

Middle East

Unit: thousand tonnes per year

Country	Nominal capacity							Crude steel production	Apparent consumption
	exist	Increase to 2005			Capacity in 2005				
	2002	Firm	Possible	Unlikely	Mean	Low	High	2002	2002
Egypt	5757	0	2100	1610	6807	5757	7857	4316	4100
Iran	1026	1200	1300	1600	12110	11460	12760	7321	12299
Libya	2678	0	0	7000	2678	2678	2678	886	332
Saudi Arabia	3800	300	1850	0	5025	4100	5950	3570	5648
Others	2540	0	1000	2700	3040	2540	3540	1601	9771
Total	2503	1500	6250	12910	29660	26535	32785	17694	32150

Note: Apparent consumption is in terms of crude steel.

Source: Capacity: OECD secretariat. Production and apparent consumption: IISI.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	Start-up date	Source
Country: ABU DHABI									
<u>General Industry Corp.</u>						S			
		(300)	STR						
<u>Gulf Investment Corporation(GIC)</u>						S			
				(Unlikely)					MB09-Jul-02
					Cold (stn)				
Kuwait-based Gulf Investment Corporation(GIC) reportedly plans to build a new stainless cold rolling mill in Abu Dhabi at a cost of around USD 150 million.									
Country: AFGHANISTAN									
<u>Afghan-China Iron Foundry</u>									
	Pol-e Charkhi industrial park (Kabul)								
		(35)	STR						
Country: BAHREIN									
<u>Arab Iron and Steel Company</u>									
	Pellet Plant								
				(Unlikely)					ME
				(2000)	DR				
A plan for a 2 million tpy DRI plant is currently under consideration.									
Country: CYPRUS									

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: CYPRUS								
<u>BMS Metal Pipes Industries</u>								
Anatolikon, Paphos								
		(15)	ERW					
Country: EGYPT								
<u>Abou Youssef Eng Office</u>								
	Cairo					P		
		(5)	ERW					
<u>Al Ezz Steel Rebars Co</u>								
	Ramadan City					P		
		(300)	WR					
	Sadat City	600		(250)	(Unlikely)			MB 10-Mar-03
		(600)	EF	(250)	EF			
		(600)	LF	(100)	STR			
		(800)	CC (billet)					
		(420)	STR					
		(480)	STR					

Al Ezz Rebars Co. plans to expand its steelmaking capacity with the installation of a 250 000 tpy electric arc furnace and a 100 000 tpy second rolling mill at its works in Sadat City in 2004.

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
Plant/project						Start-up date	Source
Country: EGYPT							
<u>Alexandria National Iron & Steel Co(ANSDK)</u>						S/P	
El-Dikheila (Alexandria)	1840			(Firm)			
	(2800)	DR (MIDREX) x 3					
	(1840)	EF x 5					
		LF x 3					
	(1550)	CC (billet) x 3					
	(1000)	CC (tsc)					
	(800)	WR					
	(650)	STR					
	(300)	STR					
	(1000)	Hot					
<u>Alexandria Steel Melting Co(The Hatem El-Hawary Group)</u>						P	
	300						
	(300)	EF					
<u>Alexandria Steel Works(The Hatem El-Hawary Group)</u>						P	
	(200)	WR					
<u>Arab Steel Factory</u>							
Ramadan City	400						
	(400)	EF					
	(400)	CC (billet)					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: EGYPT								
<u>Arab Steel Factory (ASF)</u>								
	Port Said				(Unlikely)			
				(600)	DR			
<u>Arcosteel</u>								
	Sadat City	140	(stainless steel)					
		(35)						
		(140)	LD					
		(140)	LF					
		(140)	CC					
		(140)	STR					
<u>Aswan Iron & Steel(Ademco Gr)</u>								
	south of Aswan			(600)	(Unlikely)			
				(600)	Steelmkg			
				(600)	STR			
<u>Delta Steel Mill SAE</u>								
	Mostorod, Kaliubieh	160					S	
		(160)	EF x 3					
		(100)	LF					
		(120)	CC (billet)					
		(154)	STR x 2					

Unit: thousand tonnes per year

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: EGYPT								
<u>Easroc</u>								
	Cairo				(Unlikely)			
				(500)	STR WR			
<u>Egyptian American Steel Rolling Co</u>								
	Sadat City			1100	(Possible)		2004	ME 15-May-03
		(500)	STR	(1100)	EF			
		(300)	STR	(1100)	LF			
				(1100)	CC (billet)			
<u>Egyptian Iron & Steel (Hadisolb)</u>								
	Helwan	1272			(Unlikely)	S	2005	MB 10-Mar-04
		(1400)	BF x 4	(800)	BF x 2			
		(1200)	LD x 3					
		(72)	EF x 2					
		(600)	CC (billet) x 3					
		(600)	CC (slab) x 3					
		(300)	CC (slab)					
		(240)	BLM					
		(170)	STR					
		(200)	STR					
		(25)	STR					
		(25)	STR					
		(95)	Plate					
		(650)	Hot					
		(260)	Cold x 2					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: EGYPT								

Unit: thousand tonnes per year

Egyptian Iron & Steel reportedly intends to spend USD 50 million to update the existing four blast furnaces with installation of two larger blast furnaces at Hadisob works by 2005.

El-Gerhy/ Saudi Basic Industries Copr JV

near Suez

(600) (Unlikely)

(600) EF

LF

(600) CC (billet)

(250) STR

El-Nasr Steel Pipes & Fittings Co

Cairo

S

(10) ERW x 3

Ezz Heavy Industries

1000 (Possible)

P

MB 30-Apr-02

MBM 02-Nov-02

(1000) EF

(1000) CC (tsc)

(1200) Hot

The Ezz Group is reportedly planning to build an electric arc furnace, a continuous thin slab caster and a hot strip mill, all of which have 1 million tpy capacity. The turnkey contractor is Danieli which also has a 20% stake in the project. The company will reportedly export almost 70% of its output.

General Lithograph Egypt

Cairo

(100) Tin plate

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	Start-up date	Source
Plant/project								
Country: EGYPT								
<u>International Steel Rolling Mills(ISRM)</u>					P			
Sadat City								
	(600)	STR						
<u>Misr Iron & Steel (Misco)</u>								
October City, Cairo								
	(75)	STR						
<u>National Metal Industries Co.</u>					S			
Abou Zaabal	280							
	(280)	EF OH STR x 3						
<u>Pan Arab Special Steels Mill Project</u>								
			(110)	(Unlikely)				ME
<u>Sadat City Steel Co(The Hatem El-Hawary Group)</u>					P			
	(200)	STR x 2						

Middle Eastern parties involved in plans to build the region's first specialty steel plant with steelmaking capacity of 110 000 tpy have reportedly selected Egypt for its location. AIDO (The Arab Industrial Development Organisation) is to invest 51% in the project, estimated at USD 210 million, the remaining stake being held by the Arab League. It is not still clear when construction will start.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **EGYPT**

Suez Iron Co.

