expected to rise to 16 million tpy, from its current 11.9 million tpy (MB 08-Feb-12).
			Ilyich Iron & Steel Works	LD	n/a	n/a	Under Planning	-	-	-		n/a	n/a	

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments		
CIS	Ukraine	Industrial Union of Donbass (IUD)	Dneprovsky	EF	n/a	n/a	Under Planning	-	1800	-	-	n/a	n/a	●This project involves 1.8 million tpy EAF and 1 million tpy billet caster. The company is expected to close 650k OH furnace (MBR capex Q4 2013). ●MBR reported that this project has yet financed and may be delayed (MBR capex Q4 2013).		
				CC (billet)	n/a	n/a	Under Planning	-	1000	-	-	n/a	n/a			
				STR	n/a	n/a	Under Planning	-	1000	-	-	Siemens-VAI	n/a			
NAFTA	Mexico	Altos Hornos de Mexico SA de CV (AHMSA)	Monclova, Coahuila	BF	x 1	1593 m3	Operating	1460 (2011)	-	-	-	n/a	1500	●Fénix project involves the installation of a new blast furnace, an electric arc furnace, a continuous casting and a second line of plate (AHMSA HP). ●Ahmsa's liquid steel capacity will rise to 5.5 million tpy following the mid-year startup of a new electric arc furnace (Platts 22-Jan-14). ●The total investment is USD 1.5 billion (Yieh Corp 15-Jul-13). ●The company expects to replace most of the country's plate imports through the commissioning of the new rolling mill (MB 30-Oct-12).		
				EF	x 1	150 (T)	Under Construction	-	1100	-	-	Siemens-VAI				
				CC (slab)	x 1	-	Operating	1090	-	-	-	Siemens-VAI				
				Plate	x 1	-	Operating	1000	-	-	-	n/a				
				Monclova	Steelmkg	n/a	n/a	Under Planning	-	-	-	3250	n/a	800	●The company will invest USD 800 million to build a third mill aimed at the car-making industry in Mexico (Platts 13-Sep-13).	
			Gerdau Corsa	Tlalnepantla	EF	x 1	120 (T)	Under Construction	-	-	1000	-	n/a	496	●Gerdau is resuming the project of BRL 1.1 billion to build a new plant in Mexico through its joint venture with Gerdau Corsa. Focused on the production of structural shapes, it will have a capacity of 1 million tpy of steel and 700,000 tpy of rolled products (Gerdau HP 6-Aug-12). ●The plant is expected to be online in 2015 (Platts 24-Feb-14).	
		CC (bloom)			x 1	-	Under Construction	-	-	1000	-	n/a				
		STR			x 1	Section	Under Construction	-	-	700	-	n/a				
			Talleres y Aceros (Tyasa)	Orizaba	DR	x 1	n/a	Operating	-	n/a	-	-	Siemens-VAI	n/a	●Talleres y Aceros (Tyasa) has begun operations at its new Siemens-supplied direct reduction steel equipment (Platts 16-May-14).	
		EF			x 1	100 (T)	Operating	-	1200	-	-	Siemens-VAI	200	●The Quantum electric arc furnace and billet caster were brought online in May 2014, with hot tests already completed (Platts 16-May-14). ●The equipment will add 1.2 million tpy to the steelmaker's semifinished steel capacity (Platts 16-May-14).		
		CC (billet)			x 1	-	Operating	-	1200	-	-	Siemens-VAI				
			United States	Big River Steel	Mississippi, Arkansas	Steelmkg	n/a	n/a	Under Planning	-	-	-	1700	n/a	1100	●On 29 January 2013, Big River Steel LLC announced plans to build a USD 1.1 billion steel mill in Mississippi County (Arkansas Business 29-Jan-13). ●Accordrding to MBR, the company plans to install rolling facilities for pipe market and electrical steels (MBR capex Q4 2013).
		Rolling				n/a	HRC, CRC	Under Planning	-	-	-	800	n/a			
				Essar Steel Minnesota	Nashwauk, Minnesota	DR	x 1	Hyl	Under Planning	-	-	-	2500	n/a	n/a	●Essar Steel Minnesota has received permits for DRI facilities in Minnesota (Platts 18-Jul-13).
	EF	x 2				n/a	Under Planning	-	-	-	2500	n/a	n/a	●The 2.5 million tpy complex will include a DRI plant, electric furnace shop and a slab caster (Platts 15-Mar-11).		
CC (slab)	x 1	-				Under Planning	-	-	-	2500	n/a	n/a				

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
NAFTA	United States	North Star BlueScope Steel	Delta, Ohio	DR	n/a	n/a	Under Planning	-	-	-	1000	n/a	n/a	●North Star BlueScope Steel is doing a feasibility study to add a DRI plant to its existing facility in Ohio (Platts 19-Dec-12).
		Nucor	Saint James Parish, Louisiana	DR	x 1	Hyl	Operating	2500	-	-	-	Tenova	750	●Nucor commissioned its DRI facility that is the largest single unit facility in the world on 24 December 2013 (Nucor HP 27-Dec-13).
				DR	x 1	Hyl	Under Planning	-	-	-	2500	n/a	n/a	●The company was reported to get permission for construction and operation of a second DRI facility in Louisiana (Platts 19-Apr-13).
		Republic Steel	Lorain, Ohio	EF	x 1	136 (T)	Operating	-	1000	-	-	SMS Concast	85	●Republic Steel has been granted tax and utility incentives worth about USD 5.9m for its planned USD 85.2m EAF project (Platts 29-Feb-12).
		US Steel	Jv with Republic Steel	DR	n/a	n/a	Under Planning	-	-	-	n/a	n/a	n/a	●US Steel is considering a direct reduced iron (DRI) joint venture with Republic Steel in Ohio (Steel First 01-May-13).
			Fairfield, Alabama	EF	n/a	n/a	Under Planning	-	-	-	1100	n/a	n/a	●US Steel plans to start construction its first electric arc furnace in late 2015. The EAF will replace the site's blast furnace (Platts 29-Jan-14).
		Voestalpine	Texas	DR	x 1	Midrex	Under Construction	-	-	-	2000	Siemens Midrex	712	●Voestalpine's 2 million tpy HBI facility in Texas is expected to begin producing the compacted form of DRI in 2016 (Platts 20-Mar-14).
Latin America	Bolivia	El Mutún iron and steel project	El Mutún, jv with Jindal Steel	Steelmkg	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	●Jindal Steel had been a jv partner in the 1.7 million tpy Mutún ore project until withdrawing from it in July 2012 (Platts 11-Feb-14).
			El Mutún, jv with HCME	Steelmkg	n/a	n/a	Under Planning	-	-	-	150	n/a	n/a	●China's HCME was selected by the Bolivian government to construct 150,000 tpy Bolivia's first steelmaking plant (Platts 11-Feb-14).
	Brazil	Baosteel CSV	Espirito Santo, jv with Vale	Steelmkg	n/a	Slab plant	Operation Suspended	-	-	-	-	n/a	n/a	●CSV project was a joint venture between Vale and Baosteel. This project was cancelled due to the global financial crisis (Tex Report, 2014).
		Companhia Siderúrgica do Mearim (CSM)	Maranhão	Steelmkg	n/a	n/a	Under Planning	-	-	-	3500	n/a	n/a	●The project of CSM is a greenfield slab project backed by Brazilian mining and energy group Aurizônia (Platts 03-Aug-10).
		Ternium	Superporto do Açú, Rio de Janeiro	Steelmkg	n/a	n/a	Under Planning	-	-	-	2500	n/a	3000	●Ternium has decided not to build either a steel mill or, alternatively, an iron ore pelletizing plant. In December 2013, Brazilian antitrust agency Cade approved the transfer of all shares of the steelmaking project to logistics company LLX with no restrictions (Platts 17-Dec-13).
				CC (slab)	n/a	-	Under Planning	-	-	-	2500	n/a		
		Usiminas	Santana do Paraíso, Minas Gerais	BF	n/a	n/a	Operation Suspended	-	-	-	-	n/a	7500	●Several years ago, Usiminas planned to build a greenfield slab mill in Santana do Paraíso, Minas Gerais state of Brazil (Platts 26-Oct-09). ●The project was indefinitely suspended in July 2009, based on uncertain global steel demand (Platts 26-Oct-09). ●MBR reported that this project has yet confirmed (MBR capex Q4 2013).
				LD	n/a	n/a	Operation Suspended	-	-	-	-	n/a		
				CC (slab)	n/a	n/a	Operation Suspended	-	-	-	-	n/a		
		Vale	Aços Laminados do Pará (ALPA), Pará	BF	n/a	n/a	Under Construction	-	-	-	2500	n/a	3200	●Work at the site of Aços Laminados do Pará (ALPA) stopped in mid-2012 after the federal government halted plans to improve port and navigation facilities on the Tocantins river (Platts 29-Apr-13). ●In March 2014, Brazil president Dilma Rousseff signed a decree to advance improvements to navigation facilities on the Tocantins River, necessary for the development of the project (Platts 24-Mar-14).
				Steelmkg	n/a	n/a	Under Construction	-	-	-	2500	n/a		
				CC (slab)	n/a	n/a	Under Construction	-	-	-	2500	n/a		

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments		
Latin America	Brazil	Vale	Companhia Siderúrgica do Pecém (CSP), Ceara (Phase 1)	BF	x 1	3800 m3	Under Construction	-	-	3000	-	POSCO E&C	4340	<ul style="list-style-type: none">●CSP is a joint venture of Vale (50%) and Korean Dongkuk (30%) and POSCO (20%) (Platts 30-Aug-13).●The total investment in CSP from all three partners may reach USD 5.1 billion (Platts 10-Oct-13).●Ceará state special export zone (ZPE) will grant CSP among others, advantages on shipments abroad (Platts 30-Aug-13).●This steelworks is expected to commission by the end of 2015 (Platts 04-Apr-14).		
				LD	x 2	300 (T)	Under Construction	-	-	3000	-	POSCO E&C				
				CC (slab)	x 1	-	Under Construction	-	-	3000	-	POSCO E&C				
			CSP, Ceara (Phase 2)	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a		5000	<ul style="list-style-type: none">●Vale has received the environmental licence necessary for the plant (MB 03-Mar-11).●The company continues to develop the Companhia Siderúrgica de Ubu (CSU) steel project and look for a majority partner (Platts 01-Feb-13).●The USD 5 billion project project has been hampered by an unfavorable economic outlook (Platts 24-Mar-14).
			Companhia Siderúrgica Ubu (CSU), Espírito Santo	BF	n/a	n/a	Under Planning	-	-	-	5000	n/a				
				Steelmkg	n/a	n/a	Under Planning	-	-	-	5000	n/a				
				CC (slab)	n/a	n/a	Under Planning	-	-	-	5000	n/a				
			Wuhan Iron & Steel Group	Rio de Janeiro, jv with EBX	Steelmkg	n/a	n/a	Operation Suspended	-	-	-	-	n/a		n/a	<ul style="list-style-type: none">●Wuhan Iron & Steel Group had suspended its integrated steelworks project in the Açú Port jointly developed with EBX (Platts 12-Nov-12).
			Ecuador	State-owned flat mill	Jv with Sinosteel	Steelmkg	n/a	Flat products	Under Planning	-	-	-	1000		n/a	1300
		Venezuela	Siderúrgica Nacional	Ciudad Piar, Bolivar (Phase 1)	EF	x 1	200 (T)	Under Construction	-	-	1550	-	SMS Siemag	3800	<ul style="list-style-type: none">●Total investments may reach USD 3.8 billion, of which USD 570 million would be loaned by Spanish bank BBVA (Platts 17-Jan-13).●Brazilian fund development bank, BNDES, will finance part of the project, as a result of a recent bilateral agreement between the countries (Platts 06-Sep-12).●In 2013, the government invested roughly USD 572 million and will allocate USD 590 million in 2014 for construction (Platts 19-May-14).	
	CC (slab)				x 1	-	Under Construction	-	-	1500	-	SMS Siemag				
	Plate				x 1	-	Under Construction	-	-	356	-	SMS Siemag				
	Ciudad Piar, Bolivar (Phase 2)			Hot	x 1	-	Under Planning	-	-	-	844	SMS Siemag				
Africa	Algeria	ArcelorMittal	Annaba, jv with Sider	Steelmkg	n/a	Expansion	Under Planning	-	-	-	1200	n/a	763	<ul style="list-style-type: none">●The investment plan aims to boost capacity at Annaba to 2.2 million tpy by 2017 from 1 million tpy (The Wall Street Journal 07-Oct-13).		
		Cevital	Bellara	DR	n/a	n/a	Under Planning	-	-	-	n/a	n/a	3800	<ul style="list-style-type: none">●Cevital had been planning to build a new steelworks in Algeria, could boost domestic capacity massively, making the country a significant international exporter (Platts 03-Dec-10).●The first stage of work was scheduled for completion in 2014, when the Algerian government expects capacity to increase by 2 million tpy of crude steel and 3.5 million tpy of long products (Platts 03-Dec-10).		
				Steelmkg	n/a	n/a	Under Planning	-	-	-	2000	n/a				
				STR	n/a	n/a	Under Planning	-	-	-	3500	n/a				