Suez

(Unlikely)

MB 19-Nov-02

EF (shaft furnace) (1150) DR (Finmet)
 LF
 CC (billet)

Suez Iron Co reportedly signed a letter of intent for the turnkey construction of a Finmet direct-reduction plant with Austria's VAI. The plant is designed with an annual capacity of 1.15 million tonnes of HBI. The fingershaft electric arc furnace, ladle furnace and billet caster at this works were supplied by VAI.

Suez Steel Co

Adabia, Suez

600

S/P

(600) EF
 (600) LF
 (600) CC (billet)
 (1150) DR (Finmet)

The Al-attal group

Suez

P

(300) STR

The Egyptian Copper Works

Alexandria

130

S

(130) EF
 (130) CC (billet)
 (70) STR

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: EGYPT								
<u>The Lakah Group</u>								
	East Port Said				(Unlikely)			
				(650)	DR (HYL)			
	Ramadan City							
		(400)	BTM					
Country: IRAN								
<u>ASCO</u>								
	Ahwaz							
		(330)	DR					
		(1030)	DR (HYL) x 3					
<u>Avangan Co</u>								
	Arak				(Unlikely)			MB
				(100)	STR			
				(55)	HGL			
Avangan Co., Iranian power transmission and communication towers reportedly intends to construct a 100 000 tpy capacity angles mill and 55 000 tpy capacity galvanizing line in Arak, located in the central Iran								
<u>Hormuzgan steel plant project</u>								
	Qeshm Island				(Unlikely)		2005	MB 17-Oct-02
					DR			
					CC (slab)			

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: IRAN								

plans to expand capacity up to 3.6 million tpy in 2004 with the installation of a new electric arc furnace, which is under construction.

	Insig, Ahwaz	500						
			EF x 4 CC x 2 WR STR					
	Khorasan Steel Complex, Neyshabur	1800		(Possible)				ME 17-Dec-03
		(1800)	EF x 2 LF CC (billet)		DR			
		(500)	WR STR					

Khorasan Steel Complex is planning to establish a joint firm with IRTIC and IRASCO companies in order to build a steel mill with a direct iron ore reduction unit in Khorasan province.

	Khozestan Steel, Ahwaz	2000		(1600)	(Unlikely)			MB 17-Oct-02 ME 20-Nov-03
		(330)	DR	(1600)	EF			
		(2000)	DR (MIDREX) x 5		CC x 2			
		(1000)	DR (HYL)		STR			
		(2000)	EF x 8	(1050)	Plate			
		(500)	CC (billet)					
		(1000)	CC (slab)					
		(550)	STR					

According to the news source, the company plans to revamp the existing eight electric arc furnaces to raise seelmaking capacity up to 3.6 million tpy by 2004. NISCO also intends to install a new section mill and a wide plate mill, and these downstream facilities are scheduled to come on stream in 2004.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: IRAN								
Mobarakeh Steel Co.	Esfahan	2900		1300	(Possible)			FT02-May-02 MB 17-Oct-02 ME 10-Dec-03
		(4000)	DR (MIDREX) x 6	(1300)	EF			
		(2900)	EF x 8		LF			
		(2700)	CC (slab) x 4	(900)	Hot			
		(3100)	Hot	(625)	Cold			
		(875)	Cold	(300)	Ptg			
		(200)	HGL					
		(100)	Tin plate					
Mobarakeh Steel Co. intends to revamp the existing electric arc furnaces at the plant, aiming at raising the steelmaking capacity up to 4.2 million tpy. The company also plans to raise hot- and cold-rolling capacity to 4 million tpy and 1.5 million tpy, respectively. The 300 000 tpy galvanizing and colour-coating line is being installed by CMI of Belgium.								
	Saba plant			(800)	CC (slab)			MB 17-Oct-02
The Italian plantmaker Danieli reportedly unveiled a plan to install a 800 000 tpy slab caster at the Saba plant of National Iranian Steel Co.								
<u>National Iranian Steel Co (NISCO)</u>								S
Kaavian Steel Co.								
		(800)	Plate					
			Hot					
<u>Navard Va Luleh Ahwaz - Arpco (Ahwaz Rolling & Pipe Mills Co)</u>								S
Ahwaz								
		(600)	Hot					
		(80)	ERW x 3					
		(25)	HGL					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: IRAN								
Others								
		200						
Sadid Industrial Group								
	Khuzestan province							MB 26-Jul-02
		(370)	ERW x 3	(350)	ERW			
Iranian steel pipe manufacturing company, Sadid Industrial Group reportedly plans to install a new 350 000 tpy pipe mill in Khuzestan province.								
Saveh Rolling & Profile Mills Co.								
		(805)	ERW					
Sepahan Industrial Group Co								
	Isfahan	200						
		(200)	Steelmkg ERW					
Country: IRAQ								

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: IRAQ								
<u>State Company for Iron & Steel</u>						S		
	Kohr al Zubair	400						
		(543)	DR (MIDREX)					
		(950)	DR (MIDREX)					
			EF x 4					
		(440)	CC (billet) x 2					
			STR					
			STR					
Country: ISRAEL								
<u>Feingold Steel Industries Ltd</u>						P		
	Ashdod							
		(5)	STR					
<u>Hod Metals</u>						P		
	Haifa Bay							
		(210)	STR					
<u>Middle East Tube Co Ltd</u>						S/P		
	Zerifin							
			ERW					
<u>Packer Cold Finished Bar Ltd</u>						P		

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: ISRAEL								
<i>Packer Plada Mifalei Darom Ltd, Packer Profiles Division</i>						P		
			ERW					
<i>United Steel Mills Ltd</i>						P		
	Kiryat Haplada, Kiryat Gat, Tel-Mond	220						
		(220)	EF LF CC (billet) STR WR					
<i>Yehuda Steel</i>						P		
	Ashdod (main works), Gedera (2nd rolling mill)	280						
		(280)	EF x 2					
		(180)	LF					
		(180)	CC (billet)					
		(120)	STR x 2					
		(400)	STR x 2					
Country: JORDAN								

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: JORDAN								

Arabian Steel Pipes Manufacturing Co.Ltd.

Abdulla

(30) ERW x 2

General Specialised Steel Manufacturing Co

Sahab

(Unlikely)

P

MB 11-Feb-02

(100) STR

(250) STR

The company intends to install a 250 000 tpy rolling mill by purchasing second-hand facilities from a variety of suppliers in Canada, France and the United Kingdom.

Jordan Iron & Steel Co.

Zarga-Awaiian

75

(75) EF x 2

CC

(120) STR x 2

Jordan Steel

(300) STR

National Steel Industry Co.Ltd

ISWW

(120) STR

Country: **KUWAIT**

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	Start-up date	Source
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Country: **KUWAIT**

Kuwait Metal Collecting & Shredding Co

Safat

1000 (Possible)

2004

MB 16-Sep-02

AMM 17-Sep-02

(1000) Steelmkg

Kuwait Metal Collecting & Shredding Co., a steel scrap company in Kuwait is likely to build a steelmaking plant in Safat. The company reportedly plans to increase its capacity to 1 million tpy in 2004.

Kuwait Metal Pipe Industries KSC

Shuwaikh Industrial Area

(65) ERW

Sulaibiah

(120) ERW

(16) ERW

United Steel Industrial Co(USIC)

Shuaiba

(Unlikely)

P

MB 16-Sep-02

(300) STR

(200) STR

The company reportedly plans to expand its capacity to 500 000 tpy from current 300 000 tpy in order to meet demand from the local construction industry at a later stage. USIC is Kuwait's first steel producer joint venture, owned 51% by Kuwaiti private investors and 49% by Ascotech, a Germany based unit of National Iron and Steel Co. (Nisco). Slabs are expected to be supplied by Nisco.

Country: **LEBANON**

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source

Country: **LEBANON**

Consolidated Steel Lebanon SAL (CSL)

Amchit

(300) STR

Lebanon Steel Mill co.

Tripoli

100

EF
STR

Marc Abizaid

Biblos

STR

Country: **LIBYA**

State Steel Corporation

Misurata

1324

(Unlikely)

S

ME

(1750) DR (MIDREX) x 3 (500) LF
 (1324) EF x 6
 (1241) CC x 5
 (120) STR
 (600) WR
 (580) Hot
 (158) Cold
 (80) HGL
 (40) Ptg

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: LIBYA								

Libyan Iron & Steel Co. (LISCO) is reportedly considering to install a ladle furnace in order to raise meltshop's capacity.

Tripoli 30

EF x 2
BTM

The Libyan Iron and Steel Co.(LISCO)

Misurata 1324

(700) (Unlikely)

HP

MB 11-Apr-02

(1750) DR (MIDREX) x 3 (700) EF
 (674) EF x 3 (600) CC (billet)
 (650) EF x 3 (600) CC (slab)
 (630) CC (billet) x 2
 (611) CC (slab) x 2
 (120) STR
 (800) WR
 (580) Hot
 (158) Cold
 (80) HGL
 (40) Ptg

According to the Arab Iron & Steel Union's report, The Libyan Iron & Steel Co. (LISCO) plans to increase its steel production capacity from 1.3 million tpy to 2 million tpy details of this project schedule are unknown.

Country: **OMAN**

Al Jazeera Tube Mills Co

Sohar Industrial Estate

(100) ERW

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: OMAN								
<u>DRI plant project</u>								
				(1000)	(Unlikely)			
				(1000)	DR			
				(1000)	EF			
				(1000)	STR			
<u>Sharq Sohar Steel Rolling Mills</u>								
Sohar Industrial Estate								
		(240)	STR					
Country: QATAR								
<u>A Qatar/Kuwait slab JV</u>								
				(1000)	(Unlikely)			
				(1000)	EF			
				(1000)	CC (slab)			
<u>QASCO(Qatar Steel Co Ltd.)</u>								
	Mesaieed	915			(Unlikely)	S		MB08-Jul-02
		(400)	DR (MIDREX)	(2000)	HBI (HYL)			
		(915)	EF x 3	(500)	CC (billet)			
		(1052)	CC (billet) x 2	(150)	STR			
		(330)	STR		Hot SMLS			
				(800)	DR (MIDREX)			

QASCO reportedly plans to establish a 800 000 tpy Midrex-based direct reduction iron (DRI) plant equipped with a 500 000 tpy continuous billet casting facility and a 150 000

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country:	QATAR							

tpy rolling mill.

Country: **SAUDI ARABIA**

Al Azizia Steel

Bahrah, Jeddah

300 (Firm)

2004

HP
ME

(500) BTM
(100) STR

(300) EF
(300) LF

A plan to install a 300 000 tpy electric arc furnace at the Bahrah plant of Al Azizia Steel is reportedly under construction.

Al Jazera Factories For Steel Products Ltd

Jeddah Industrial Area

(260) STR x 7

Al Musalrey Metallic Industries Co

Riyadh

EGL
Ptg
STR
(160) ERW

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: SAUDI ARABIA

Al-Ittefaq(Rajhi Steel)

Dammam, Eastern Province

850 (Possible)

2005

ISWW

MB 27-Nov-02

HP

MB 29-Dec-03

MB 26-Feb-04

MP 01-Mar-04

MB 13-Mar-03

(700) WR

(450) STR

(200) Ptg

(750) Rolling

(850) EF

(850) CC (billet)

(850) LF

(300) STR

Al-Ittefaq, wholly owned by Hilal Al-Turwairqi, is reportedly working on proposals to build a new 850 000 tpy electric arc furnace in the second half of 2005. The company currently operates 750 000 tpy rolling mills producing deformed bars, angles, square and round bars and a wire rod mill. The new meltshop and continuous billet casting machine are expected to be built close to its rolling mills. The installation of a new 300 000 tpy rebar mill is under construction at its works.

Al-Shamrany Industrial Group

Al-Jubail

P

(250) Cold

Attieh

P

HGL

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: SAUDI ARABIA								
<u>BHP Universal Metal Coating Co (Unicoil)</u>						P		
	Jubail							
		(120)	Ptg					
<u>Hadeed(Saudi Iron & Steel Co)</u>						S/P		
	Al-Jubail, Al-Sinaiyah	2700		(Unlikely)			ME 29-Nov-03	
							ME 12-Aug-03	
		(2400)	DR (MIDREX) x 3	(500)	STR			
		(2700)	EF x 3	(150)	Ptg			
			LF x 2					
		(2700)	CC (billet) x 3					
		(600)	STR					
		(1100)	STR					
		(700)	WR					
		(800)	Hot					
		(500)	Cold					
		(200)	EGL					

Hadeed is planning to expand its bar mill capacity with the installation of a new 500 000 tpy rolling mill at the Jubail Works. The company also intends to install a new pre-painted coil coating line with the investment of USD 100 million.