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Africa	Algeria	EZZ Steel	Jijel	DR	n/a	n/a	Operation Suspended	-	-	-	-	n/a	750	<ul style="list-style-type: none"> Several years ago, Ezz Steel was planning to build a 3 million tpy rebar and wire rod mill, including a DRI plant (Platts 31-May-10). Reuters reported that Algeria has frozen a USD 750 million deal with Egypt's Ezz Steel and is in talks with other investors to replace the Egyptian firm (Reuters 27-May-10).
				EF	n/a	n/a	Operation Suspended	-	-	-	-	n/a		
				CC	n/a	n/a	Operation Suspended	-	-	-	-	n/a		
		Sider	Jijel, jv with Qatar Steel (Phase 1)	Steelmkg	n/a	n/a	Under Planning	-	-	-	2000	n/a	2000	<ul style="list-style-type: none"> The governments of Qatar and Algeria have decided to enter into a joint venture, for the construction of a steel complex in Algeria, at the industrial Area of Bellara, (Jijel) (Qatar Steel HP 25-Mar-13). The investment is controlled 51% by Sider and 49% by Qatar Steel (Platts 24-Dec-13). It is designed to produce 2 million tpy in its first phase (1.5 million tpy of rebars & 500,000 tpy of wire rod) (Qatar Steel HP 25-Mar-13).
				STR	n/a	Rebar	Under Planning	-	-	-	1500	n/a		
				WR	n/a	-	Under Planning	-	-	-	500	n/a		
		Jijel, jv with Qatar Steel (Phase 2)		Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	1200	<ul style="list-style-type: none"> The steel works will have an ultimate capacity of 5 million tpy of crude steel of flat and long products (Platts 24-Dec-13). The second phase will cost an estimated USD 1.2bn (MEED 18-Nov-12).
				Rolling	n/a	Flat products	Under Planning	-	-	-	3000	n/a		
		Tosyali	Oran (Phase 1)	EF	x 1	100 (T)	Operating	1200	-	-	-	CVS	750	<ul style="list-style-type: none"> The Turkish firm Tosyali started melting at its new EAF-based mill at Oran in Algeria in 2013 (Platts 05-Sep-13). The plant has a caster of 1.2 million tpy that can produce billet, and a rebar rolling mill with a capacity of 800,000 tpy (Platts 07-Jun-13). This is the first foreign investment by Tosyali Holding and the biggest private investment in Algeria (USD 750 million) (Platts 07-Jun-13).
				CC (billet)	x 1	-	Operating	1200	-	-	-	CVS		
				STR	x 1	Rebar	Operating	800	-	-	-	n/a		
			Oran (Phase 2)	STR	x 1	Rebar Wire rod	Under Construction	-	-	500	-	CVS	n/a	<ul style="list-style-type: none"> The new mill can produce low, medium and high carbon steel, as well as welding wire and spring steel (Platts 10-Mar-14).
	Egypt	Egyptian Iron & Steel	El-Tebbin, Helwan	EF	x 1	n/a	Under Planning	-	-	-	1800	n/a	285	<ul style="list-style-type: none"> State-owned Egyptian Iron & Steel plans to increase its crude steel capacity to 3 million tpy by adding an EAF (Platts 19-Jun-13). The company is studying the installation of a 600,000 tpy rebar mill (Platts 19-Jun-13). The company plans to spend EGP 2 billion (USD 285 million) on investments (Platts 19-Jun-13).
				CC (billet)	n/a	-	Under Planning	-	-	-	n/a	n/a		
				STR	x 1	Rebar	Under Planning	-	-	-	600	n/a		
		Ezz Steel	Sokhna, Suez	DR	x 1	Hyl	Under Construction	-	1800	-	-	Danieli Tenova	506	<ul style="list-style-type: none"> Ezz Steel is renegotiating with banks for additional funding after project costs rose from EGP 2.7 billion to EGP 3.5 billion due to capitalized interest incurred after a two-year delay (Platts 23-Apr-13). The investment is expected to cut steel production cost by as much as USD 100/mt when the plant in Sokhna-Suez is commissioned in the fourth quarter of 2014 (Platts 15-May-14).
				EF	x 1	115 (T)	Under Construction	-	850	-	-	n/a		
				CC (billet)	x 1	-	Under Construction	-	850	-	-	n/a		
				DR	x 1	n/a	Under Planning	-	-	-	1800	n/a	n/a	<ul style="list-style-type: none"> The company is likely to scrap another DRI installment of the same capacity, due to natural gas shortages (Platts 11-Mar-14).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Africa	Egypt	E.s.i.s.co (Beshay Steel)	Sadat	DR	x 1	Midrex	Under Construction	-	1760	-	-	n/a	n/a	●Beshay Steel is currently waiting on a final decision by the government over allocation of natural gas to fuel the 1.76 million tpy capacity (Platts 7-Mar-12). ●The investment forms part of the company's third steelworks, which will include a 1.3 million tpy melt shop and 400,000 tpy bar and section mill, operating under the name of Egyptian Sponge Iron & Steel Company (ESISCO) (Platts 7-Mar-12).
				EF	x 1	165 (T)	Under Construction	-	1300	-	-	Siemens-VAI	n/a	
				CC (billet)	x 1	-	Under Construction	-	1300	-	-	Siemens-VAI	n/a	
				STR	x 1	Bar Section	Under Construction	-	400	-	-	Danieli	n/a	
		Industrial Investment	Beni Sueif/Ain Sokhna	EF	x 2	n/a	Under Construction	-	1000	-	-	Danieli	n/a	●Danieli has signed a contract with Egyptian Steel by IIC, a joint venture between Egypt and Qatar investors, to build two new electric arc furnace-based mini-mills in Egypt with a capacity of 500,000 tpy each. The plants will be located at Beni Suef (south of Cairo) and Ain Sokhna (close to Suez) (Platts 02-Oct-12).
				CC (billet)	n/a	-	Under Construction	-	1000	-	-	Danieli	n/a	
				STR	n/a	Rebar	Under Construction	-	1000	-	-	Danieli	n/a	
		Suez Steel (Solb Misr)	Attaka, Suez	DR	x 1	Hyl	Operating	1950	-	-	-	Danieli	n/a	●Suez Steel started one of the largest DRI plants in the world in mid-2013, with a capacity of 1.95 million tpy (Platts 26-Sep-13). ●Shareholders of re-roller Misr National Steel Ataka have ratified stricter clauses on loans contracted jointly with sister company Suez Steel, a condition set by banks to reschedule payments on as much as USD 539 million in debt that helped finance Suez's DRI plant (Platts 16-Jul-13).
				EF	x 1	160 (T)	Operating	1280	-	-	-	Danieli	n/a	
				CC (billet)	x 1	-	Operating	1280	-	-	-	n/a	n/a	
	Libya	The Libyan Iron and Steel (Lisco)	Misurata	DR	x 1	n/a	Under Planning	-	-	-	n/a	n/a	n/a	●Libyan Iron & Steel Co (Lisco) was looking for new investors to help finance its projects for an extension of its capacity (Platts 31-Oct-13). ●Before the uprising, the company organized a large conference seeking foreign investors to help expand its production (Platts 31-Oct-13). ●The company intends to install a new melting shop with a capacity of 1.3 million tpy of billets (Platts 31-Oct-13). ●MBR reported that this project has yet to be approved/financed (MBR capex Q4 2013). ●The company has begun cold trials at its new 800,000 tpy rebar mill (Platts 22-May-14).
				EF	x 1	150 (T)	Under Planning	-	-	-	1300	n/a	n/a	
				CC (billet)	x 1	-	Under Planning	-	-	-	1300	n/a	n/a	
				CC (slab)	x 1	-	Under Planning	-	-	-	500	n/a	n/a	
				STR	x 1	Rebar	Operating	-	800	-	-	n/a	n/a	
	Mozambique	Baobab Resources	n/a	BF	n/a	n/a	Under Planning	-	-	-	2000	n/a	n/a	●Baobab Resources plans to build a 2 million tpy pig iron plant at its Tete iron ore project in Mozambique (Platts 18-Jun-13).
	Nigeria	Ajaokuta Steel Co	Ajaokuta, Kwara	Steelmkg	n/a	n/a	Under Planning	-	-	-	3900	n/a	n/a	●Several years ago, Ajaokuta Steel Company (ASC) planned to increase its capacity to 5.2 million tpy (Platts 29-Jul-11).
		Delta Steel Company	Aladja, Warri	Steelmkg	n/a	n/a	Under Planning	-	-	1400	-	n/a	n/a	●Delta Steel Company planned to increase its steelmaking capacity from the current 1 million tpy to 2.4 million tpy by 2015 (Platts 30-Jun-11).
		Government expansion project	Jv with Sinosteel	Steelmkg	n/a	n/a	Under Planning	-	-	-	4300	n/a	n/a	●Government is seeking a partnership with Sinosteel in order to expand one of the existing mill's capacity to 5.6 million tpy (Platts 15-Jul-13).

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Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Africa	South Africa	Afripalm Resources	Jv with SAIL	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	2950	●SAIL has signed an initial agreement with Afripalm Resources to consider building a steel mill (Reuters 25-Feb-11).
		Industrial Development Corp	Coega or Mozambique	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●Several years ago, state-owned Industrial Development Corp (IDC) planned to build a multi-billion dollar steel mill (MB 16-Feb-09).
Middle East	Afghanistan	AFISCO (India's SAIL-led consortium)	Hajigak	Steelmkg	n/a	n/a	Under Planning	-	-	-	1200	n/a	2110	●Indian consortium has scaled back its project. The project is iron ore (2.5 million tpy) and finished steel (1.2 million tpy) (Platts 02-Jan-14).
	Bahrain	United Steel Company (SULB)	Al Hidd (Phase 1)	DR	x 1	Midrex	Under Construction	1500	-	-	-	n/a	1000	●SULB is a joint venture between Gulf United Steel Company, (FOULATH) Kingdom of Bahrain (51%) and Yamato kogyo, Japan (49%) that is seeking to construct an integrated steel complex within the Hidd Industrial Area on the Kingdom of Bahrain (SULB HP 13-Jan-10). ●Commercial production is expected to start in 2013 (Platts 07-Jan-13). ●A consortium of banks including Société Générale and BNP Paribas has extended a 10-year loan for USD 373m that would cover a third of the project's estimated USD 1 billion cost. SULB is capitalised at USD 705m (Platts 09-Apr-12). ●The company's plans to install a rebar mill and additional 1 million tpy billet plant are undergoing feasibility study (Platts 23-Apr-13).
				EF	x 1	120 (T)	Under Construction	970	-	-	-	SMS Concast		
				CC (bloom)	x 1	-	Under Construction	970	-	-	-	SMS Concast		
				STR	x 1	Section	Under Construction	600	-	-	-	SMS Meer		
			Al Hidd (Phase 2 or later)	Steelmkg	n/a	Billet	Under Planning	-	-	-	1000	n/a	n/a	
				STR	x 1	Rebar	Under Planning	-	-	-	500	n/a	n/a	
	Iran	Alborz Steel	Gambron Steel Complex, Bandar Abbas	BF	x 3	n/a	Under Construction	n/a	-	-	-	n/a	n/a	●Gambron Steel had planned the construction of a steelmaking plant. Feasibility studies for setting up a steel plant with three blast furnaces and a capacity of 2 million tpy crude steel have been completed (MB 05-Aug-09). ●The company was reported to have obtained and finalized the necessary permits and approval from government authorities, and the bank agreed to provide the finance needed from China (Gambron Steel HP).
				LD	x 3	n/a	Under Construction	2000	-	-	-	n/a	n/a	
				CC (billet)	x 2	-	Under Construction	n/a	-	-	-	n/a	n/a	
				STR	n/a	Bar Wire rod	Under Construction	1500	-	-	-	n/a	n/a	
		Eghlid Steel	Fars	DR	n/a	n/a	Under Construction	-	1500	-	-	n/a	500	●Privately-owned Eghlid Steel project was expected to be started in August 2010 at Southern Iranian province of Fars (irsteel 20-Jul-10). ●The USD 500 million project would be supported by the government and the government has guaranteed securing raw material needs of the project including iron ore (irsteel 20-Jul-10).
				EF	n/a	n/a	Under Construction	-	1500	-	-	n/a		
				CC (billet)	n/a	n/a	Under Construction	-	1500	-	-	n/a		
		Esfahan Steel	Esfahan	BF	x 1	n/a	Under Planning	-	-	-	1800	n/a	n/a	●Esco planned to install a fourth blast furnace (Platts 07-Feb-13). ●Iran's parliament is launching an investigation into delays in the expansion projects. About 85% of the investment required for the expansion project would be financed by Chinese companies. The company has been facing a cash shortage and lack of technology supply (Platts 07-Feb-13).
				Steelmkg	n/a	n/a	Under Planning	-	-	-	1800	n/a	n/a	
				STR	x 1	Section Rail	Under Planning	-	-	-	1000	n/a	89	

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments	
Middle East	Iran	Fasa Steel Complex Co (Fasco)	Shiraz (Phase 1)	DR	n/a	n/a	Under Construction	-	1700	-	-	n/a	727	●On 22 February 2010, the constriction of Iran’s Fasa Steel Complex was officially inaugurated (Yieh.com 08-Mar-11). ●The project budget is IRR 8,000bn (about USD 727m) in the first phase (Platts 28-Feb-11). ●The targeted final steel output capacity of the complex is 4.5 million tpy (SteelGURU 07-Mar-11).	
				EF	n/a	n/a	Under Construction	-	1500	-	-	n/a			
			Shiraz (Phase 2 or later)	Steelmkg	n/a	n/a	Under Construction	-	-	-	3000	n/a	n/a		
		Eight new mini steelworks	Miyane Steel (Azarbayjan Sharghi)	DR	n/a	n/a	Under Construction	-	800	-	-	n/a	n/a	●Eight new steelworks have been under construction since 2005. Each of the new steelworks, which consist of a DRI module and meltshop with billet caster (excl. Brojen works), will have an annual capacity of 800,000 tpy of crude steel (Platts 16-Jul-13). ●All projects are being built in less developed provinces of the country and are considered as an attempt by the government to improve the economic situation in these provinces (Platts 26-Sep-11). ●The cost of these steelworks is estimated at around USD 300 per site (Platts 21-Jul-09). ●These projects are to be financed by a foreign investor at a cost of EUR 1.8 billion. It is reported that the interested party is most likely Chinese (Platts 03-Jan-13). ●Imidro was seeking private sector buyers for seven of eight new steelworks currently under construction in Iran (Platts 26-Sep-11). ●China Metallurgical Group Corporation (MCC) has been revealed as the contractor involved in completing new steelworks that have been under construction. The Iranian government has approved an initial payment of Yuan 15 billion (USD 2.4 billion) to the Chinese plant builder, financed by Iranian assets in Chinese banks (Platts 16-Jul-13).	
				EF	n/a	n/a	Under Construction	-	800	-	-	n/a	n/a		
				CC (billet)	n/a	n/a	Under Construction	-	800	-	-	n/a	n/a		
			Bafgh Steel (Yazd)	DR	n/a	n/a	Under Construction	-	800	-	-	Iran Itok	220		
				EF	n/a	n/a	Under Construction	-	800	-	-	Iran Itok			
				CC (billet)	n/a	n/a	Under Construction	-	800	-	-	Iran Itok			
			Baft Steel (Kerman)	DR	n/a	n/a	Under Construction	-	800	-	-	Barsoo	100		
				EF	n/a	n/a	Under Construction	-	800	-	-	Barsoo	n/a		
				CC (billet)	n/a	n/a	Under Construction	-	800	-	-	Barsoo	n/a		
			Sepid Dasht Steel (Brojen) (Chahar Mahal-e-Bakhtiyary)	DR	n/a	n/a	Operating	800	-	-	-	Local	322		●Iranian steelmaker Sepid Dasht’s direct reduced iron (DRI) module was expected to be completed by March 2013, if the country’s government provided it with enough financial support (MB 08-Aug-12). ●According to Asyn Steel Engineering HP, Chahar Mahal Steel Complex direct reduction plant has been completed (Asyn Steel Engineering HP).
				EF	n/a	n/a	Under Construction	800	-	-	-	Local			
				CC (slab)	n/a	n/a	Under Construction	800	-	-	-	Local			
			Ghaenat Steel (Khorasan Jonobi)	DR	n/a	n/a	Under Construction	800	-	-	-	n/a	n/a	●Ghaenat steel is constructing a steelworks, which consists of a DRI module and meltshop with billet caster, with a capacity of 800,000 tpy of crude steel. The company planned to complete construction of its DRI module by March 2013 and the new meltshop is scheduled for completion in March 2014 (MB 31-Jul-12).	
				EF	n/a	n/a	Under Construction	-	800	-	-	n/a	n/a		
				CC (billet)	n/a	n/a	Under Construction	-	800	-	-	n/a	n/a		

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Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Middle East	Iran	Eight new mini steelworks	Sabzevar Steel (Khorasan)	DR	n/a	n/a	Operating	800	-	-	-	n/a	n/a	●According to Asyn Steel Engineering HP, Sabzevar Steel Complex direct reduction plant has been completed (Asyn Steel Engineering HP).
				EF	n/a	n/a	Under Construction	800	-	-	-	n/a	n/a	
				CC (billet)	n/a	n/a	Under Construction	800	-	-	-	n/a	n/a	
			Shadegan Steel (Khozestan)	DR	n/a	n/a	Operating	800	-	-	-	n/a	n/a	●According to Asyn Steel Engineering HP, Shadegan Steel Complex direct reduction plant has been completed (Asyn Steel Engineering HP).
				EF	n/a	n/a	Under Construction	-	-	-	800	n/a	n/a	
				CC (billet)	n/a	n/a	Under Construction	-	-	-	800	n/a	n/a	
			Neyriz Steel (Fars)	DR	n/a	n/a	Under Construction	-	-	-	800	n/a	330	●Construction of Neyriz Steel is unlikely to be completed until at least 2016 owing to issues with availability of financing (Platts 23-Jan-14). ●Neyriz project is costing over USD 330 million, with some of the financing being provided by an unnamed Chinese investor (Platts 23-Jan-14).
				EF	n/a	n/a	Under Construction	-	-	-	800	n/a		
				CC (billet)	n/a	n/a	Under Construction	-	-	-	800	n/a		
		Kaveh Jonob Steel	Bandar abbas	EF	n/a	n/a	Under Planning	1200	-	-	-	n/a	n/a	●According to a Chinese website, Kaveh Steel plans to build a new billet plant with a capacity of 1.2 million tpy (NET 08-Jul-11).
				CC (billet)	n/a	n/a	Under Planning	1200	-	-	-	n/a	n/a	
		Kish South Kaveh Steel	Kish	DR	x 2	Midrex	Under Construction	1860	-	-	-	n/a	n/a	●According to Midrex, one of two DRI plants is operating (Midrex 2012 World Direct Reduction Statistics). ●Kish South Kaveh Steel Co. (SKS) is proceeding with construction of steel meltshop and the electric steelmaking complex will be equipped with 170-tonne EAF, ladle furnace and six-strand billet continuous caster (Metal Expert 20-Nov-13).
				EF	x 1	170 (T)	Under Construction	-	-	1200	-	MME Energy Goster	n/a	
				CC (billet)	x 1	-	Under Construction	-	-	1200	-	MME Energy Goster	n/a	
		Khouzestan Steel	Ahwaz	EF	n/a	n/a	Under Planning	-	-	-	1000	n/a	n/a	●The company had been pursuing an expansion project to raise capacity to 5 million tpy before economic sanctions (Platts 27-Mar-13).
		Middle East Mines Industries Development Holding Company (MIDHCO)	Zarand Iron & Steel Company (ZISCO)	BF	n/a	n/a	Under Construction	-	-	1700	-	n/a	n/a	●Zarand Iron & Steel Company (ZISCO) will have blast furnace, steelmaking complex (1.5 million tpy) and sintering plant (2 million tpy). ●The project is expected to be completed in August 2015 (Metal Expert 07-Feb-14).
				LD	n/a	n/a	Under Construction	-	-	1500	-	n/a	n/a	
				CC (billet)	n/a	-	Under Construction	-	-	1500	-	n/a	n/a	