Steel Rolling Co. (Sulb)
(Jeddah)

(140) STR

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: SAUDI ARABIA

Hadeed II(Saudi Iron & Steel Co)

Flat product plant	1100				(Possible)			HP ME
	(1120)	DR (HYL III)			DR			
	(1100)	EF			EF			
	(850)	LF			LF			
	(850)	CC (slab)		(1000)	Hot			
	(1000)	Hot						
	(496)	Cold						
	(200)	HGL						

Hadeed is a wholly owned subsidiary of Sabc (Saudi Basic industry Co), itself owned 70% by the Saudi Government and controlling some 16 petro-chemical complexes. The company plans to establish a new direct-reduction iron based plant to supply raw material for the new flat product mini mill. The company also has a plan to double the existing hot rolling capacity to 2 million tpy.

National Metal Manufacturing Co(Maadaniyah)

Al-Jubail					(Unlikely) (stainless)			S
	(450)	EF						
	(450)	STR						

National Pipe Co.

Damman								P
	(360)	ERW x 2						

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: SAUDI ARABIA								
<u>Saudi Steel Pipe</u>								
	Dammam					P		
		(80)	ERW x 3					
		(80)	ERW					
		(58)	Ptg					
<u>Seamless Tube Project</u>								
				(Unlikely)				
				(110)	SMLS			
<u>The Saudi Arabian United Gulf Section Mill Co</u>								
	Al-Jubail			1000	(Possible)	S/P	2004	ISWW ME
		(450)	STR	(500)	EF			
				(450)	STR			
United Gulf Section Mills (UGS) reportedly has an expansion project to backwardly integrate with the installation of a 500 000 tpy meltshop, comprised of a new 450 000 tpy heavy section mill at its Jubail Works by 2004.								
	Damman					(Unlikely)		ME
				(350)	STR			
The company plans to build a 350 000 tpy capacity medium section mill in Damman.								

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: SAUDI ARABIA								
<u>The Sidic Metal Coating Co (SMC)</u>						P		
	Bahra							
		(72)	HGL x 2					
		(85)	Ptg Tin plate					
<u>Universal Metal Coating Co(Unicoil)</u>						P	2005	
	Al-Jubail			(Possible)				MB 28-Oct-02 ME 21-Nov-03
		(120)	Ptg	(250)	Cold (250) HGL			

Universal metal Coating Co. (Unicoil), established in 1996, started out as a venture between BHP and two Saudi Arabian companies. The company reportedly plans to install new cold rolling and galvanizing facilities at it's Al-Jubail plant. The two facilities are scheduled to start operations in 2005.

Country: SYRIA								
<u>GECOSTEEL(Société Générale des Produits Sidérurgiques)</u>						P		
	Hama	100						
			EF x 2					
			CC x 2					
			STR					
			WR					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: SYRIA								
<u>General Organisation of Engineering Industries</u>								
	El Zora			(700)	(Unlikely)	S		
				(700)	DR (MIDREX) EF x 2 STR x 2			
<u>Syrian Galvanised Pipes Co</u>								
	Marjeh Square, Damascus							
			ERW x 3					
Country: UNITED ARAB EMIRATES								
<u>Ahli Steel Co.</u>								
	Jebel Ali, Dubai	450				P		
		(450)	EF					
		(450)	LF					
		(450)	CC					
		(450)	STR					
<u>Emirates Steel Pipes Industries</u>								
					(Possible)			MB 25-Nov-02
		(120)	SMLS x 2	(250)	STR			
			Hot					
			BLM					
Emirates Steel Pipes Industries, the Indian-owned pipe producer operation in Dubai's Jebel Ali Free Trade Zone, reportedly intends to install a new 250 000 tpy rebar rolling mill to produce 10-32 mm rebar in the Persian Gulf region.								

<u>Company</u>	<u>Plant/project</u>	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: UNITED ARAB EMIRATES								
<u>Liba Rolling Mill</u>	Mussafah					S		
		(500)	STR					

New Independent States

Unit: thousand tonnes per year

Country	Nominal capacity							Crude steel production	Apparent consumption
	exist	Increase to 2005			Capacity in 2005				
	2002	Firm	Possible	Unlikely	Mean	Low	High	2002	2002
Russia	73502	800	6300	3010	77425	3080	80602	59777	28275
Ukraine	57423	0	0	400	57423	9330	57423	34060	737
Others	13545	0	100	630	13595	5317	13645	7763	3231
Total	144470	800	6400	4040	148470	145270	151670	101610	32243

Note: Apparent consumption is in terms of crude steel.

Source: Capacity: OECD secretariat. Production and apparent consumption: IISI.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: LITHUANIA								
<u>Nemuno</u>								
	Kaunas plant							
		(100)	WR					
<u>The compact hot rolling mill project</u>								
	Klaipeda		(stainless)					
			STR					
			Cold (stn)					
Country: RUSSIA								
<u>Agrisovgaz</u>								
	Maloyaroslavets, Kaluga Region							
			STR					
		(60)	ERW					
<u>Alapayevsk Iron & Steel Works</u>								
	Sverdlovsk, Oblast				(Unlikely)			P
		(36)	BF		EF			
					ERW			

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **RUSSIA**

Almetyevsk Tube Works

Tatarstan

(500) ERW
 (130) ERW
 (30) ERW
 (50) ERW
 Ptg

Amurmeta!

Khabarovsk Region

300

(300) EF x 2
 EF
 (300) CC (billet)
 CC (billet)
 STR
 STR
 WR

Asha Iron and Steel Works

Asha

200 (stainless steel)

(200) OH x 3
 Plate
 Hot
 (50) Cold

P

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **RUSSIA**

Beloretsk Iron and Steel Works

Beloretsk, Bashkortostan	300			(Possible)				MB 06-Nov-03 MB 03-Oct-03
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(300)	BF x 2		HGL					
(300)	EF							
(600)	LF							
(600)	CC (billet)							
(600)	WR							
	Hot Rolling							

Beloretsk Iron and Steel Works is currently proceeding with its modernisation programme. The company plans to reconstruct the steelmaking and rolling mill to increase production volume and enlarge product range with the installation of galvanizing line.

Chelyabinsk Tube Rolling Works

Chelyabinsk	430	(stainless steel)		(Unlikely)				ISWW MB 28-Mar-02
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(430)	OH x 4		ERW					
(320)	SMLS							
(160)	SMLS							
	SMLS							
(889)	SMLS							
(924)	SMLS							
(3000)	ERW x 2							

The Chelyabinsk reportedly plans to invest USD 1 million to upgrade its large diameter pipe mill.

Cherepovetski Staleprokanny Zavod((Cherepovets Steel Rolling Mill))

Cherepovets, Vologda
Region

(460)	STR							
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Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **RUSSIA**

Chusovskoi Iron and Steel Works

		571		(1200)	(Unlikely)			MB28-Feb-02
	(260)	BF		(1200)	EF			
	(710)	BF		(1200)	CC (billet)			
		LD x 3			LD x 3			
	(250)	OH x 2						
	(600)	BTM						
	(180)	STR						
	(250)	STR						
	(132)	STR						
	(190)	Plate						

Chusovskoi Iron and Steel Works is planning to replace the existing outdated upstream facilities with a 1.2 million tpy electric arc furnace, three Bessemer converters and a continuous billet caster.

Elektrostal Joint Stock Co

Moscow Region	314	(stainless steel)						
	(314)							
		EF						
		IF						
		STR x 2						
		Rolling x 2						
		Plate						
		Cold						

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: RUSSIA								
<u>Gorkovskiy Steel Works</u>								
	Nizhny Novgorod	50						
		(50)	EF x 2 STR Hot					
<u>Guryevsk Steel Works</u>								
	Guryevsk, Kemerovo region	166				P		
		(166)	OH x 2					
		(320)	STR WR					
<u>Izhevsk Iron and Steel Works</u>								
	Izhevsk, Udmurtia	1000	(stainless steel)					
			EF x 6 OH x 5 CC (billet) x 2 BLM STR x 3					
<u>Izhora Tube Works</u>								
	St Petersburg							
		(800)	ERW					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								
Izhorskie								
	St. Petersburg	269	(stainless steel)		(Possible)		2005	HP MB09-Jun-03 MB01-Mar-04
			EF OH SMLS x 2 STR	(450)	SMLS			
Izhorskie reportedly intends to upgrade the existing pipe producing capacity with the installation of a new 450 000 tpy seamless pipe mill by investing USD 100 million in order to produce large diameter pipes by 2005.								
JV JSC Tulachernet								
	Novotul'skaya, Tula	24				P		
			(814) BF (455) BF (1230) BF (24) EF x 2 (30) CC (slab) (20) CC (slab)					
Kirov Works								
	St. Petersburg (Leningrad)	900						
			EF x 3 OH x 6 BTM STR SMLS					

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
Plant/project						Start-up date	Source
Country: RUSSIA							
<u>Kosaya Gora Iron Works</u>							
Satka Metallurgical Works (the Chelyabinsk region, the Urals)							
	(600)	BF x 3					
<u>Kuznetskiy Metallurgical Kombinat</u>							
Novokuznetsk, Kuzbas region	4510	(stainless steel)	(790)	(Unlikely)		2004, 2005	MB 10-Jun-03
	(900)	BF	(790)	EF			
	(900)	BF		Rolling			
	(900)	BF		CAPL			
	(1200)	BF					
	(650)	EF x 2					
	(60)	EF x 2					
	(3800)	OH x 14					
	(700)	CC (billet) x 2					
	(4700)	BLM					
	(600)	BTM					
	(1400)	STR					
	(1030)	STR					
	(200)	STR					
	(200)	STR					
	(140)	STR					
	(500)	Plate					
Kuznetskiy Metallurgical Kombinat (KMT) reportedly intends to expand the current steelmaking capacity of the melt shop with the installation of a new 790 000 tpy electric arc furnace by 2004. The company is also planning to build a rail mill and a annealing line at its works by early 2005.							
<u>Lebedinsky GOK</u>							
Gubkin, Belgorod Region							
	(1000)	HBI (HYL)					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								

Lysva Metallurgical Plant(LMZ)

Pern, western Urals

EGL
(120) HGL

Unit: thousand tonnes per year

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
Plant/project						Start-up date	Source
Country: RUSSIA							
Magnitogorsk Iron and Steel works Combine(MMK)					P	2004, 2005	
Magnitogorsk	11000		2000	(Possible)			MB 11-Apr-02 MB 26-Jul-02 MB 03-Apr-03 MB 09-Mar-04 MB 16-Mar-04
	(9010)	BF x 8	(1000)	CC (billet)			
	(3220)	OH x 5	(1000)	LF			
	(8830)	LD x 3	(200)	Ptg			
	(5000)	CC (slab) x 4	(2000)	EF			
	(5500)	LF		STR x 3			
	(4000)	BLM					
		BTM x 2					
	(8000)	Hot x 2					
	(2162)	Cold x 4					
	(1000)	STR					
	(800)	STR x 2					
	(600)	STR					
		WR					
	(1070)	Plate					
	(1480)	Rolling x 6					
	(313)	Tin Plate x 2					
	(143)	Tin Plate x 12					
	(500)	HGL x 2					
		ERW					
	(800)	Cold					
	(3500)	CC (billet) x 2					

In April 2003, Magnitogorsk Iron and Steel works (MMK) signed a contract to install a 1 million tpy ladle furnace, a 1 million tpy continuous billet caster and a 200 000 tpy coating line as part of current modernization plans. The construction of three facilities is scheduled to be completed by the end of 2004. The company also plans to modernize the upstream capacity by replacing the existing outdated open hearth furnaces with a new 2 million tpy electric arc furnace by 2005 or in early 2006.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								

Unit: thousand tonnes per year

Magnitogorsk Kalibrovochny Plant

Magnitogorsk, Chelyabinsk
Region

(970) Cold
WR

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								
Mechel	Chelyabinsk	4700	(stainless steel)		(Possible)		2004	ISWW
								MB 14-Nov-02
								MB 08-Sep-03
		(1000)	BF		EF			
		(550)	BF		STR			
		(850)	BF		CC			
		(900)	BF		BF			
		(1000)	BF					
			LD x 3					
			EF x 10					
			AOD					
			CC (slab)					
		(1900)	BLM					
			BTM x 2					
		(400)	STR					
		(170)	STR					
		(190)	STR					
		(140)	STR					
		(900)	STR					
			STR					
		(854)	WR					
			Hot					
			Cold					

Mechel (Chelyabinsk Integrated Iron & Steel Works) plans to upgrade the No.1 blast furnace and two rolling mills for long products by 2004. The company reportedly intends to install a new continuous caster in early 2004.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **RUSSIA**

Mill-5000 project

Nizhny Tagil

(Possible)

S/P

2004

MB 28-Mar-02

(1000) Plate

(600) ERW

Russian leading steelworks are currently vying for a USD 1 billion project known as Mill-5000 to produce large diameter pipes. The plant is to be built in Nizhny Tagil. The plant is operated by OAO Zavod TBD, a company established by the Russian state, Nizhny Iron and Steel, Gazprom and Switzerland-based steelmaker Duferco. The plate mill will have a capacity of 1 million tpy while the pipe mill will have an annual capacity of 600 000 tonnes of straight bead welded coated pipe. The pipe mill will be designed and built by the tube and copper plant division of German's SMS Demag AG. The new plant is reportedly due to come on stream in 2004.