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Middle East	Iran	Middle East Mines Industries Development Holding Company (MIDHCO)	Sirjan Iranian Steel Company (SISCO), Bardsir DRI & Steel Plant	DR	x 1	n/a	Under Construction	-	1000	-	-	n/a	150	●The plant will have a 1 million tpy direct reduced iron (DRI) module and a 1 million tpy meltshop (SteelOrbis 26-Sep-11).
				EF	x 1	n/a	Under Construction	-	1000	-	-	n/a	170	●According to the Embassy of the Islamic Republic of Iran in South Africa, the project was inaugurated in September 2010 and is expected to be completed in September 2014 (Embassy of the Islamic Republic of Iran Jun-12).
				CC (billet)	x 1	-	Under Construction	-	1000	-	-	n/a		
			Kerman Steel	DR	x 1	n/a	Under Construction	-	-	1500	-	n/a	n/a	●A new 1.5 million tpy billet plant under the name of Kerman Steel is being constructed in Iran by MIDHCO. The project is a part of MIDHCO's USD 5 billion worth of investment in Kerman (Platts 25-Jul-11).
				EF	x 1	n/a	Under Construction	-	-	1500	-	n/a	n/a	●This company was established in 2007 with the support of Bank Pasgarad (SteelGURU 20-Apr-11).
				CC (billet)	x 1	n/a	Under Construction	-	-	1500	-	n/a	n/a	
		MMTE Engineering & Construction Company and Tenova	Sirjan	Steelmkg	n/a	n/a	Under Construction	-	-	1000	-	n/a	n/a	●MMTE Engineering & Construction and Tenova plan to construct a new steelworks with a capacity of 1 million tpy in the southeastern city of Sirjan. The Sirjan steel plant is expected to be inaugurated by March 2015 (Platts 15-Oct-13).
				CC (billet)	n/a	n/a	Under Construction	-	-	1000	-	n/a	n/a	
		Mobarakeh Steel	Hormozgan Steel	DR	x 2	Midrex	Under Construction	-	-	1500	-	n/a	660	●Mobarakeh Steel is aiming to increase the group's crude steel capacity to 11 million tpy by 2015 (Platts 31-Oct-13).
				EF	x 2	120 (T)	Under Construction	-	-	1500	-	n/a		●Iranian slab producer Hormozgan Steel's planned increase in capacity to 3 million tpy is expected to be completed by 2015 (Platts 31-Oct-13).
				CC (slab)	x 2	-	Under Construction	-	-	1500	-	n/a		●The company was reported several years ago to be financed 48% of the investment by Belgian banks (Platts 29-Aug-08).
			Saba Steel	DR	x 2	n/a	Under Planning	1500 (2012)	-	-	1500	n/a	128	●Saba Steel has inaugurated a new 1.5 million tpy direct reduced iron (DRI) module (Platts 18-Dec-12).
				EF	x 1	n/a	Under Construction	-	-	-	700	n/a	n/a	●The company plans to install another DRI unit with the same capacity (Platts 18-Dec-12).
				CC (slab)	x 1	Thin slab	Under Construction	-	-	-	700	n/a	n/a	●The expansion project involves the installation of a new electric arc furnace and a thin slab caster (Platts 21-Nov-11).
		Natanz Steel Industries	Esfahan	EF	x 1	75 (T)	Under Construction	1000	-	-	-	n/a	n/a	●Natanz Steel planned on commissioning a second meltshop at its facility in Iran's Esfahan province. The meltshop has been equipped with an eccentric bottomtapping electric arc furnace (EAF) of 75 tonnes capacity (MB 07-Mar-12).
				CC (billet)	x 1	-	Under Construction	1000	-	-	-	n/a	n/a	
		Neizar Qom Steel	Qom	EF	x 1	n/a	Under Construction	-	1200	-	-	n/a	741	●Neizar Qom Steel started construction of the first phase of its mini-mill in 2012 (Steel First 30-Jul-12).
STR	x 1			Section	Under Construction	-	1000	-	-	n/a	n/a	●MBR reported that this project has been delayed (MBR capex Q4 2013).		

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Middle East	Iran	Pasargad Steel	Shiraz	DR	n/a	n/a	Under Planning	-	-	-	n/a	n/a	5500	●The new private-sector billet producer Pasargad Steel commissioned its 1.5 million tpy capacity electric arc furnace-based billet plant, located near the southwestern city of Shiraz, in June 2013 (Platts 02-Jul-13). ●Built at a cost of USD 5.5 billion, the steelworks will also install iron ore pelletising and DRI plants, as well as wire rod, bar and medium sections rolling mills when fully completed (Platts 02-Jul-13).
				EF	x 1	n/a	Operating	1500	-	-	-	n/a		
				CC (billet)	x 1	-	Operating	1500	-	-	-	n/a		
				Rolling	n/a	Bar, Section, Wire rod	Under Planning	-	-	-	n/a	n/a		
	Iraq	Mass Global Investment	Sulaymaniyah, Kurdistan (Phase 1 & 2)	EF	x 1	120 (T)	Under Construction	1250	-	-	-	Danieli	400	●Danieli will supply a meltshop and rebar mill for Jordan-based Mass GLocal Investment's new steelworks project in Kurdistan, northern Iraq. It includes a 120-tonne electric arc furnace, ladle furnace and five-strand continuous caster for 130mm and 150mm billets (Platts 01-Feb-11). ●The cost of the billet plant is USD 400m (Platts 06-Sep-10).
				CC (billet)	x 1	-	Under Construction	1200	-	-	-	Danieli		
				STR	x 1	Rebar	Under Construction	-	-	650	-	Danieli	n/a	●Studies are still being carried out into the installation of a DRI plant in a later stage of expansion (Platts 25-Jun-13).
			Sulaymaniyah, Kurdistan (later)	DR	n/a	n/a	Under Planning	-	-	-	n/a	n/a	n/a	
		STX Group	Basra	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	3000	●Several years ago, Korean plant builder STX Heavy Industries was reported to have signed a memorandum of understanding with the Iraqi government to build a 3 million tpy integrated steelworks in Basrah province, southern Iraq (Platts 05-Feb-10). ●After the USD 3bn project is completed, the works will be managed by State Company for Iron & Steel (Platts 05-Feb-10).
				Hot	n/a	-	Under Planning	-	-	-	1200	n/a		
				STR	n/a	Rebar Section	Under Planning	-	-	-	1800	n/a		
		Oman	Jindal Shadeed Iron & Steel	Sohar	DR	x 1	n/a	Under Planning	-	-	-	2100	n/a	n/a
	EF				x 1	200 (T)	Operating	-	2000	-	-	Danieli	245	
	CC (billet)				x 1	-	Operating	-	2000	-	-	Danieli		
	STR				x 1	Rebar	Under Construction	-	-	1400	-	Danieli	300	
	Janada Shdeed Company		Sultanate (Phase 1)	DR	n/a	n/a	Operating	1500 (2012)	-	-	-	n/a	n/a	●Janada Shdeed Company has inaugurated its direct reduction iron with a production capacity of 1.5 million tpy. The company also plans to add an electric arc furnace and continuous casting machine at the second stage (Arabs steel 19-Apr-12).
			Sultanate (Phase 2)	EF	n/a	n/a	Under Planning	-	-	-	n/a	n/a	n/a	
				CC	n/a	n/a	Under Planning	-	-	-	n/a	n/a	n/a	

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Middle East	Oman	Moon Iron & Steel	Sohar	EF	x 1	n/a	Under Construction	-	-	1200	-	n/a	270	●Omani institutional investors are establishing a private equity fund to invest in Oman's steel industry. The fund's first investment will be a 40% equity stake in rebar steelworks of Moon Iron & Steel Company (Platts 05-Feb-14). ●Bank Sohar has agreed to arrange the project's entire debt requirement of USD 270 million (Platts 12-Nov-13).
				CC (billet)	x 1	-	Under Construction	-	-	1200	-	n/a		
				STR	x 1	Rebar	Under Construction	-	-	700	-	n/a	n/a	
		Steel Authority of India Ltd (SAIL)	Sohar, jv with Oman Oil Co	Steelmkg	n/a	DRI	Under Planning	-	-	-	3000	n/a	2800	●SAIL has signed an initial pact with Oman Oil Co to jointly set up a gas-based steel plant in Oman (The Hindu Business Line 15-Nov-11).
		Sun Metals	Sur	DR	x 1	n/a	Under Planning	-	-	-	1500	n/a	n/a	●Sun Metals will construct two electric arc furnace meltshops, taking billet capacity to 2.5 million tpy rather than the 1.2 million tpy initially planned (Platts 15-May-14). ●Commissioning of the new plant is scheduled for the first half of 2017 (Platts 15-May-14). ●Depending on natural gas availability, the company plans to build iron ore beneficiation and DRI plants, each with a capacity of 1.5-2 million tpy (Platts 17-Jan-13).
				EF	x 2	n/a	Under Construction	-	-	-	2500	Fuchs	n/a	
				CC (billet)	n/a	Stainless round billet	Under Construction	-	-	-	2500	n/a	n/a	
				STR	x 1	Rebar	Under Construction	-	-	-	1200	n/a	n/a	
	Qatar	Qatar Steel Co (QASCO)	Mesaieed	EF	x 1	110 (T)	Operating	-	1100	-	-	Siemens-VAI	n/a	●Qatar Steel was reported to have secured a USD 250 million subordinated loan facility to finance its new EAF. International Bank of Qatar would provide USD 150m of the loan (Platts 06-Dec-11). ●The company's two EAFs will be decommissioned (Platts 22-Jan-14).
				CC (billet)	x 1	-	Operating	-	1100	-	-	Siemens-VAI	n/a	
	Saudi Arabia	Al Atoun Steel Industries	Yanbu	DR	x 1	n/a	Operation Suspended	-	-	-	-	n/a	n/a	●The plant's commissioning has been delayed several times from its initially scheduled launch date in 2008 due to the economic crisis and a lack of electricity availability (Platts 06-Feb-14). ●Al Atoun Steel Industries has put on hold indefinitely construction of its long product steelworks in the western coastal city of Yanbu as it awaits the allocation of power supply (Platts 06-Feb-14).
				EF	x 1	100 (T)	Operation Suspended	-	-	-	-	n/a	n/a	
				CC (billet)	x 1	-	Operation Suspended	-	-	-	-	n/a	n/a	
				STR	x 1	Rebar	Operation Suspended	-	-	-	-	n/a	n/a	
		Al Ittefaq Steel (Al Tuwairqi Holdings)	Dammam	DR	n/a	n/a	Under Construction	-	-	-	n/a	n/a	n/a	●The investment was initially delayed by financial issues, which it overcame in 2011 by signing a SAR 7.5 billion (USD 2 billion) debt restructuring deal (Platts 01-Apr-13). ●Al Ittefaq Steel has begun commissioning its new billet plant (Platts 01-Apr-13). ●The company plans to add billet capacity (Platts 01-Apr-13).
				EF	x 2	130 (T)	Operating	2000	-	-	-	POSCO	n/a	
				CC (billet)	x 2	-	Operating	1000	1000	-	-	n/a	n/a	

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Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Middle East	Saudi Arabia	Al-Yamamah Company	Jizan	EF	x 1	n/a	Under Construction	-	-	-	1200	Danieli	400	<ul style="list-style-type: none"> ● Saudi Arabia is experiencing a shortage in natural gas allocation and electricity generation capacity, which has delayed the launch of a number of steelworks (Platts 15-Jul-13). ● The company has had the start-up of its new billet plant delayed by insufficient power (Platts 06-Feb-14).
				CC (billet)	x 1	-	Under Construction	-	-	-	1200	n/a		
				STR	x 1	Rebar	Under Construction	-	-	-	600	n/a		
		Al Watania Steel	Arkan Steel, Jeddah	EF	x 1	n/a	Under Construction	-	1000	-	-	n/a	n/a	<ul style="list-style-type: none"> ● The projects, under the name of Arkan Steel, continues to carry out construction of its 1 million tpy electric arc furnace-based rebar and wire rod steelworks in Saudi Arabia. All technology has already been procured, with production scheduled to commence in the fourth quarter of 2014 (Platts 23-Oct-13).
				CC (billet)	x 1	-	Under Construction	-	1000	-	-	n/a	n/a	
				STR	x 1	Rebar Wire rod	Under Construction	-	1000	-	-	n/a	n/a	
		Rajhi Heavy Industries	King Abdullah, Jeddah	DR	n/a	DRI HBI	Operation Suspended	-	-	-	-	n/a	n/a	<ul style="list-style-type: none"> ● Rajhi Heavy Industries had earlier planned to launch a 2 million tpy steelworks in King Abdullah Economic City, north of Jeddah. However, the company abandoned the project to build a new steelworks in Saudi Arabia (Platts 28-May-13). ● The works was designed to have 1.8 million tpy direct reduced iron and 650,000 tpy hot briquetted iron production capacity, as well as billet production allocated for rolling of light and heavy sections, and seamless pipe (Platts 28-May-13).
				EF	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	
				CC (billet)	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	
				Rolling	n/a	Section Seamless	Operation Suspended	-	-	-	-	n/a	n/a	
		Rajhi Steel	Jeddah	DR	x 1	n/a	Under Planning	-	-	-	2000	n/a	1000	<ul style="list-style-type: none"> ● Rajhi Steel is considering the installation of a new billet plant to reduce the need for imports of the semi-product (Platts 26-Feb-13). ● MBR reported that this project has yet to get go-ahead and expected capex is at USD 1bn (MBR capex Q4 2013).
				Steelmkg	n/a	n/a	Under Planning	-	-	-	1000	n/a		
			Jubail, JV with RINL	EF	n/a	n/a	Under Planning	-	-	-	3000	n/a	8000	<ul style="list-style-type: none"> ● India's state-owned Rashtriya Ispat Nigam Ltd (RINL) is looking to set up a 3 million tpy steel plant as a joint venture with local firm Rajhi Steel (SteelGURU 12-Jun-12).
				CC	n/a	Billet Slab	Under Planning	-	-	-	3000	n/a		
		Saudi Basic Industries Corp (SABIC)	Saudi Iron & Steel (Hadeed), Jubail	DR	x 1	n/a	Under Planning	-	-	-	2000	n/a	n/a	<ul style="list-style-type: none"> ● The Italian credit guarantee agency SACE has secured a USD 435m loan provided by HSBC to Saudi Basic Industries Corporation (SABIC) for the expansion project in Jubail Industrial City (Platts 02-Feb-11). ● Saudi Iron & Steel Company has started trial runs at its sixth electric arc furnace of 1 million tpy (Platts 24-Apr-14). ● The EAF is expected to reach full capacity by the end of 2014 (Platts 05-Mar-14). ● The Jubail plant will house a new DRI plant (Platts 28-Feb-14).
				EF	x 1	150 (T)	Operating	1000	-	-	-	Danieli	n/a	
				CC (billet)	x 1	-	Operating	1000	-	-	-	Danieli	n/a	
				WR	x 1	-	Operating	650	-	-	-	Danieli	n/a	