Minya Steel and Wire Production Works

Chelyabinsk Region, Urals

STR

WR

Moscow Tube Works

Moscow

(stainless steel)

(96) ERW x 4

(120) ERW

Nizhegorodsky Metallurgical plant

36

(36) EF

STR

(34) Hot

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Unit: thousand tonnes per year							
Country:	RUSSIA						
<u>Nizhny Sergy Steel Works</u>							
Sverdlovsk Region, Urals	200		1200	(Possible)	P	2005	MB 26-Jan-04 MB 27-Nov-03
	(200)	OH x 2	(1200)	EF			
	(300)	STR	(1200)	LF			
		OH x 3	(1200)	CC (billet)			
		BTM					
		WR					
Nizhny Sergy Steel Works reportedly plans to install a 1.2 million tpy electric arc furnace, a ladle furnace and a continuous billet caster for re-rolling into bars, sections and wire rods by 2005.							
<u>Nizhny Tagil Iron & Steel Works(NTMK)</u>							
Jekaterinenburg region	4880			(Firm)	P	2004	MB 03-Oct-02 MB 17-Apr-02 MB 04-Jun-02 MB 10-Jun-03
		BF x 5		LF			
		LD x 4	(1500)	CC (slab)			
		OH		Plate			
		LF x 2		ERW			
		CC (bloom) x 2		BF (Coke-based)			
		CC (slab)					
		BLM					
		STR x 4					

Nizhny Tagil Iron & Steel Works (NTMK) plans to install a new 1.5 million tpy continuous slab caster in order to enter the Russian flat product market. NTMK signed a contract with Austria's Vest-Alpine Industrieranlagenbau (VAI) for the installation of the USD 68 million plant. The order includes a blast furnace, a ladle furnace and auxiliary facilities by 2004. NTMK also signed a contract for the installation of a heavy plate mill and a tube mill with VAI in co-operation with SMS Demag AG. The company reportedly plans to install new equipment at the mill in Sverdlovsk Oblast for the modernisation of plant by 2004.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								
<u>Novolipetsk Iron and Steel Works(NLMK)</u>								
	Lipetsk	8000			(Possible)	S/P	2004	MB 25-Apr-02
		(723)	BF	(2000)	CC (slab)			
		(1480)	BF	(1200)	Hot			
		(1620)	BF					
		(2650)	BF					
		(3002)	BF					
		(3000)	LD					
		(5000)	LD					
			EF x 2					
			CC x 13					
		(5650)	Hot x 2					
		(2000)	Cold x 5					
		(480)	Cold					
		(500)	HGL					
		(140)	Ptg					

During the period from 2000 to 2005, Novolipetsk Iron and Steel Works (NLMK) plans to invest a total of USD 1.1 billion in upgrading its steelmaking and rolling operations. NLMK has signed a USD 29.7 million contract for a 2 million tpy continuous slab caster with VAI of Austria. In addition, the company intends to install a new 1.2 million tpy hot rolling mill by 2004.

Novosibirsk Met Zavod Kuzmin

Novosibirsk

P

Hot
Cold
Cold
ERW

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
Plant/project						Start-up date	Source

Country: **RUSSIA**

Novostal Project

Tula

S/P

AMM 11-Apr-02

MB 11-Apr-02

(3000) HBI (HYL)

According to the news source, Ferrostaal AG and Essen of Germany, the Russian Ministry of Economic Development and Tula regional authority in Russia are considering constructing a 3 million tpy hot briquetted iron(HBI) plant which is named Novostal provisionally at Tula.

Omutninsk Metallurgical Plant

Omutninsk, Kirov Region

209

P

(209) OH x 2

(166) BTM

(170) STR x 3

(16) STR

Orsk-Khalilovo Iron and Steel Combine

Novotroitsk, Orenburg
Region

4820

(3400) BF x 4

(1920) OH x 5

(1600) OH x 2

(1300) EF x 2

(700) CC (bloom) x 2

(4000) BLM

(1300) Plate

(1500) STR

(750) Rolling

(800) CC (slab)

LF

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
Plant/project						Start-up date	Source
Country: RUSSIA							
<u>OSKOL Electric Steel Works(Formerly Kurk Works OEMK)</u>					S/P		
Stary Oskol, Belgorod Region	2060						
	(1800)	DR (MIDREX) x 4					
	(2060)	EF x 4					
		LF x 2					
		CC (bloom)					
	(1450)	BTM					
	(1000)	WR					
	(950)	BTM					
	(1000)	STR					
<u>Pervouralsk Novotrubny Tube and Pipe Works</u>							
Pervouralsk, Sverdlovsk Region		(stainless steel)					
		EF x 5					
	(11)	SMLS					
	(300)	SMLS x 2					
	(85)	ERW x 4					
	(170)	ERW x 2					
	(3)	ERW x 2					
<u>Petrostal Metallurgical Works</u>					P		
St Petersburg							
		BLM					
		BTM					
	(300)	STR					
		Hot					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **RUSSIA**

Petrovsk-Zabaykalsky Steel Works

Chita Region 300 (Unlikely) ISWW

(300) OH x 3 EF
STR x 2

Petrovsk-Zabaykalsky Steel Works is reportedly planning to modernize the upstream facilities by replacing existing three open hearth furnaces with a new steelmaking plant comprised of an electric arc furnace.