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Middle East	Saudi Arabia	South Steel (SOLB Steel)	Jazan	EF	x 1	140 (T)	Operating	1000	-	-	-	SMS Meer	750	●South Steel was reported several years to have signed a SAR 912.5m (USD 243.6m) deal with Banque Saudi Fransi to finance the construction of a new steel plant in Jazan Economic City (Platts 12-Feb-09). ●In July 2013, the company commissioned its mini-mill. The steelworks produces up to 1 million tpy of billet and the rolling mill up to 500,000 tpy of rebar (Steel Times 15 Jul-13).
				CC (billet)	x 1	-	Operating	1000	-	-	-	SMS Meer	600	
				STR	x 1	Rebar Wire rod	Operating	500	-	-	-	SMS Meer	250	
	United Arab Emirates	Emirates Steel Industries (ESI)	Mussafah (Phase 3)	DR	x 1	n/a	Under Construction	-	-	-	1600	n/a	n/a	●Emirates Steel has started to construct the third phase of its expansion project that involves the construction of a new steel meltshop and hot strip mill, designed to serve markets in the Gulf Cooperation Council (GCC) region (Platts 06-Sep-11). ●Its new 1.6 million tpy capacity hot strip mill in Abu Dhabi is expected to be delayed beyond its initially scheduled commissioning date of mid-2014 due to issues with gas availability (Platts 26-Jun-13). ●The company is awaiting an allocation of gas from the government for its new meltshop and hot strip mill (Platts 30-Apr-13). ●The plant would make ESI only the second flat steelmaker in the Gulf Cooperation Council after SABIC (Platts 26-Jun-13). ●Emirates Steel launched its 1 million tpy heavy section mill in 2013 (Industeel 05-Mar-13).
				EF	x 1	n/a	Under Construction	-	-	-	1400	n/a	n/a	
				CC (slab)	x 1	-	Under Construction	-	-	-	1400	n/a	n/a	
				Plate	x 1	-	Under Construction	-	-	-	1300	n/a	n/a	
				Hot	x 1	-	Under Construction	-	-	-	1600	n/a	n/a	
			Mussafah	STR	x 1	Section	Operating	1000	-	-	-	n/a	n/a	
Asia	Bangladesh	Abul Khair Steel	Chittagong	EF	n/a	n/a	Under Planning	1200	-	-	-	n/a	n/a	●Abul Khair Steel plans to install an electric arc furnace meltshop by end-2013 to eliminate the need for billet imports (Platts 24-Jul-12). ●The new billet plant will have a capacity of 1.2 million tpy and will be the largest for an EAF-based unit in Bangladesh (Platts 24-Jul-12).
				CC (billet)	n/a	-	Under Planning	1200	-	-	-	Danieli	n/a	
	China	Anhui Changjiang Iron & Steel	Maanshan, Anhui	BF	x 1	1080 m3	Under Planning	-	-	-	n/a	n/a	n/a	●On 27 January 2013, Anhui Changjiang Iron & Steel commissioned its second 120 ton converter in Anhui (Platts 31-Jan-13). ●The new converter is part of the second phase of Changjiang's 3 million tpy integrated steelworks project (Platts 31-Jan-13). ●Changjiang's second phase will include a third 1,080 cubic meter blast furnace, a sinter plant and a new stockyard (Platts 31-Jan-13).
				LD	x 1	120 (T)	Operating	1200	-	-	-	n/a	n/a	
				STR	x 2	Rebar	Operating	2200 (2012)	-	-	-	n/a	n/a	
		Anshan Iron & Steel Group	Ningde, Fujian	Steelmkg	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	●Anshan Iron & Steel had decided to put its expansion plan in Ningde city in Fujian on hold (Platts 17-May-12).
		Baogang Wanteng Iron & Steel	Wuhai, Inner Mongolia	Steelmkg	n/a	n/a	Under Planning	1000	-	-	-	n/a	n/a	●Baogang Wanteng Iron & Steel aims to double capacity to 2 million tpy. The expansion could come on-stream within 2013 (Platts 29-Jan-13).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	China	Baotou Iron & Steel Corp	Baotou, Inner Mongolia	BF	x 2	4000 m3	Under Construction	-	n/a	-	-	n/a	n/a	<ul style="list-style-type: none"> ● Baotou Iron & Steel has already commissioned two 250 mt converters and one 5 million tpy 2,250mm hot strip mill in March-April 2014 at the new steelworks (Platts 01-May-14). ● The company plans to commission two new blast furnaces in late May 2014 at its new integrated flat steel works, which will have a crude steel capacity of 5 million tpy (Platts 01-May-14). ● The 2,250mm hot strip mill, together with upstream iron and steel-making facilities, is intended to expand Baotou's HRC product range (Platts 15-Jul-11). ● Once the new capacities are commissioned, Baotou Steel's crude steel capacity will reach some 17-18 million tpy (Platts 29-Jan-13).
				LD	x 2	250 (T)	Operating	-	5000	-	-	n/a	n/a	
				CC (slab)	x 2	-	Operating	-	5300	-	-	n/a	n/a	
				Hot	x 1	-	Operating	-	5000	-	-	n/a	n/a	
				Cold	n/a	-	Under Planning	-	-	-	n/a	n/a	n/a	
		Chongqing Iron & Steel	Chongqing	DR	x 2	Finex	Under Planning	-	-	3000	-	n/a	n/a	<ul style="list-style-type: none"> ● On 22 September 2013, Chongqing Iron & Steel signed a memorandum of agreement (MOA) with POSCO to build a 3 million tpy integrated Finex integrated steelworks (Platts 24-Sep-13).
				LD	x 2	150 (T)	Under Planning	-	-	3000	-	n/a	n/a	
		Ganxin Iron & Steel	Atush, Xinjiang Uyghur	BF	x 1	1250 m3	Under Construction	1000	-	-	-	n/a	n/a	<ul style="list-style-type: none"> ● In 2011, China's National Development & Reform Commission granted approval for Ganxin Iron & Steel to start pre-construction work on its integrated steelworks project in Atush city in the Xinjiang Uyghur autonomous region in the country's far west (Platts 09-Mar-11). ● Ganxin Iron & Steel was founded in 2010 by Jiangxi state-owned Xinyu Iron & Steel (Xingang) and a group of Xinjiang-based investors (Platts 09-Mar-11).
				LD	x 2	65 (T)	Under Construction	1000	-	-	-	n/a	n/a	
				CC (billet)	x 1	-	Under Construction	1000	-	-	-	n/a	n/a	
				STR	x 1	Rebar	Under Construction	900	-	-	-	n/a	n/a	
		Guangdong Steel Group Corp (Baosteel Group)	Zhanjiang, Guangdong	BF	x 2	5050 m3	Under Construction	-	-	4115	4115	n/a	6800	<ul style="list-style-type: none"> ● Baosteel's Zhanjiang steelworks will mainly target auto and white goods customers in south China, especially the Pearl River Delta and is expected to be completed by September 2016 (Platts 05-Sep-13). ● The company will invest Yuan 41.5 billion (USD 6.8 billion) in the new works (Platts 07-Nov-13). ● The company will reduce its investment by relocating some existing facilities from its Shanghai-based steelworks (Platts 11-Jun-13). ● On 17 October 2013, the company began piling work for the construction of the first blast furnace (Platts 22-Oct-13). ● Zhanjiang steelworks would house two hot strip mills, one cold strip mill and some hot-dip galvanizing lines (Platts 11-Jun-13). ● On 27 April 2014, the signing ceremony of the strategic cooperation agreement and financing agreement on Zhanjiang steel project between Baosteel and the Agricultural Bank of China (ABC) took place in Zhanjiang (Government of Zhanjiang 30-Apr-2014).
				LD	x 3	350 (T)	Under Construction	-	-	5952	2976	n/a		
				CC (slab)	x 3	-	Under Construction	-	-	6000	2750	Siemens-VAI Relocation		
				Plate	x 1	Half is for ship plate	Under Construction	-	-	-	1800	Relocation		
				Hot	x 2	-	Under Planning	-	-	-	9000	SMS Siemag Relocation		
				Cold	x 1	Automotive sheet	Under Construction	-	-	-	2200	Mitsubishi Heavy Industries		
				HGL	x 2	-	Under Planning	-	-	-	900	n/a		

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	China	Guangxi Steel Group (Wuhan Iron & Steel Group)	Fangchenggang, Guangxi	BF	x 2	5200 m3	Under Planning	-	-	-	8400	n/a	10120	<ul style="list-style-type: none"> ●The RMB 63.99bn (USD 10.12bn) plant will mainly target users in southern China (Platts 30-May-12). ●Financing would be available from the sale of Wugang's domestic and overseas iron ore assets to its Shanghai-listed arm (Platts 08-Jul-13). ●Fangchenggang steelworks targets high-end flat products for southern China's auto and white goods manufacturers (Platts 25-Jul-13). ●On 26 July 2013, the company held a groundbreaking ceremony for the first cold strip mill (2,030mm wide) (Platts 29-Jul-13). ●The company decided to launch construction of the cold strip mill ahead of iron, steel and hot rolled coil making facilities (Platts 25-Jul-13). ●The cold strip mill is expected to be commissioned in the first half of 2015 (Platts 29-Jul-13) ●Hot band for Wugang's cold strip mill would initially be sourced from the Wuhan-based steelworks or other local mills, making its CRC more costly (Platts 25-Jul-13).
				LD	x 3	300 (T)	Under Planning	-	-	-	9200	n/a		
				CC (slab)	x 4	-	Under Planning	-	-	-	10500	n/a		
				Plate	x 1	-	Under Planning	-	-	-	1800	n/a		
				Hot	x 2	-	Under Planning	-	-	-	8700	n/a		
				Cold	x 2	Automotive sheet	Under Planning	-	-	2200	1600	n/a		
				Silicon	x 1	Electrical sheet	Under Planning	-	-	-	1000	n/a		
		Inner Mongolia Zhongxing Group	Inner Mongolia	DR	x 1	HBI	Under Construction	-	-	1000	-	Tenova	322	<ul style="list-style-type: none"> ●The company has started constructing a 1 million tpy capacity hot briquette iron (HBI) plant (USD 322 million) (Platts 07-May-13).
		Jiangsu Shagang Group	Zhangjiagang, Jiangsu	LD	x 2	120 (T)	Under Construction	-	-	3000	-	CTMCC	n/a	<ul style="list-style-type: none"> ●The two new rod mills will be fed by a 120 metric ton converter currently under construction (Platts 11-Jun-13).
				WR	x 2	-	Under Construction	-	1200	-	-	n/a	n/a	<ul style="list-style-type: none"> ●Two converters with a combined 3 million tpy of steel capacity are expected to be completed by end-August 2015 (Platts 31-Oct-13).
		Jiangsu Yonggang Group	Zhangjiagang, Jiangsu	EF	x 1	110 (T)	Operating	1000	-	-	-	n/a	343	<ul style="list-style-type: none"> ●In June 2013, Jiangsu Yonggang Group commissioned a RMB 2.1 billion (USD 343 million) steelmaking shop consisting of a 110-mt EAF and a continuous caster capable of making 1 million tpy of semi-finished products (Platts 17-Sep-13).
				CC (billet)	x 1	Round billet	Operating	1000	-	-	-	n/a		
				STR	x 1	Bars	Operating	800	-	-	-	n/a	n/a	<ul style="list-style-type: none"> ●Semi-finished products will include ingots/forgings and round billets (Platts 06-Jun-13).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	China	Kunming Iron & Steel	Yunnan	BF	x 2	2500 m3	Under Planning	1900	-	1900	-	n/a	n/a	<ul style="list-style-type: none"> Two new 120 mt converters were commissioned on 9 July 2012 by Chinese steelmaker Kunming Iron and Steel at new facilities in the city of Anning in the Chinese province of Yunnan (SteelOrbis 10-Jul-12). The converters were built by Mechanical and Electrical Co, which is part of the state-owned China First Metallurgical Construction Group Corporation (SteelOrbis 10-Jul-12). The company also plans to set up a new 4 million tpy hot strip mill at its new steelworks (SteelOrbis 10-Jul-12).
				LD	x 2	200 (T)	Operating	3900 (2012)	-	-	-	Mechanical and Electrical Co	n/a	
				CC (billet)	x 1	-	Under Construction	1400	-	-	-	n/a	n/a	
				CC (slab)	x 2	-	Under Planning	1950	-	1950	-	n/a	n/a	
				STR	x 1	Bar Section	Under Construction	800	-	-	-	n/a	n/a	
				Hot	x 1	-	Under Planning	-	-	4000	-	n/a	n/a	
				Cold	x 1	-	Under Planning	-	-	1600	-	n/a	n/a	
		Lianfeng Iron & Steel	Jiangsu	BF	x 1	1080 m3	Operating	1200	-	-	-	MCC	n/a	<ul style="list-style-type: none"> On 19 October 2013, Lianfeng Iron & Steel commissioned its 1,080 cubic metre blast furnace (SteelOrbis 21-Oct-13).
		Lianyuan Iron & Steel	Hunan	BF	x 1	2800 m3	Operating	n/a	-	-	-	MCC	n/a	<ul style="list-style-type: none"> Liangang has commissioned a new blast furnace. The hot metal from the furnace will feed Valin's auto sheet plant (Platts 12-Mar-13).
		Lianyungang Yaxin Steel	Lianyungang, Jiangsu	BF	x 2	n/a	Under Construction	-	3000	-	-	n/a	n/a	<ul style="list-style-type: none"> On 22 October 2013, Lianyungang Yaxin Steel, part of China's privately-owned Henan Yaxin Steel Group began test operations on one 150 metric ton oxygen converter. A second converter is expected to come on stream in December 2013 (Platts 28-Oct-13). The company has installed three wire rod mills with a combined capacity of over 2 million tpy (Platts 28-Oct-13).
				LD	x 2	150 (T)	Under Construction	3000	-	-	-	MCC Huatian	n/a	
				CC (billet)	x 2	-	Under Construction	-	2400	-	-	n/a	n/a	
				WR	x 3	-	Operating	2130	-	-	-	n/a	n/a	
		Liuzhou Iron & Steel	Liuzhou, Guangxi	BF	x 1	2600 m3	Operating	2250 (2012)	-	-	-	n/a	n/a	<ul style="list-style-type: none"> On 3 September 2012, the No. 4 blast furnace of Liuzhou Iron and Steel Co was formally commissioned (SteelGURU 08-Sep-12). Two 150-mt converters were installed at Liuzhou Iron & Steel on its closure of three 40-mt converters in 2013 (Platts 31-Mar-14).
				LD	x 2	150 (T)	Operating	n/a	-	-	-	n/a	n/a	
		Minmetals Yingkou Medium Plate	Liaoning	BF	x 2	2400 m3	Operating	n/a	-	-	-	n/a	n/a	<ul style="list-style-type: none"> Minmetals Yingkou Medium Plate boosted its crude steel capacity from 3 million tpy to 5 million tpy with the commissioning of two new blast furnaces (2,400 cubic metres) and oxygen converters (Platts 12-Jul-13).
				LD	x 2	n/a	Operating	2000	-	-	-	n/a	n/a	

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	China	Nanjing Iron & Steel	Nanjing, Jiangsu	LD	x 3	100 (T)	Operating	-	3500	-	-	MCC	1200	<ul style="list-style-type: none"> ●The project , designed with 3.5 million tpy of crude steel capacity and the entire Yuan 7 billion (USD 1.2 billion) involves replacing five small blast furnaces and three converters, installing three billet casters, a rod mill, and a plate rolling mill (Platts 27-Nov-13). ●The replacement would eventually take the company's crude steel capacity to 10 million tpy (Platts 27-Nov-13). ●The company carried out a hot run test on converter No. 1 on 23 November 2013 (SteelOrbis 25-Nov-13).
				CC (billet)	x 3	-	Operating	-	3500	-	-	n/a		
				WR	x 1	-	Operating	800	-	-	-	n/a		
				Plate	x 1	-	Operating	1500	-	-	-	n/a		
		Rizhao Steel	Rizhao, Shandong	BF	x 1	2400 m3	Operating	n/a	-	-	-	n/a	n/a	<ul style="list-style-type: none"> ●Rizhao Steel commissioned a 2,400 cubic meter blast furnace in 2013 (Platts 21-Jan-14). ●Once the expansion of the six furnaces is completed by the end of 2014, the steelmaker's capacity is expected to rise from 20 million tpy to 24 million tpy (Platts 21-Jan-14).
				BF	x 6	Expansion	Under Planning	-	n/a	-	-	n/a	n/a	
				Steelmkg	n/a	n/a	Under Planning	-	4000	-	-	n/a	n/a	
		Shaanxi Hanzhong Hanjiang Iron & Steel	Hanzhong, Shaanxi Hangang/Luegang JV	BF	x 4	1280 m3	Under Planning	-	-	-	n/a	n/a	1500	<ul style="list-style-type: none"> ●On 28 September 2009, the newly established company held a groundbreaking ceremony for a 5 million tpy expansion project (Platts 30-Jun-09). ●While the new steelworks will have four 1,280 cubic meter blast furnaces and three 120-tonne converters in Mian county, Hanzhong city, a new 100 t electric arc furnace will be installed at Luegang's plant (Platts 30-Jun-09). ●The whole project is expected to finish in 2015 (Platts 30-Jun-09).
				LD	x 3	120 (T)	Under Planning	-	-	-	4000	n/a		
				EF	x 1	100 (T)	Under Planning	-	-	-	1000	n/a		
				STR	n/a	Rebar Section	Under Planning	-	-	-	4000	n/a	n/a	
				WR	n/a	-	Under Planning	-	-	-	1200	n/a	n/a	
		Shaanxi Longmen Iron & Steel	Shaanxi	Steelmkg	n/a	n/a	Under Planning	-	3000	-	-	n/a	n/a	<ul style="list-style-type: none"> ●Several years ago, Shaanxi Longmen Iron & Steel (Longgang) was looking to boost its crude steel capacity to 10 million tpy by end of its twelfth five year plan (2011-2015) (Platts 21-Apr-10).
				STR	n/a	Rebar	Under Planning	-	3000	-	-	n/a	n/a	
		Shandong Chuanyang Group	Zouping	LD	x 1	120 (T)	Operating	1200	-	-	-	MCC	n/a	<ul style="list-style-type: none"> ●Shandong Chuanyang Group, located in eastern China, hot-tested a 120-mt converter in H1 2013. The company also plans to invest in a second converter (Platts 30-Jul-13).
				LD	x 1	n/a	Under Planning	-	-	-	n/a	n/a	n/a	

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Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	China	Shandong Iron & Steel Group (Shangang)	Xinjiang (Phase 1)	BF	x 1	1080 m3	Operating	1000 (2012)	-	-	-	n/a	485	<ul style="list-style-type: none"> This project is a 1 million tpy long steel project in northwest China's Xinjiang Uyghur autonomous region. Shangdong Iron & Steel Group (Shangang) fired a 1,080 cubic meter blast furnace on 18 December 2012 (Platts 20-Dec-12). The company commissioned a bar mill and a wire rod mill at its Kashgar steelworks in Xinjiang province in 2013. This concludes the Yuan 3 billion (USD 485 million) first phase of the project (Platts 17-Apr-13).
				LD	x 1	80 (T)	Operating	1000	-	-	-	n/a		
				STR	x 1	Rebar	Operating	1000	-	-	-	n/a		
				WR	x 1	-	Operating	500	-	-	-	n/a		
			Xinjiang (Phase 2)	Steelmkg	n/a	n/a	Under Planning	-	-	-	2000	n/a	n/a	<ul style="list-style-type: none"> A second phase of the project is planned to boost steelmaking capacity to about 3 million tpy (Platts 16-Jan-13).
			Rizhao, Shandong	BF	x 2	5100 m3	Under Planning	-	-	-	8100	n/a	9150	<ul style="list-style-type: none"> State-owned Shandong Iron and Steel Group formally started construction work on its Rizhao steel project in June 2013, having received approval for the project from NDRC in April 2013 (SteelOrbis 01-Jul-13). The project involves a total investment of RMB 56.75 billion (USD 9.15 billion) (Platts 04-Apr-13). Although the project was conditional on it absorbing Rigang, no progress has been made so far towards any merger (Platts 25-Apr-13). The Bank of China (BOC) was reported several years ago to provide an aggregate credit line of RMB 50 billion (USD 7.32 billion) to support the Rizhao steel base and other projects (HighBeam Business 11-Feb-09).
				LD	x 4	200 (T) x 2 250 (T) x 2	Under Planning	-	-	-	8500	n/a		
				CC (slab)	x 3	-	Under Planning	-	-	-	8250	n/a		
				Hot	n/a	n/a	Under Planning	-	-	-	n/a	n/a		
				Cold	n/a	n/a	Under Planning	-	-	-	n/a	n/a		
		Shanxi Zhongyang Iron & Steel	Lvliang, Shanxi	LD	x 2	120 (T)	Operating	1500	-	-	-	MCC	n/a	<ul style="list-style-type: none"> The upgraded steel production facilities involves two converters, one continuous casting machine and other related systems and has a capacity to produce 1.5 million tpy of liquid steel (SteelOrbis 10-Sep-13).
				CC	x 1	n/a	Operating	n/a	-	-	-	MCC	n/a	
		Shougang Changzhi Iron & Steel	Changzhi, Shanxi	BF	x 2	3200 m3	Under Planning	-	-	-	n/a	n/a	n/a	<ul style="list-style-type: none"> Shougang Changzhi Iron & Steel has received approval from the Shanxi provincial government to start an expansion project to replace some of its outdated capacity. The expansion will include the introduction of two blast furnaces and two converters (Platts 04-Jan-11).
				LD	x 2	210 (T)	Under Planning	-	-	-	5000	n/a	n/a	
		Shougang Yili Iron & Steel	Yili, Xinjiang Uygur (Phase 2)	Steelmkg	n/a	n/a	Under Planning	-	-	3000	-	n/a	n/a	<ul style="list-style-type: none"> A second phase expansion will be launched to increase the company's capacity to 5 million tpy by the end of 2015 (Platts 11-May-11).
		Tianjin Zhasan Youfa Iron & Steel	Jinghai, Tianjin	BF	x 1	1260 m3	Operating	1200	-	-	-	MCC Huatian	n/a	<ul style="list-style-type: none"> On 16 May 2013, Tianjin Zhasan Youfa Iron & Steel commissioned its second blast furnace (Platts 22-May-13).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	China	Tonghua Iron & Steel Group	Tonghua	BF	x 1	3200 m3	Under Planning	-	2500	-	-	n/a	1500	<ul style="list-style-type: none"> Several years ago, Shougang signed a deal with the Tonghua Economic Development District to base its subsidiary Tonghua Iron & Steel's new 2.7 million tpy integrated mill in the area (Platts 09-Sep-10). The new investment was reported to worth RMB 10bn (USD 1.5bn) (Platts 09-Sep-10). MBR reported that this project has yet approved (MBR capex Q4 2013).
				LD	x 2	120 (T)	Under Planning	-	2700	-	-	n/a		
				CC (billet)	x 1	-	Under Planning	-	1200	-	-	n/a		
				CC (bloom)	x 1	-	Under Planning	-	1000	-	-	n/a		
				STR	x 1	Section	Under Planning	-	1000	-	-	n/a		
		Xinjiang Bagang Nanjiang Steel Baicheng	Nanjiang	BF	x 2	1800 m3	Operating	3000	-	-	-	n/a	1400	<ul style="list-style-type: none"> Construction at the Nanjiang project, which cost an estimated RMB 8.8 billion (USD 1.4 billion), started in August 2010 in the Nanjiang area. Xinjiang Bagang Nanjiang Steel Baicheng (Nanjiang) commissioned its No. 1 blast furnace on 28 March 2013 (Platts 05-Apr-13). The project involves two 1,800 cubic meters blast furnaces, two 120 mt converters, two bar mills each of 850,000 tpy capacity, one 600,000 tpy high-speed rod mill and a 500,000 tpy strip facility (Platts 05-Apr-13). The central government's keenness to develop western China's economy has over the past 2-3 years produced a rush of new steel projects in Xinjiang that threatens to produce an oversupply (Platts 21-Aug-13).
				LD	x 2	120 (T)	Operating	3000	-	-	-	n/a		
				CC (billet)	x 2	-	Operating	n/a	-	-	-	n/a		
				STR	x 2	Bar	Operating	1700	-	-	-	n/a		
				WR	x 1	High-speed rod	Operating	600	-	-	-	n/a		
				Hot	x 1	-	Operating	500	-	-	-	n/a		
		Xinjiang Bayi Iron & Steel	Urumqi, Xinjiang-uygur	DR	x 2	Corex	Under Construction	-	3000	-	-	n/a	n/a	<ul style="list-style-type: none"> Baosteel has been relocating two Corex C3000 ironmaking units to its Bayi Iron & Steel subsidiary (Platts 01-May-14).
		Xinjiang Da'an Special Steel	Xinjiang Uyghur (Phase 1)	BF	x 1	1080 m3	Operating	n/a	-	-	-	n/a	n/a	<ul style="list-style-type: none"> Da'an Special Steel commissioned its new greenfield integrated steelworks in Hami city in China's Xinjiang Uyghur autonomous region in August 2013 (Platts 08-Aug-13). The company had planned to complete a combined 2 million tpy of finished steel capacity by end-2015, including a second blast furnace, as it had initially planned (Platts 08-Aug-13). In the first phase, the company installed a 1,080 cubic meter blast furnace, a 120-mt converter and a continuous caster (Platts 08-Aug-13).
				LD	x 1	120 (T)	Operating	1000	-	-	-	n/a	n/a	
				CC	x 1	n/a	Operating	1000	-	-	-	n/a	n/a	
				WR	x 1	-	Operating	1000	-	-	-	n/a	n/a	
			Xinjiang Uyghur (Phase 2)	BF	x 1	n/a	Under Planning	-	-	n/a	-	n/a	n/a	<ul style="list-style-type: none"> Da'an is one of several steel projects in Xinjiang that have been delayed because of difficulties in financing and overcapacity issues (Platts 08-Aug-13).
				Steelmkg	n/a	n/a	Under Planning	-	-	1000	-	n/a	n/a	

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Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	China	Xinxing Ductile Iron Pipes Xinjiang	Xinjiang-uygur (Phase 2)	Steelmkg	n/a	n/a	Under Construction	-	-	2000	-	n/a	806	<ul style="list-style-type: none"> On 6 September 2013, Xinxing Ductile Iron Pipes Xinjiang held an opening ceremony in Xinjiang Uygur Autonomous Region for the second phase of its 3 million tpy integrated steel project (Platts 11-Sep-13). Xinxing Ductile Iron Pipes intended to raise a total of Yuan 3.87 billion through the issue, of which Yuan 3.2 billion would be allocated to finance its Xinjiang subsidiary's 2 million tpy expansion (Platts 20-Nov-13). The whole project was estimated to cost Yuan 4.97 billion (USD 806 million) (Platts 11-Sep-13).
				CC (billet)	x 1	Round billet	Under Construction	-	-	340	-	n/a		
				STR	x 2	Bar Section	Under Construction	-	-	1400	-	n/a		
				Pipe	x 1	Ductile iron pipe	Under Construction	-	-	300	-	n/a		
		Xinjiang Kunlun Iron & Steel	Xinjiang	BF	x 1	630 m3	Operating	800	-	-	-	n/a	n/a	<ul style="list-style-type: none"> Xinjiang Kunlun Iron & Steel commissioned a new rebar mill in 2013, with a capacity of 1 million tpy. A 630 cubic meter blast furnace and two 60 mt converters had previously been installed (Platts 16-May-13). While the converters could be ramped up to produce over 1 million tpy, the blast furnace could only produce some 800,000 tpy (Platts 16-May-13).
				LD	x 2	60 (T)	Operating	1000	-	-	-	n/a	n/a	
				STR	x 1	Rebar	Operating	1000	-	-	-	n/a	n/a	
		Xinjiang Kunyu Iron & Steel	Xinjiang	BF	x 3	450 m3	Operating	1800	-	-	-	n/a	n/a	<ul style="list-style-type: none"> Xinjiang's rich raw material resources for steelmaking and strong local fixed asset investment have attracted a number of steel mills to invest in new capacities in the region, particularly for long products (Platts 11-Jun-13). In June 2013, Xinjiang Kunyu Iron & Steel commissioned a new integrated longs mill comprising three blast furnaces (Platts 08-Aug-13).
				LD	x 2	50 (T)	Operating	1800	-	-	-	n/a	n/a	
				STR	x 1	Bar	Operating	1100	-	-	-	n/a	n/a	
				WR	x 1	High speed wire rod	Operating	700	-	-	-	n/a	n/a	
		Xuzhou Huahong Special Steel	Jiangsu (Phase 1)	BF	x 2	1080 m3	Operating	n/a	-	-	-	n/a	401	<ul style="list-style-type: none"> The company is ramping up production on the first stage of its newly commissioned greenfield integrated plant (Platts 31-Jan-13). On 18 January 2013, the company fired its first of two 1,080 cubic meters blast furnace (Platts 31-Jan-13).
				Steelmkg	n/a	n/a	Operating	1500	-	-	-	n/a		
			Jiangsu (Phase 2)	BF	x 2	1080 m3	Under Planning	n/a	-	-	-	n/a	449	<ul style="list-style-type: none"> The company plans to add 1.5 million tpy capacity and double its capacity to 3 million tpy by the end of 2013 (Platts 31-Jan-13). The first stage costs the steelmaker approximately Yuan 2.5 billion and expansion is budgeted at Yuan 2.8 billion (Platts 31-Jan-13). In the phase 2, the company will install two more blast furnaces, each of the same inner volume, together with continuous casting and rolling facilities (Platts 31-Jan-13).
				Steelmkg	n/a	n/a	Under Planning	1500	-	-	-	n/a		
				CC	n/a	n/a	Under Planning	1500	-	-	-	n/a		
				Rolling	n/a	n/a	Under Planning	n/a	-	-	-	n/a		