Public Joint Stock

Moscow 314

(314) EF
IF
STR
Plate

Red October Steel Works

Volgograd 5400

EF x 2
CC (billet) x 2
BLM
WR
STR
Plate

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **RUSSIA**

Revdinsky Metallurgical Works

Revda, Sverdlovsk Region	1000			1000	(Possible)	P	2005	MB 27-Nov-03 MB 26-Jan-04
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(1000)	EF	(1000)	EF
	OH x 2	(1000)	CC (billet)
(360)	WR	(1000)	LF

Metallurgical Holding, a Russian private company, intends to install a new 1 million tpy electric arc furnace, a 1 million tpy ladre furnace and a continuous billet caster at the Revdinsky Metallurgical Works. The plant is under construction by VAI Fuchs, the Austrian steel equipment supplier, due to be completed by 2005.

Salda Steel Works

Nizhnaya Salda, Sverdlovsk Region	7
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(7)	EF
(150)	STR
(178)	STR
(144)	STR
(350)	SMLS

Satka Metallurgical Plant

Satka, Chelyabinsk Region

(300)	BF x 2
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Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								
Serov Iron and Steel Works							2005	
	Serov, Sverdlovsk Region	1000		800	(Firm)			MB 06-Oct-03 MB 28-Nov-02
		(201)	BF	(800)	EF			
		(201)	BF		CC			
		(203)	BF					
		(1000)	OH x 6					
		(750)	LF x 3					
		(300)	STR					
		(300)	STR					
		(150)	STR					

The Serov Iron and Steel Works, which is owned by The Urals Mining and Metallurgical (UGMK), reportedly plans to install a new 800 000 tpy electric arc furnace by late 2005 as part of the second modernization scheme, aiming at replacing its open hearth furnaces and finally intends to install a new continuous caster by 2005-2006. The installation of the new electric arc furnace is under construction by the Italian plant maker, Danieli.

Serp i Molot Metallurgical Works

Moscow	(stainless steel)
	EF x 5
	CC (billet)
	STR
	STR
	WR
	Cold
	Cold x 2

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								
Seversky Tube Works								
	Polevskoi, Sverdlovsk Region	800			(Possible)			MB 19-Sep-02 HP
		(800)	OH x 4		LF			
		(483)	SLM		CC (bloom)			
		(320)	SMLS	(230)	SMLS			
		(320)	ERW					
		(180)	ERW					
		(45)	ERW					
		(13)	ERW					
		(100)	ERW					
		(100)	ERW					

Seversky Tube Works reportedly intends to modernize the existing steelmaking facilities with the investment of USD 15 million by installing a new ladle furnace and a bloom caster to feed the new seamless mil. The new equipment is expected to raise seamless tube capacity from 320 000 tpy to 550 000 tpy.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								
Severstal(Cherepovest Iron and Steel Works)							2004	
Cherepovest, Vologodskaya Region		9700	(stainless steel)		(Possible)			MB 28-Mar-02 MB 23-Jul-02 HP MB 25-Feb-04
		(9000)	BF x 5	(400)	HGL			
		(7000)	LD x 3	(200)	Ptg			
		(600)	EF x 2					
		(1100)	EF (shaft furnace)					
		(1000)	OH x 4					
		(8100)	CC x 7					
		(5500)	SLM					
		(3100)	BTM					
		(1050)	STR					
		(570)	STR					
		(450)	WR					
		(800)	WR					
		(500)	Plate x 2					
		(800)	Plate					
		(5500)	Hot					
		(1000)	Cold					
		(1500)	Cold					
			ERW					
		(180)	HGL					
		(320)	HGL					
		(1500)	CC (billet)					

Severstal is reportedly planning to construct a new 400 000 tonnes/year galvanizing plant in Cherepovets by 2004. The new plant will be owned 75% by Severstal and 25% by Usinor, France and this joint venture is called "Severgal". This plant is scheduled to complete in 2004. The company also plans to install a new 200 000 tpy coating line for automobiles industry. According to the source, Severstal intends to invest USD 50 million to expand the facilities of pipe production in 2004.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: RUSSIA								
<u>Sibelectrosta Metallurgical Works.</u>								
	Ekaterinburg Region	105	(stainless steel)					
		(105)	EF x 2 SMLS STR					
<u>Sickle and Hammer Works</u>								
	Moscow	70				P		
		(70)	EF x 4 CC x 2 STR WR Hot Cold					
<u>St Petersburg Steel Rolling Mill</u>								
	St Petersburg							
		(40)	WR					
		(8)	Cold					
<u>St Petersburg Tube and Pipe Works</u>								
	St Petersburg					S		
		(56)	ERW					

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	Start-up date	Source
Country: RUSSIA								
<u>Sulinsky Metallurgichesky Zavod (Staks)</u>								
Rostov-on-Don Region	108		(300)	(Unlikely)	P		2006	ISWW MB20-Feb-03
	(108)	EF x 2	(300)	LF				
	(108)	CC (billet)	(300)	Rolling				
		STR	(300)	EF				
		WR						
Mair, the Russian giant scrapper and the owner of Sulinsky Steel Works since 2001, reportedly unveiled a plan to modernize the Sulinsky Works with the investment of USD 30 million by installing a new 300 000 tpy electric arc furnace and a ladle furnace, aiming at increasing the continuous billet casting capacity by 2005 or 2006.								
<u>Svobodny Sokol Metallurgical Works</u>								
Lipetsk								
	(252)	BF x 3						
<u>Taganrog Iron and Steel Works(Tagmet)</u>								
Taganrog, Rostov-on-Don Region	645	(stainless steel)	1000	(Possible)	P		2005	MB22-Apr-02
	(645)	OH x 3	(1000)	EF				
	(500)	SMLS x 4	(1000)	CC (billet)				
		ERW x 6	(500)	SMLS				
Tagmet is reportedly planning to expand the upstream steelmaking facilities with the installation of a new 90 tonne electric arc furnace and a continuous billet caster by 2005. The company also plans to purchase a new seamless tube mill that will enable the company to produce smaller diameter pipe. The installation of the facilities being implemented at the Works in Rostov-on-Don Region is scheduled for completion by 2005.								
<u>Trubostal Tube Works</u>								
St Petersburg								
	(100)	ERW						
	(73)	ERW						

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **RUSSIA**

Tulachermet

Tula, south of Moscow

(1000) (Unlikely)

MB 16-Mar-04

(1000) Steelmkg

Tulachermet, a Russian leading pig iron producing company reportedly intends to construct a 1 million tpy steel meltshop at its plant in Tula, south of Moscow.

United Metallurgical Co(UMC)

Moscow

1100 (Possible)

2005

MB 26-Mar-02

MB 16-Apr-02

OH
Rolling

(800) EF
CC
(240) SMLS
(300) LD x 3

UMC has started building a new steelmaking plant with a 800 000 tpy electric arc furnace, a continuous caster and a 240 000 tpy seamless pipe mill at Chusovoi in April 2002. The project will be completed by 2005. Also the company reportedly intends to install three LD converters with a capacity of 300 000 tpy.