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	China	Yongchang Iron & Steel	Yunnan	BF	x 1	1080 m3	Operating	950	-	-	-	CFMCC	n/a	<ul style="list-style-type: none"> Yongchang Iron and Steel commissioned its 1 million tpy blast furnace with an inner volume of 1,080 cubic meter on 20 August 2013 (Platts 29-Aug-13). The company commissioned a 800,000 tpy bar mill in 2012 (Platts 29-Aug-13).
				LD	x 1	100 (T)	Operating	1000	-	-	-	n/a	n/a	
				CC (billet)	x 1	-	Operating	1000	-	-	-	n/a	n/a	
				STR	x 1	Bar	Operating	800 (2012)	-	-	-	n/a	42	
	Chinese taipei	Dragon Steel	Taichung	BF	x 1	3274 m3	Operating	2550	-	-	-	Siemens-VAI	n/a	<ul style="list-style-type: none"> Dragon Steel Corp, a subsidiary of China Steel Corp (CSC), fired up its 2.5 million tpy No. 2 blast furnace at its Taichung works on 5 March, 2013. The second blast furnace is part of a TWD 20 billion second stage expansion and will be the sixth blast furnace operated by the CSC group (Platts 06-Mar-13).
				LD	x 1	210 (T)	Operating	2000	-	-	-	SMS Siemag	n/a	
				CC (slab)	x 1	-	Operating	2000	-	-	-	Siemens-VAI	n/a	
	India	Adhunik Group	Karnataka	Steelmkg	n/a	n/a	Under Planning	-	-	-	2200	n/a	n/a	<ul style="list-style-type: none"> A few years ago, Adhunik Metaliks signed a MOU with the government of Karnataka to set up a greenfield steel plant (SteelGURU 05-Jun-10).
			West Bengal	Steelmkg	n/a	n/a	Under Planning	1100	-	-	-	n/a	n/a	<ul style="list-style-type: none"> A couple of years ago, Adhunik Corp planned to build a 1.1 million tpy integrated steel plant in West Bengal (Platts 10-Dec-09).
		ArcelorMittal	Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	12000	n/a	n/a	<ul style="list-style-type: none"> ArcelorMittal has signed separate memoranda of understanding with the governments of three states to build a 6 million tpy steel plant in Karnataka and 12 million tpy plants in Jharkhand and Odisha. In July 2013, the company decided not to progress with the construction of the plant in Odisha, but indicated that it would continue to pursue its two other projects in Jharkhand and Karnataka (ArcelorMittal HP 17-Jul-13).
			Karnataka	Steelmkg	n/a	n/a	Under Planning	-	-	-	6000	n/a	n/a	
			Odisha	Steelmkg	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	
		Bhushan Power & Steel	Jharkhand	BF	x 1	1700 m3	Under Planning	-	-	-	n/a	n/a	n/a	<ul style="list-style-type: none"> Bhushan Power & Steel Ltd (BPSL) is working to acquire land for its proposed 3 million tpy integrated steelworks near Jamshedpur in the eastern state of Jharkhand. However, it is reported that the firm has faced with local resistance and delays (Platts 05-Apr-10). The company intends this works to produce hot rolled coils and plates (Platts 05-Apr-10). The company has begun negotiations with plantmaker Paul Wurth for a 1,700 cubic metre blast furnace (Platts 05-Apr-10).
				Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	
				Plate	n/a	n/a	Under Planning	-	-	-	n/a	n/a	n/a	
				Hot	n/a	n/a	Under Planning	-	-	-	n/a	n/a	n/a	
		Bhushan Steel	West Bengal	Steelmkg	n/a	n/a	Under Planning	-	-	-	6000	n/a	n/a	<ul style="list-style-type: none"> The company has deferred the project due to government's decision not to acquire land for industry (The Economic Times 05-Feb-12).
			Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	<ul style="list-style-type: none"> Land acquisitions for Bhushan Steel's proposed 3 million tpy integrated plant in Jharkhand have faced delays (Platts 20-Nov-08).
			Karnataka	Steelmkg	n/a	n/a	Under Planning	-	-	-	6000	n/a	5600	<ul style="list-style-type: none"> Bhushan Steel plans to build a 6 million tpy steel plant in Karnataka at an investment of USD 5.6 billion (Rs 279.3billion) (Mineweb 10-Feb-12).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	India	Bhushan Steel	Meramandali, Odisha	BF	x 1	3814 m3	Operating	-	2550	-	-	Paul Wurth	2770	<ul style="list-style-type: none"> ●Bhushan Steel has added a blast furnace at its plant at Angul in the state of Odisha to increase total steelmaking capacity to 5.2 million tpy. An invested of over Rs 150000M (USD 2.77bn) was made to expand the plant (Steel Times 28-May-13). ●The second blast furnace has started operations since February 2014 and expects it to reach full capacity by June 2014 (Platts 05-Mar -14). ●The company has reaffirmed plans to build a 1.8 million tpy cold rolled sheet complex at Meramandali (Platts 22-Jan-13). ●The company also plans to build a 350,000 tpy electrical steel plant at Meramandali (Platts 22-Jan-13).
				LD	x 2	180 (T)	Operating	-	3000	-	-	n/a		
				CC (slab)	x 2	-	Operating	-	3000	-	-	n/a		
				Cold	x 1	-	Under Planning	-	-	-	1800	SMS Siemag	n/a	
				Silicon	x 1	-	Under Planning	-	-	-	350	n/a	n/a	
		Bmm Ispat	Hospet, Karnataka	EF	x 1	110 (T)	Under Construction	-	-	1100	-	Siemens-VAI	n/a	<ul style="list-style-type: none"> ●BMM Ispat has ordered an electric arc furnace for the ongoing 2 million tpy expansion in Karnataka state (Platts 24-Jul-12). ●The total investment will be around INR 6,700 crore for this project and the project is being financed by a consortium of 16 banks led by SBI and includes PNB and Exim bank. The company is expected to commission its steel plant in 3-4 years (SteelGURU 07-Aug-12).
				CC (billet)	x 1	-	Under Construction	-	-	1100	-	n/a	n/a	
				STR	x 1	Bar	Under Construction	-	-	850	-	Siemens-VAI	n/a	
		Electrosteel Steels	Bokaro, Jharkhand	BF	x 3	1050 m3 x 2 350 m3 x 1	Under Construction	-	2200	-	-	n/a	n/a	<ul style="list-style-type: none"> ●Electrosteel Steels Ltd (ESL) has signed a pact with China's Laiwu Steel Group for assistance in commissioning ESL's greenfield integrated steelworks in Bokaro in Jharkhand state (Platts 17-Nov-11). ●The steelworks will have two blast furnaces of 1,050 cubic metres each that would feed two 60-t BOFs (Platts 17-Nov-11). ●For the purpose of long-term project funding, the company planned to raise Rs 2,300 crore through a debt syndication with a consortium of bankers led by the State Bank of India (SBI) for its steel project (Projectsinfo 05-Dec-12).
				LD	x 2	60 (T)	Under Construction	-	1470	-	-	n/a	n/a	
				CC (billet)	x 2	-	Under Construction	-	1470	-	-	n/a	n/a	
				STR	x 1	Bar	Under Construction	-	700	-	-	n/a	n/a	
				WR	x 1	-	Under Construction	-	500	-	-	n/a	n/a	
		Essar Steel	Bastar, Chhattisgarh	Steelmkg	n/a	n/a	Under Planning	-	-	-	3200	n/a	n/a	●Essar steel had planned to build a 3.2 million tpy steel plant in Chhattisgarh (Ministry of Steel 24-Nov-11).
			Chaibasa, Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●Essar steel had planned to build a 3.0 million tpy steel plant in Jharkhand (Ministry of Steel 24-Nov-11).
			Bellary, Karnataka	Steelmkg	n/a	n/a	Under Planning	-	-	-	6000	n/a	n/a	●Essar Steel has signed a MOU with the government of Karnataka to set up a 6 million tpy steel plant (MB 10-Feb-09).
			Odisha	Steelmkg	n/a	n/a	Under Planning	-	-	-	6000	n/a	n/a	●Essar steel had planned to build a 6.0 million tpy steel plant in Odisha. Proposed project cost is Rs.22,600 crores (Ministry of Steel 24-Nov-11).
		Jai Balaji Industries	West Bengal (Phase 1)	Steelmkg	n/a	n/a	Under Planning	2000	-	-	-	n/a	410	<ul style="list-style-type: none"> ●The initial phase is expected to be completed by mid-2013 and cost Rs 18.7bn (USD 410m) of which the bulk will be financed through a consortium of banks headed by State Bank of India (Platts 24-Jan-11).
			West Bengal (Phase 2)	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	India	Jindal Stainless	Odisha	Steelmkg	n/a	n/a	Under Planning	-	-	-	1000	n/a	n/a	●Jindal Stainless is planning to double its Odisha plant capacity to 2 million tpy (The Economic Times 25-Apr-13).
		Jindal Steel & Power Ltd (JSPL)	Angul, Odisha	DR	x 1	Midrex	Under Construction	1800	-	-	-	n/a	10000	●Jindal Steel & Power Ltd (JSPL) is aiming to increase Angul's capacity to 6.5 million tpy by FY 16 (JSPL HP 3-Apr-14)
				EF	x 1	250 (T)	Operating	2500	-	-	-	SMS Siemag		●The company commissioned a 250-metric ton electric arc furnace at Angul in the eastern state of Odisha in August 2013 as part of its new 6 million tpy integrated steelworks. The electric arc furnace has a capacity of 2.5 million tpy and is the largest in size in India and second in Asia, smaller only than some Japanese furnaces (Platts 08-Aug-13).
				CC (billet)	x 1	-	Under Construction	-	1500	-	-	n/a		●The company has commissioned a slab caster (Platts 24-Jan-14).
				CC (slab)	x 1	-	Operating	1800	-	-	-	Siemens Metals		●The Angul works will also host a 1.5 million tpy billet caster, planned to be commissioned by June 2014, followed by a 1.4 million tpy rebar mill scheduled for commissioning that October 2014 (Platts 08-Aug-13).
				Plate	x 1	-	Operating	1500 (2012)	-	-	-	Siemens-VAI	n/a	
				STR	x 1	Rebar	Under Construction	-	1400	-	-	n/a	n/a	
			Angul, Odisha (Expansion)	DR	n/a	n/a	Under Planning	-	-	2750	-	Tenova Danieli	n/a	●A second DRI plant with 2.75 million tpy capacity supplied by a consortium of Tenova and Danieli will be commissioned by 2015 (Platts 15-May-13).
				LD	x 2	250 (T)	Under Construction	-	-	3800	-	SMS Siemag	n/a	●JSPL has contracted SMS Siemag to supply a BOF (Platts 15-May-13).
			Asanboni, Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	5000	n/a	n/a	●Jindal Steel & Power Ltd (JSPL) is building a 5 million tpy integrated steelworks at Asanboni in Jharkhand (Platts 03-Oct-11).
			Patratu, Jharkhand (Phase 1)	BF	x 1	4019 m3	Under Construction	-	2700	-	-	Siemens-VAI	10000	●Jindal Steel & Power Ltd (JSPL) plans to increase its Patratu capacity to 12 million tpy with a total investment of USD 10 billion. The first phase involves a 3 million tpy steel plant at Patratu near Ranchi (Tex Report, 2014).
				LD	x 2	200 (T)	Under Construction	-	3200	-	-	MCC		●The steelworks will include a blast furnace from Siemens VAI that will produce 2.7 million tpy of hot metal and feed a converter shop ordered from China Metallurgical Group Corp (Platts 21-Dec-10).
				CC (billet)	x 2	-	Under Construction	-	3200	-	-	SMS Concast		
			Patratu, Jharkhand (Phase 2)	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a		
			Raigarh, Chhattisgarh	DR	x 1	Hyl	Under Construction	-	-	-	2750	n/a	6000	●Jindal Steel & Power Ltd (JSPL) plans to increase its Raigarh plant's capacity to 7 million tpy with a 2 million tpy cement plant and a 1600 MW captive power plant. Total investment cost is over USD 6 billion (Tex Report, 2014).
				EF	n/a	n/a	Under Planning	-	-	-	4000	n/a		
				Plate	n/a	n/a	Under Planning	-	-	-	n/a	n/a		
		JSW Ispat Steel	Dolvi, Maharashtra	BF	x 1	2581 →4323 m3	Under Planning	-	-	-	n/a	Nippon Steel & Sumikin Engineering	n/a	●Nippon Steel & Sumitomo Metal Corp and Marubeni Corp have been awarded a contract to remodel a blast furnace (Platts 10-Feb-14).
				Steelmkg	n/a	n/a	Under Planning	-	-	-	1700	n/a	n/a	●Crude steelmaking capacity at its Dolvi works is expected to be lifted to 5 million tpy by early 2015 (Platts 04-Feb-14).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	India	JSW Ispat Steel	Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	2800	n/a	n/a	●Ispat Industries signed a MOU with the Jharkhand government in 2007 for a 2.8 million tpy integrated plant (Platts 16-Jul-08).
		JSW Steel	Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	10000	n/a	n/a	●A MoU was signed with the government of Jharkhand for setting up a 10 million tpy integrated steel plant (JSW HP).
			Kendrapara, Odisha	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000 or 10000	n/a	n/a	●JSW is exploring the possibility of establishing a steel plant in Kendrapara district in Odisha (Business Standard 29-Jul-13).
			Salboni, West Bengal (Phase 1)	BF	x 1	4020 m3	Under Planning	-	-	-	n/a	n/a	n/a	●JSW Steel was expected to begin the first phase construction of its steelworks in West Bengal in October 2012 (Platts 12-Jun-12).
				Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●The project was reported to be facing delays due to uncertainties related to iron ore supply to the plant (Hindustan Times 29-Apr-13).
			Salboni, West Bengal (Phase 2 or later)	BF	x 2	4020 m3	Under Planning	-	-	-	n/a	n/a	n/a	●In the second and final phase, the steelworks would have another two 4,020 cubic metre furnaces (Platts 12-Jun-12).
				Steelmkg	n/a	n/a	Under Planning	-	-	-	7000	n/a	n/a	●The works will produce long products exclusively for construction applications (Platts 12-Jun-12).
			Vijayanagar, Karnataka	DR	x 1	Midrex	Under Construction	1200	-	-	-	Siemens-VAI	n/a	●JSW Steel is slowing expansion work at its Vijayanagar steelworks in the southern state of Karnataka owing to a lack of guaranteed iron ore supplies (Platts 19-Mar-13). ●Crude steel production capacity at Vijayanagar was to be lifted to 12 million tpy from 10 million tpy, with the expansion set for completion in 2013. The expansion was to be achieved partly through the installation of a 1.2 million tpy direct reduced iron plant and partly through work on three of the plant's blast furnaces (Platts 19-Mar-13). ●The company commissioned a new 1.4 million tpy slab caster at its Vijayanagar works in December 2013 (Platts 18-Dec-13). ●The company has inaugurated a 2.3 million tpy cold rolling mill complex that will aim to supply high-end sheet to the automotive (Platts 28 Apr-14).
				Steelmkg	n/a	n/a	Under Planning	2000	-	-	-	n/a	n/a	
				CC (slab)	x 1	-	Operating	1400	-	-	-	Siemens-VAI	n/a	
				Plate	x 1	-	Under Planning	1500	-	-	-	n/a	n/a	
				Cold	x 1	Automotive sheet	Operating	2300	-	-	-	SMS Siemag	n/a	
				HGL	n/a	Automotive sheet	Operating	400	-	-	-	Steel Plantech	n/a	
		Kalyani Steels	Karnataka	Steelmkg	n/a	Special steel	Under Planning	-	-	-	6000	n/a	n/a	●Kalyani Steels has signed a MOU with the Karnataka state for building two steelworks of 3 million tpy capacity each (Platts 18-Jun-12).
		Mideast Integrated Steel (Mesco Group)	Kalinganagar (Phase 2)	BF	x 1	3200 m3	Under Planning	-	-	-	n/a	n/a	n/a	●Mideast Integrated Steels is planning to raise external commercial borrowing to the tune of USD 500 million to fund the expansion project (SteelGURU 27-Jan-14).
				LD	x 2	100 (T)	Under Planning	-	-	-	2300	n/a	n/a	●In the second phase, the company will install one blast furnace of a size of 3200 cubic meter, two BOF converters of 100 tonnes capacity each, another 5-strand billet caster and a slab caster (Mesco Steel HP).
				CC	x 2	Billet Slab	Under Planning	-	-	-	n/a	n/a	n/a	
		Monnet Ispat & Energy (MIEL)	Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	1500	n/a	n/a	●MIEL's efforts to develop a steelworks in Jharkhand have been put on hold due to land allocation (Platts 12-Feb-14).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	India	Monnet Ispat & Energy (MIEL)	Raigarh, Chhattisgarh	BF	x 1	550 m3	Operating	500	-	-	-	Chinese vendor	n/a	●MIEL commissioned its EAF at Raigarh in November 2013 and the second EAF is expected to commission in March 2014. With the second EAF, the company will have a capacity of 1.5 million tpy (Platts 12-Feb-14). ●Both EAFs have a charge capacity of 100 mt and are able to operate at 25 heats/day (Platts 12-Feb-14). ●The Raigarh works also hosts a 550 cubic meter blast furnace and a new 500,000 tpy rebar mill (Platts 12-Feb-14).
				EF	x 2	100 (T)	Under Construction	750	750	-	-	n/a	n/a	
				CC (bloom)	x 1	-	Under Construction	700	-	-	-	Danieli	n/a	
				STR	x 1	Rebar	Operating	500 (2012)	-	-	-	n/a	n/a	
				Plate	x 1	-	Under Construction	600	-	-	-	Danieli	n/a	
		National Mineral Development Corp (NMDC)	Nagarnar, Chhattisgarh	BF	x 1	4506 m3	Under Construction	-	-	3000	-	Danieli Corus Tata Projects	n/a	●State-owned Indian miner NMDC was seeking a minority joint venture partner for the 3 million tpy integrated steelworks at Nagarnar in Chhattisgarh state. The partner can hold up to a maximum of 49% equity shareholding in the venture (Platts 14-Mar-13). ●The company has awarded a contract to a consortium of Danieli Corus and Tata Projects Ltd for a blast furnace (Platts 25-May-11). ●The construction of the new steelworks will be one of the top priorities for the company (Platts 24-Apr-14).
				LD	x 2	175 (T)	Under Construction	-	-	3000	-	Siemens-VAI	400	
				CC (slab)	x 1	Thin Slab	Under Construction	-	-	2900	-	Danieli Bricmont	472	
				Hot	x 1	-	Under Construction	-	-	2900	-	Danieli Bricmont		
			Karnataka, JV with Severstal	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●Severstal decided to withdraw from the project to build a 3 million tpy steelworks in Karnataka state (Platts 25-Jun-13).
		Neelachal Ispat Nigam Ltd (NINL)	Kalinganagar, Odisha	LD	x 1	110 (T)	Operating	1000	-	-	-	SMS Siemag	n/a	●On March 30 2013, Indian state-owned pig iron producer Neelachal Ispat Nigam Ltd (NINL) commissioned a 110-mt basic oxygen furnace and a continuous billet caster at its Kalinganagar works (Platts 04-Apr-13). ●The company also plans to install a 700,000 tpy bar and rod mill but the project would be progressed only after billet production has stabilized (Platts 04-Apr-13).
				CC (billet)	x 1	-	Operating	920	-	-	-	SMS Siemag	n/a	
				STR	x 1	Bar Wire rod	Under Planning	-	-	-	700	n/a	n/a	
		Neo Metaliks	West Bengal	Steelmkg	n/a	n/a	Under Planning	-	-	-	1500	n/a	n/a	●Neo Metaliks planned to build a 1.5 million tpy greenfield integrated steel plant in West Bengal (Neo Metaliks HP).
		POSCO India	Karnataka	Steelmkg	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	●POSCO finally decided not to progress with the project due to delays in obtaining iron ore mining rights and securing land (POSCO HP 16-Jul-13).
			Odisha (Phase 1-3)	Steelmkg	n/a	n/a	Under Planning	-	-	-	12000	n/a	12000	●POSCO will build a steelworks in three stages (Platts 17-Jan-14). ●The company has received conditional approval from India's environment ministry to construct its steelworks (Platts 13- Jan-14). ●The company aims to begin construction in 2014 and start operations by early 2018 (Platts 09-Oct-13). ●Total Investment: USD 12 billion (POSCO India HP).
				CC (slab)	n/a	-	Under Planning	-	-	-	12000	n/a		
				Hot	n/a	-	Under Planning	-	-	-	12000	n/a		

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Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	India	POSCO & SAIL JV	Bokaro, Jharkhand	DR	n/a	Finex	Under Planning	-	-	-	3000	n/a	n/a	<ul style="list-style-type: none"> ●SAIL and POSCO have signed a MoU for commencing a feasibility study to establish a joint venture company with FINEX technology facility (The Hindu Business Line 16-Nov-11). ●In Jharkhand, SAIL and POSCO are proposing to build a 3 million tpy Finex-based steelworks and other downstream facilities for products such as non grain-oriented electrical sheets (Platts 17-Nov-11).
				LD	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	
				Silicon	n/a	NGO	Under Planning	-	-	-	n/a	n/a	n/a	
		Rashtriya Ispat Nigam Ltd (RINL)	Visakhapatnam, Andhra Pradesh	BF	x 1	3200 →3800 m3	Under Construction	-	1200	-	-	n/a	n/a	<ul style="list-style-type: none"> ●Rashtriya Ispat Nigam Ltd (RINL) is aiming to increase its capacity to 20 million tpy capacity by 2020 (Platts 27-Dec-13). ●The company has signed a MoU with the Andhra Pradesh state government to invest about Rs 424bn (USD 8.2bn) for several new projects at its Vizag Steel Plant (Platts 17-Jan-12). ●The company is presently completing expansion to 6.3 million tpy capacity from 3 million tpy previously and is aiming to increase its capacity to 11.5 million tpy at a later stage (Platts 17-Jan-12). ●On 24 April 2012, the company commissioned its third blast furnace with an inner volume of 3814 cubic meter (Business Line 25-Apr-12). ●On 20 October 2013, the company's No. 1 blast furnace was blown down for a reline and modernisation (Platts 06-Nov-13). ●The new oxygen steelmaking shop tapped its first heat on 30 October 2013 (Platts 31-Dec-13). ●RINL has contracted Siemens to renew its No. 2 blast furnace as part of a project to expand capacity (Platts 01-Oct-13).
				BF	x 1	3200 →3820 m3	Under Construction	-	-	800	-	Siemens	n/a	
				BF	x 1	3814 m3	Operating	2500 (2012)	-	-	-	Paul Wurth Larsen & Toubro	n/a	
				LD	x 2	150 (T)	Operating	2800	-	-	-	SMS Siemag	n/a	
				CC (billet)	x 2	-	Operating	1860	-	-	-	Danieli	n/a	
				CC (bloom)	x 1	-	Operating	930	-	-	-	Danieli	n/a	
				STR	x 2	Bar Section	Operating	1550	-	-	-	n/a	n/a	
				WR	x 1	-	Operating	600	-	-	-	n/a	n/a	
		Ruchi Group	Gujarat, JV with Mitsui and Co. Ltd	Steelmkg	n/a	n/a	Under Planning	-	-	-	1200	n/a	1000	<ul style="list-style-type: none"> ●This project has been put on hold due to the ongoing downturn in the Indian economy (HT Media 16-Sep-13).
		Steel Authority of India Ltd (SAIL)	Bhilai, Chhattisgarh	BF	x 1	4060 m3	Under Construction	-	-	2800	-	Paul Wurth Larsen & Toubro	n/a	<ul style="list-style-type: none"> ●Steel Authority of India Ltd (SAIL) is aiming to increase its capacity to 50 million tpy by 2025 in line with the target to achieve 300 million tpy of national production capacity (Platts 24-Sep-13). ●The company laid the foundations for a new blast furnace No. 8 and a new basic oxygen steelmaking shop (Platts 15-Mar-13). ●An eighth blast furnace will be installed as part of ongoing expansion to lift Bhilai's crude steelmaking capacity to 7 million tpy and the blast furnace is expected to be completed by 2015 (Platts 24-Mar-14). ●According to Plantfacts Capacity Database, its two old blast furnaces and OHFs will be decommissioned (World Steel Dynamics).
				LD	x 3	180 (T)	Under Construction	-	-	4000	-	Siemens-VAI	n/a	
				CC (billet)	x 2	-	Under Construction	-	-	1800	-	Siemens-VAI	n/a	
				CC (bloom)	x 2	-	Under Construction	-	-	1900	-	Siemens-VAI	n/a	
				STR	x 2	Bar, Wire rod Rail	Under Construction	-	-	2100	-	SMS Meer, ABB Danieli	n/a	

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	India	Steel Authority of India Ltd (SAIL)	Burdur, West Bengal (IISCO)	BF	x 1	4060 m3	Under Construction	-	2750	-	-	POSCO E&C	n/a	<ul style="list-style-type: none"> ● SAIL's IISCO works will have a 4,060 cubic meter blast furnace with a capacity of 2.75 million tpy, a new steel shop comprising three 150-t basic oxygen furnaces, two 6-strand billet casters, one 4-strand beam-blank and bloom caster and new downstream facilities (Platts 22-May-13). ● The new blast furnace has a capacity of 2.75 million tpy and is built by POSCO Engineering & Construction (Platts 08-Oct-13). ● At IISCO Burnpur works, the coke battery, sinter plant and wire rod mill have been completed. Coke and sinter are being dispatched to sister plants. The blast furnace and oxygen plant are ready for commissioning (Platts 02-Jan-14). ● According to Plantfacts Capacity Database, its open hearth meltshop will be decommissioned (World Steel Dynamics).
				LD	x 3	150 (T)	Under Construction	-	2900	-	-	SMS Siemag	1200	
				CC (billet)	x 2	-	Under Construction	-	2000	-	-	Siemens-VAI	n/a	
				CC (bloom)	x 1	-	Under Construction	-	750	-	-	Siemens-VAI	n/a	
				STR	x 2	Bar Section	Under Construction	-	1350	-	-	SMS Meer Danieli	n/a	
				WR	x 1	-	Operating	500	-	-	-	Danieli	n/a	
			Rourkela, Odisha	BF	x 1	4060 m3	Operating	2500	-	-	-	Danieli Tata Projects	n/a	<ul style="list-style-type: none"> ● This project is part of an ongoing expansion at Rourkela aimed at lifting crude steelmaking capacity to 4.2 million tpy from 1.9 million tpy presently (Platts 11-Mar-13). ● On 10 August 2013, SAIL commissioned a new blast furnace ("Durga") at its Rourkela Steel Plant (RSP) in Odisha State. The blast furnace has become the largest in India with a useful volume of 4,060 cubic meter (SAIL HP 10-Aug-13). ● With the start of the new furnace, the company's hot metal capacity at its Rourkela Steel Plant increased to 4.5 million tpy from its present capacity of 2 million tpy (SAIL HP 10-Aug-13). ● The hot strip is expected to produce sheet for high-end uses in the automotive and white goods industries (Platts 11-Nov-13).
				LD	x 1	150 (T)	Operating	2300	-	-	-	n/a	n/a	
				CC (slab)	x 1	-	Operating	1500	-	-	-	SMS Demag	82	
				Plate	x 1	-	Operating	920	-	-	-	Danieli	n/a	
				Hot	x 1	Automotive sheet	Under Planning	-	-	-	3000	n/a	n/a	
				Cold	x 1	-	Under Planning	-	-	-	1200	n/a	789	
			Sindri, Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	5600	n/a	n/a	● SAIL plans to build a new steel plant at the site of the former plant of FCIL at Sindri (The Economic Times 15-Sep-13).
		Sesa Goa (Vedanta Group)	Jharkhand	Steelmkg	n/a	n/a	Under Planning	-	-	-	1500	n/a	n/a	● Sesa Goa is likely to sign a MoU with the Jharkhand government for a new steel plant (Infrawindow.com 30-Apr-12).
		Shyam SEL & Power (Shyam Group)	West Bengal	Steelmkg	n/a	n/a	Under Planning	-	-	-	1100	n/a	n/a	● A couple of years ago, Shyam SEL & Power Ltd planned to build a greenfield integrated steelworks in West Bengal (SteelGURU 03-Sep-11).
		Shyam Steel Industries	West Bengal	Steelmkg	n/a	n/a	Under Planning	-	-	-	1100	n/a	n/a	● Shyam Steel Industries has obtained land from the state government by the end of March 2010 (Platts 17-Feb-10).
		Surya Roshni	Karnataka	Steelmkg	n/a	n/a	Under Planning	-	-	-	5000	n/a	n/a	● In June 2010, Surya Roshni signed a MoU with the state government (Thaindian.com 14-Jul-10).
		Tata Sponge Iron	Keonjhar, Odisha	Steelmkg	n/a	n/a	Under Planning	-	-	-	1500	n/a	n/a	● In January 2010, the Odisha government approved proposals for setting up a steel plant by Tata Sponge Iron (Business Standard 27-Jan-10).
		Tata Steel	Bastar, Chhattisgarh	Steelmkg	n/a	n/a	Under Planning	-	-	-	5000	n/a	n/a	● The project has so far seen limited progress as the government is yet to acquire land to be transferred to the steelmaker (Platts 20-Jul-12).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	India	Tata Steel	Kalinganagar, Odisha (Phase 1)	BF	x 1	4300 m3	Under Construction	-	3200	-	-	n/a	n/a	●Tata Steel signed a MoU with the government of Odisha to set up a 6 million tpy integrated steel plant in the Kalinganagar industrial complex at Jajpur in 2004 (Tata Steel HP). ●Tata Steel began construction of the Kalinganagar works in Odisha in January 2011. The company expects to commission the first phase of its integrated mill by 2014-15 (Platts 24-Apr-12).
				LD	x 2	310 (T)	Under Construction	-	3100	-	-	SMS Siemag	2200	
				CC (slab)	x 1	-	Under Construction	-	3000	-	-	SMS Siemag		
				Hot	x 1	Automotive sheet	Under Construction	-	5500	-	-	Mitsubishi-Hitachi		
			Kalinganagar, Odisha (Phase 2)	Steelmkg	n/a	n/a	Under Planning	-	-	-	2900	n/a	n/a	●In the second phase, Tata Steel will increase its capacity at Kalinganagar plant to 6 million tpy (Tex Report, 2014).
			Haveri, Karnataka (Phase 1)	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	3000	●Tata Steel has signed an expression of interest (EoI) with the state government of Karnataka to build a 6 million tpy integrated steelworks in the Haveri district (Platts 12-Jun-12).
			Haveri, Karnataka (Phase 1)	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	4000	
		Uttam Galva Ferrous (Uttam Galva Steels Group)	Andhra Pradesh	Steelmkg	n/a	n/a	Under Construction	-	-	-	2500	n/a	n/a	●In 2007, Brahmani Industries Ltd (BIL) initiated a 2.5 million tpy steelworks project at Kadapa (Platts 15-Apr-11).
			Karnataka	Steelmkg	n/a	n/a	Under Planning	-	-	-	6000	n/a	n/a	●In June 2010, the company announced that it would build a 6 million tpy integrated steelworks at Bellary (Platts 15-Apr-11).
		Uttam Galva Steels Ltd (UGSL)	Maharashtra, jv with ArcelorMittal	Steelmkg	n/a	n/a	Under Planning	-	-	-	1000	n/a	n/a	●UGSL and ArcelorMittal were planning since early 2010 to build a 1-1.5 million tpy integrated steelworks (Platts 17-Apr-13).
			Maharashtra, jv with POSCO	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●POSCO and UGSL plan to build a 3 million tpy integrated steelworks at Satarda in Maharashtra (Platts 17-Apr-13).
			Maharashtra, Shree Uttam Steel & Power	Steelmkg	n/a	Hot coil plant	Under Planning	-	-	-	1500	n/a	1800	●Shree Uttam Steel & Power Ltd has signed a MOU with the government of Maharashtra to set up a new steelworks (Platts 03-Mar-14).
			Odisha	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●Uttam Galva Steels Ltd (UGSL) has deferred plans to build an integrated steelworks in the eastern state of Odisha (Platts 01-Feb-13).
		Vedanta Resources	Odisha	Steelmkg	n/a	n/a	Under Planning	-	-	-	5000	n/a	n/a	●A couple of years ago, the company planned to build a 5 million tpy steel plant in Odisha (Platts 27-Jan-10).
		Videocon Group	West Bengal	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●Videocon Group plans to commence work on a power and steel project at Jamuria in West Bengal by the end of FY14 (Project Today 30-Sep-13).
		Visa Steel	Chhattisgarh	Steelmkg	n/a	n/a	Under Planning	-	-	-	2500	n/a	n/a	●The company planned to build a 2.5 million tpy integrated steelworks planned at Chhattisgarh in central India (Platts 29-Oct-10).
			Madhya Pradesh	Steelmkg	n/a	n/a	Under Planning	-	-	-	1250	n/a	n/a	●On 23 October 2010, Visa signed a MoU with the government of Madhya Pradesh for the project (Platts 29-Oct-10).
		Welspun Maxsteel	Maharashtra	Steelmkg	n/a	n/a	Under Planning	-	-	-	1500	n/a	n/a	●Apollo Global Management was reported to invest Welspun Maxsteel's new 1.5 million tpy slab plant (Platts 30-Jun-11).
				CC (slab)	n/a	n/a	Under Planning	-	-	-	1500	n/a	n/a	●The company has kept its proposed steel factory plan on hold due to the shortage of raw materials and energy (Business Standard 24-Apr-12).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	India	Xindia Steels	Karnataka	Steelmkg	n/a	n/a	Under Planning	-	-	-	2500	n/a	n/a	●Xindia Steels planned to construct an integrated works in Karnataka (Platts 01-Sep-11).
	Indonesia	Gunung Gahapi Sakti (GGS)	North Sumatra, jv with Nanjing Iron & Steel	BF	n/a	n/a	Under Construction	-	-	-	n/a	n/a	200	●Construction of the mill is being carried out by PT Gunung Gahapi Nisco Indonesia, a joint venture between Indonesian steel maker PT Gunung Gahapi Sakti and China's Nanjing Iron and Steel (Jakarta Post 26-Apr-14).
				LD	n/a	n/a	Under Construction	-	-	-	1000	n/a		●Gunung Gahapi is aiming to utilize raw materials abundantly available in Aceh and Padang, West Sumatra (Jakarta Post 26-Apr-14).
				STR	n/a	Bar Wire rod	Under Construction	-	-	-	1000	n/a		●The plant will have blast furnaces and converters (Platts 29-Jan-14).
		Gunung Raja Paksi	Cikarang Barat, West Java	BF	x 1	2500 m3	Under Construction	-	-	2000	-	Paul Wurth	n/a	●Paul Wurth will undertake basic engineering and supply components as well as a control system (Platts 25-Jan-13).
				EF	x 1	120 (T)	Under Construction	1200	-	-	-	SMS Siemag	n/a	●Currently, PT Gunung Raja Paksi is building a blast furnace in Cikarang Barat (Platts 11-Mar-14).
				CC (slab)	x 1	-	Under Construction	1200	-	-	-	SMS Siemag	n/a	●According to Plantfacts Capacity Database, a 120-metric ton electric arc furnace will be installed as a steelmaking facility (World Steel Dynamics).
		International Coal Ventures Ltd	East Kalimantan	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●A few years ago, ICVL planned to undertake pre-feasibility studies for exploring building a steel plant (Platts 27-Jun-11).
		Krakatau POSCO (PTKP)	Cilegon, West Java (Phase 1)	BF	x 1	3950 m3	Operating	3000	-	-	-	POSCO E&C	6000	●This project is part of Master Plan to accelerate economic development. It is the first large-scale blast furnace in Southeast Asia (OECD, 2013c).
				LD	x 1	300 (T)	Operating	3000	-	-	-	POSCO E&C		●The company had already secured USD 1.73 billion in loan facilities from a consortium of foreign lenders to get the project off the ground (Global Trade Review 27-Mar-14).
				CC (slab)	x 1	-	Operating	3000	-	-	-	POSCO E&C		●Krakatau POSCO proposed a top up for the loans with a guaranteed scheme from the Export Credit Agency (Export-Import Bank of Korea) for an additional USD 200 million (Jakarta Globe 25-Mar-14).
				Plate	x 1	-	Operating	1800	-	-	-	Mitsubishi-Hitachi		●In total, there will be USD 6bn invested in the project, both debt and equity, making it the biggest investment project in Indonesia's history (Global Trade Review 27-Mar-14).
		Krakatau Steel	Cilegon, West Java	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	600	●The blast furnace project will be financed partly by syndicated loans from domestic banks and Chinese banks backed by export credit agencies (Steel Times 07-Aug-13).
				BF	x 1	2300 m3	Under Construction	-	-	1400	-	MCC-CERI		n/a
			Jv with Severstal	Hot	x 1	Expansion	Under Construction	-	1100	-	-	n/a		
		Merukh Iron and Steel	Sumba Barat, East Nusa Tenggara	Steelmkg	n/a	Slab plant	Under Planning	-	-	-	n/a	n/a	n/a	●A few years ago, Platts reported that Severstal has held talks with Krakatau Steel about setting up a slab plant (Platts 17-Jul-12).
				Steelmkg	n/a	n/a	Under Planning	-	-	-	3500	n/a	27500	●A few years ago, Merukh Iron & Steel planned to build two integrated steelworks costing 20 billion euros (USD 27.5 billion) in East and West Sumba in East Nusa Tenggara, in cooperation with Paul Wurth and SMS Siemag (The Jakarta Globe 28-Feb-11).
			Sumba Timur, East Nusa Tenggara	Steelmkg	n/a	n/a	Under Planning	-	-	-	3500	n/a		

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	Indonesia	Steel Authority of India Ltd (SAIL)	Central Kalimantan	Steelmkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	●SAIL and the Indonesian government have signed a MoU to build a 3 million tpy steel plant in Kalimantan province (MB 26-Jan-11).
		Wuhan Iron & Steel (Wugang)	East Java	Steelmkg	n/a	n/a	Under Planning	-	-	-	5000	n/a	5000	●Wugang launched a USD 5 billion plant. Wugang had the support of the Chinese government for the investment (Platts 24-Mar-14).
	Japan	Nippon Steel & Sumitomo Metal Corporation	Wakayama	BF	x 1	3700 m3	Operation Suspended	-	-	-	-	n/a	n/a	●Postponement of operation of the new No. 2 blast furnace (NSSMC HP 13-Mar-13).
		Topy Industries	Toyohashi	EF	x 1	200 (T)	Under Construction	-	-	1000	-	Steel Plantech	n/a	●Topy Industries will install a new EAF to replace its old furnace (Steel Plantech HP 21-Sep-12).
	Korea	Hyundai Steel	Dangjin C	BF	x 1	5250 m3	Operating	4000	-	-	-	Paul Wurth	n/a	●Hyundai Steel finally completed its Won 9.9 trillion (USD 9.12 billion) investment in a 12 million tpy integrated mill at its Dangjin by blowing-in its No. 3 blast furnace on 12 September 2013 (Platts 13-Sep-13). ●The additional furnace will eventually lift the integrated mill's total crude steel capacity to 24 million tpy (Platts 13-Sep-13). ●According to KOSA, Hyundai Steel raised its steelmaking capacity in 2013 by adding two converters with a capacity of 4.75 million tpy (KOSA 2013). ●The company is adding 500,000 tpy to installed capacity of its No. 1 plate mill, taking total plate capacity to 3.5 million tpy (Platts 07-Apr-14). ●The company is considering expanding the capacity of its cold rolling mill by 300,000 tpy and building a new hot-dip galvanizing with a capacity of 500,000 tpy in response to the demand increase for autosheet from Hyundai & Kia Automotive Group (Platts 11-Apr-14, 13-May-14).
				LD	x 2	300 (T)	Operating	4750	-	-	-	Steel Plantech	n/a	
				CC (slab)	x 2	-	Operating	5200	-	-	-	Siemens Metals	n/a	
				Plate	x 1	-	Operating	1500	-	-	-	SMS Siemag	n/a	
				Plate	x 1	Expansion	Under Construction	-	500	-	-	n/a	n/a	
				Cold	x 1	Expansion	Under Planning	-	-	-	300	n/a	n/a	
				HGL	x 1	Automotive sheet	Under Planning	-	-	-	500	n/a	n/a	
			Dangjin	Steelmkg	n/a	Special steel	Under Construction	-	-	-	1000	n/a	783	●On 8 April 2014, Hyundai Steel, officially began building its 1 million tpy special steel plant in Dangjin, south of Seoul (Platts 09-Apr-14). ●The company aims to produce special steel long products such as bar and wire rod, for engine and transmission components to supply to its parent company, Hyundai Kia Automotive Group (Platts 08-Jan-14). ●The company intends to invest Won 844.2 billion (USD 783 million) in the plant (Platts 11-Feb-14).
				CC (bloom)	x 1	-	Under Construction	-	-	-	1100	Siemens		
				STR	n/a	Round bar	Under Construction	-	-	-	600	Siemens		
				WR	n/a	-	Under Construction	-	-	-	400	Siemens		
		POSCO	Gwangyang	BF	x 1	3800 →6000 m3	Operating	→5470	-	-	-	POSCO E&C	n/a	●POSCO completed a relining project in 2013, to enlarge its No. 1 blast furnace (the biggest blast furnace in the world) (Platts 10-Jun-13).
				Hot	x 1	-	Under Construction	-	3300	-	-	n/a	1480	●The HSM is expected to cost KRW 1.6 trillion (USD 1.48 billion) and construction began in September 2011 (Platts 18-Dec-12).
			Pohang	DR	x 1	Finex	Operating	-	2000	-	-	POSCO E&C	n/a	●The No. 3 Finex plant started hot trials in January 2014 and should be formally commissioned in the first half of 2014 (Platts 29-Apr-14).
				WR	x 1	-	Operating	700	-	-	-	n/a	n/a	●POSCO officially inaugurated a new wire rod mill with a capacity of 700,000 tpy at its Pohang works (Platts 29-May-13).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	Malaysia	Bahru Stainless	Pasir Gudang, Johor	EF	n/a	n/a	Under Planning	-	-	-	1000	n/a	n/a	●This project will be an integrated stainless steel mill with a capacity of 1 million tpy and a cold rolling capacity of 600,000 tpy (Bahru Stainless HP). ●Bahru Stainless is 67% owned by Acerinox, 30% by Nisshin Steel and 3% by Metal One (Platts 19-Jan-11).
				Cold	n/a	Expansion	Under Planning	-	-	-	420	n/a	n/a	
		Eastern Steel	Kemaman, Terengganu (Phase 1A)	BF	x 1	600 m3	Under Construction	-	700	-	-	n/a	551	●Eastern Steel is a joint venture company between Hiap Teck Venture Berhad of Malaysia and Shougang Group of China (SEAI HP 28-Oct-13). ●China's Shougang Group holds a 45% share and will provide the mini blast furnaces as well as technical assistance (Platts 07-Dec-11). ●The RM1.8 billion (USD 551m) integrated steelworks is expected to start commercial production in September 2014 (Platts 23-Apr-14).
				LD	n/a	n/a	Under Construction	-	700	-	-	Shougang		
				CC (slab)	x 1	-	Under Construction	-	700	-	-	Shougang		
		Kemaman, Terengganu (Phase 1B)	n/a	Steel mkg	n/a	n/a	Under Planning	-	-	-	800	n/a	n/a	●The company plans to expand slab capacity in Phase 1B to 1.5 million tpy with a second blast furnace (Platts 23-Apr-14). ●Several years ago, Engineering company and tube and pipe producer Melewar Industrial Group planned to build a 3 million tpy steelworks in Malaysia that will be the country's second hot rolled coil producer (MB 29-Jun-12). ●In the second phase, the company will raise hot-rolling capacity to 3 million tpy (MB 29-Jun-12).
				DR	n/a	n/a	Under Planning	-	-	-	2400	n/a	n/a	
				EF	n/a	n/a	Under Planning	-	-	-	1500	n/a	n/a	
		Melewar Industrial Group	n/a	Hot	n/a	-	Under Planning	-	-	-	1500	n/a	n/a	
	Mongolia	DRI plant project	Sainshand	DR	n/a	DRI HBI	Under Planning	-	-	-	4500	n/a	n/a	●Mongolia plans to build an iron ore processing and DRI plants, a coke plant and a steelworks (Platts 28-Feb-14). ●In the first phase, Mongolia will have a 500,000 tpy plant, raising to 3.5 million tpy in the second stage (Platts 28-Feb-14). ●The project, which will be privately funded, is export-orientated (Platts 28-Feb-14).
		Steelworks project	Sainshand (Phase 1)	Steel mkg	n/a	n/a	Under Planning	-	-	-	500	n/a	n/a	
			Sainshand (Phase 2)	Steel mkg	n/a	n/a	Under Planning	-	-	-	3000	n/a	n/a	
	Pakistan	Pakistan Steel Mills Corp	Bin Qasim, Karachi	Steel mkg	n/a	n/a	Under Planning	-	-	-	1900	n/a	n/a	●Pakistan Steel Mills (PSM) planned to increase its capacity to 5 million tpy in two phases of expansion (Platts 11-Apr-11).
		Tuwairqi Steel Mills	Karachi, JV with POSCO	DR	x 1	Midrex	Operating	1280	-	-	-	n/a	n/a	●POSCO has signed a joint venture agreement with Saudi Arabia's Al Tuwairqi Holding to acquire a 15% equity stake in the Pakistani project, which is costing some USD 300 million including working capital (Platts 12-Sep-11). ●TSML plans to install an electric arc furnace-based steelworks by 2015 in the second expansion phase (Platts 14-Jan-13).
				EF	x 1	120 (T)	Under Planning	-	-	1500	-	n/a	n/a	
				CC (billet)	x 1	-	Under Planning	-	-	1500	-	n/a	n/a	
		Santex Pakistan	Bin Qasim, Karachi	EF	n/a	n/a	Under Planning	-	-	-	1200	n/a	n/a	●Two agreements were signed in 2012: co-operation agreement between Santex Pakistan and Vitkovice Heavy Machinery for a billet plant; and an MoU between Santex Pakistan and Czech Export Bank on the debt financing up to 85% of the cost (Business Recorder 11-Sep-12).
				CC (billet)	n/a	n/a	Under Planning	-	-	-	1200	n/a	n/a	
	Thailand	Sahaviriya Steel Industries Public	Bang Saphan, Prachuabkirkhan	Steel mkg	n/a	Billet Slab	Under Planning	-	-	-	5000	n/a	n/a	●Sahaviriya Steel planned for a new integrated steel plant. However, the project was delayed due to political instability (Platts 05-May-10).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	Thailand	Government integrated steel mill project	Songkhla or Chanthaburi	Steelmkg	n/a	n/a	Under Planning	-	-	-	5000	n/a	n/a	●Several years ago, Thai government planned to build an integrated steel mill (Platts 02-Dec-10).
	Viet Nam	Formosa Plastics Group	Vung Ang, Ha Tinh (Phase 1)	BF	x 3	4350 m3	Under Construction	-	-	3450	6900	n/a	10000	●This project is a joint venture owned 95% by Formosa Plastics Group and 5% by China Steel Corporation (CSC) (Tex Report, 2014).
				LD	x 3	300 (T)	Under Construction	-	-	8400	-	Steel Plantech		●The invest amount for the phase 1 is about USD 10 billion and 10,000 jobs are created (Tex Report, 2014).
				CC (billet)	x 1	-	Under Construction	-	-	1200	-	Siemens-VAI		●Formosa Plastics Group (FPG) started its integrated steel mill project in Ha Tinh province, Viet Nam on 2 December 2012 (Tex report, 2014).
				CC (bloom)	x 1	-	Under Construction	-	-	1500	-	Siemens-VAI		●Its No. 1 blast furnace is expected to be fired around end-May 2015. First phase capacity is expected to reach 10.5 million tpy by end-May 2017 (Platts 16-May-14).
				CC (slab)	x 2	-	Under Construction	-	-	5400	-	Siemens-VAI		●In the project's second phase, the company plans to build another three blast furnaces with a total capacity of 12 million tpy, which will take the entire project's melting capacity to 22.5 million tpy (Platts 04-Oct-13).
				STR	x 1	-	Under Construction	-	-	600	-	n/a		●By 2020, the company will build a power station and port related infrastructure (Tex report, 2014).
				WR	x 1	-	Under Construction	-	-	n.a	-	n/a		●Several banks signed in November 2013 an agreement to provide a TWD 83-billion syndicated loan to the Formosa Plastics Group, representing the largest borrowing program by the conglomerate in the past nine years since the group's completion of its Sixth Naphtha Cracking Project over a decade ago (The China Post 15-Nov-13).
				Hot	x 1	-	Under Construction	-	-	5300	-	Mitsubishi-Hitachi		
			Vung Ang, Ha Tinh (Phase 2)	BF	x 3	-	Under Planning	-	-	-	12000	n/a	n/a	
		E United Group	Dung Quat, Quang Ngai	BF	x 1	-	Under Planning	-	-	-	3500	n/a	n/a	●In March 2012, JFE Steel has signed a memorandum of understanding with the E United Group to study the feasibility of building and operating an integrated steelworks in Viet Nam (JFE Steel HP 27-Mar-12).
				Steelmkg	n/a	n/a	Under Planning	-	-	-	3500	n/a	n/a	●The project's first phase would include a 3.5 million tpy blast furnace and steel shop and 2.5 million tpy hot strip mill (Platts 10-Oct-13).
				Hot	x 1	-	Under Planning	-	-	-	2500	n/a	n/a	
		Nghi Son Iron & Steel	Thanh Hoa	EF	x 1	100 (T)	Under Construction	-	1000	-	-	Tenova	n/a	●Nghi Son Iron & Steel Corporation (NSI) has ordered an electric arc furnace capable of producing 1 million tpy from Italy-based plant maker Tenova (Platts 22-Jun-11).
				CC (billet)	x 1	-	Under Construction	-	1000	-	-	n/a	n/a	
	POSCO Specialty Steel	Phu My, Ba Ria-Vung Tau		EF	x 1	120 (T)	Under Construction	-	1000	-	-	Danieli	594	●Korea's POSCO Specialty Steel (POSCO SS) began building its overseas plant, breaking ground on a new 1 million tpy carbon long steel product plant in Viet Nam (Platts 28-Jun-12).
				CC (bloom)	x 1	-	Under Construction	-	1000	-	-	n/a		●The plant will host a 120-ton electric arc furnace and produce 700,000 tpy of sections and 300,000 tpy of rebar (Platts 09-Mar-12).
				STR	x 2	Section Bar	Under Construction	-	1000	-	-	n/a		●The project will cost about USD 594m (Platts 28-Jun-12).

Region	Economy	Company/Project	Location	Equipment			Status	2013	2014	2015	2016 or later	Supplier	Capex USD m	Comments
Asia	Viet Nam	Tata Steel	Ha Tinh, jv with Vietnam Steel Corp	Steelmkg	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	●Tata Steel had earlier planned to launch a 4.5 million tpy integrated plant in the province of Ha Tinh, through a joint venture with Vietnam Steel Corp and Vietnam Cement Industries Corp (Platts 31-Jul-12). ●In 2013, it was reported that the company abandoned the project to build a greenfield integrated steelworks in Viet Nam (Platts 24-May-13).
				Hot	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	
				Cold	n/a	n/a	Operation Suspended	-	-	-	-	n/a	n/a	
		Vietnam Shipbuilding Industry Corp (Vinashin)	Khanh Hoa, jv with POSCO	Steelmkg	n/a	n/a	Under Planning	-	-	-	4000	n/a	n/a	●POSCO's proposed integrated steel project stalled when it was asked to select another location at the end of 2008 (Platts 31-Mar-11).
			Ninh Thuan, jv with Lion Group	Steelmkg	n/a	Flat products	Operation Suspended	-	-	-	-	n/a	n/a	●In 2011, the government revoked the licence for the joint venture flat rolled integrated steel mill (Platts 31-Mar-11).
		Vietnam-China Mineral Resources	Lao Cai	EF	x 1	n/a	Under Planning	-	-	1000	-	n/a	307	●The company plans to build its new electric arc furnace that is expected to be commissioned in 2015 (MBR Capex Q3 2013).
Oceania	Australia	Boulder Steel	Queensland (Phase 1)	BF	n/a	n/a	Under Planning	-	-	-	n.a	n/a	n/a	●In July 2012, Boulder signed a framework agreement with MCC, covering participation in the project (Platts 07-Nov-12). ●The project aims to build an integrated steelworks producing slab for export to Asia (Platts 25-Jul-13). ●In July 2013, Boulder entered voluntary administration because of financial problems (Platts 06-Nov-13). ●The project looks like being revived after creditors voted in favour of a deed of company arrangement (Platts 06-Feb-14).
				LD	n/a	n/a	Under Planning	-	-	-	2500	n/a	n/a	
				CC (slab)	n/a	n/a	Under Planning	-	-	-	2500	n/a	n/a	
			Queensland (Phase 2)	Steelmkg	n/a	n/a	Under Planning	-	-	-	2500	n/a	n/a	

Source: OECD Secretariat.