Ural Precision Alloys Works (UZPS)

Berezovsky, Sverdlovsk
Region

IF x 3
Hot
Cold x 3

Verkh-Isetsk Iron and Steel Works

Yekaterinburg

P

Cold x 3
Cold

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	Start-up date	Source
Plant/project								
Country: RUSSIA								
<u>Volvograd Tube Works</u>								
Volgograd								
	(96)	ERW x 3 ERW x 3						
<u>Volzhsky Pipe Works</u>								
Volzhsky, Volgograd Region	520		(720)	(Unlikely)				MB 17-Sep-03 MB 06-Nov-02
	(520)	EF x 2 LF	(720)	EF ERW				
	(520)	CC (billet) x 2 SMLS x 4		Plate				
	(1500)	ERW x 6						
A consortium led by Russian MDM-Bank reportedly took a major stake in Volzhsky Pipe Works in 2000. One of MDM's consortium partners, Trustpromholding, decided to be directly responsible for the pipemaker and preside over a number of investment projects at the works. The works' investment plans include the installation of a new 720 000 tpy electric arc furnace and the upgrade of its 2 500 mm electric-resistance welded pipe line. In September 2003, the company reportedly plans to install a plate mill for production of large diameter pipes.								
<u>Vyksa Iron and Steel Works</u>								
Vyksa, Nizhegorodskaya Region	480			(Unlikely)				ISWW MB 26-Jun-03
	(480)	OH x 3		SMLS				
	(330)	ERW						
	(660)	ERW						
	(1000)	ERW						
	(350)	ERW						

Vyksa Iron and Steel Works reportedly intends to install a large diameter pipe mill with the investment of USD 500 million.

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Unit: thousand tonnes per year							
Country:	RUSSIA						
Zapsib-West Siberian Steel Works							
Novokuznetsk (Kuzbas)	6900		(Possible)		S	2005	MB 03-Dec-03 MB 28-Jan-02 MB 11-Jun-02 MJ 21-Nov-02 MB 25-Nov-02 MB 10-Jun-03
	(2200)	BF	(400)	CC (billet) x 2			
	(2200)	BF	(3000)	CC (billet) x 3			
	(1600)	BF	(2400)	CC (slab)			
	(3500)	BS x 3		WR			
	(3400)	BS x 2	(3000)	CC (bloom) x 2			
	(1000)	CC (bloom) x 2		LF			
	(6500)	BLM					
		BTM					
	(1600)	STR					
	(1800)	STR					
	(1300)	STR					
	(1000)	WR					
	(1300)	CC (slab)					

According to the news source, Zapsib is updating its continuous billet casting capacity from 1 million tpy to 1.4 million tpy. Zapsib also operates a 1 million tpy wire rod mill and plans to install a second wire rod mill. The company plans to install three continuous billet casters with each capacity of 1 million tpy and a 2.4 million tpy slab caster by the end of 2005. In addition, the company also intends to install two continuous bloom casters with a capacity of 3 million tpy and a ladle furnace by mid-2005.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: RUSSIA								
Zlatoust Iron and Steel Works								
	Zlatoust, Chelyabinsk Region	900	(stainless steel)					
		(200)	OH x 4 EF x 3 BLM IF CC BTM STR STR STR					
Country: UKRAINE								
Alchevsk Iron and Steel Works								
	Alchevsk, Lugansk Region	3290	(stainless steel)	(Unlikely)		S/P	2005	ISWW MB 23-Jul-02 MB 25-Feb-04 MB 11-Dec-03
			BF x 4 OH x 6 EF x 3 STR Plate x 2		CC (slab) x 2 LF x 2			

Alchevsk Iron & Steel Works, the Ukrainian largest special steel producer focusing on stainless steel, reportedly intends to install two continuous slab casters and two ladle furnaces, aiming at raising the finished rolled steel production by 2005.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: UKRAINE								
<u>Azovstal Iron and Steel Works</u>						S		
	Zhdanov (Mariupol)	8300						
		(6000)	BF x 6 OH x 7 LD x 2 EF CC (slab) x 3					
		(1400)	BLM					
		(560)	STR					
		(560)	STR					
		(1200)	Plate					
<u>CJSC Mini Steel Mill Istil</u>						P		
	Donetsk	1000						
		(1000)	EF x 2 LF CC (billet)					
<u>Dnepropetrovsk Comintern Steel Works</u>								
	Dnepropetrovsk							
		(96)	ERW					
		(96)	ERW					
		(32)	ERW					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: UKRAINE								
<u>Dnepropetrovsk Iron and Steel Works(Petrovsky)</u>						S/P		
	Dnepropetrovsk	1000						
		(1100)	BF x 3					
		(1000)	LD x 3					
			BLM					
			Plate					
			STR					
<u>Dnepropetrovsk Tube Works</u>						P		
	Dnepropetrovsk							
		(200)	SMLS					
		(150)	SMLS					
			ERW x 2					
<u>Dneprospetsstal Electrometallurgical Works</u>							2004	
	Zaporozhye	1000	(stainless steel)	(Possible)				MB 10-Feb-03
								HP
		(1000)	EF x 3		LF			
			LF		Rolling x 2			
			IF					
			AOD					
			CC					
			BLM					
		(1155)	STR x 3					
			WR					
			IF					

Dneprospetsstal Electrometallurgical Works announced a plan to install two bar mills and a new ladle furnace which is scheduled to be implemented in 2004.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: UKRAINE								
<u>Dneprovsky Iron and Steel Works (DMK)(former Dzerzhinsky Works)</u>						S	2005	MB 07-Nov-03
	Dneprodzerzhinsk	2800		(Possible)				
		(1090)	BF		BF			
		(815)	BF		LF			
		(815)	BF					
		(815)	BF					
		(2800)	LD x 2					
		(1400)	CC (bloom) x 2					
		(700)	BLM					
		(370)	BLM					
		(1080)	STR					
		(100)	Rolling					

Industrial Union of Donbass, the Ukrainian steel trader and the owner of Dneprovsky Iron and Steel Works (DMK), reportedly plans to spend USD 100 million to enlarge the inner of the existing blast furnaces and install a new ladle furnace at its DMK Works, aiming at increasing steel production capacity up to 5 million tpy by 2005.

Dnieper Special Steel Works

Zaporozhye	5800	(speciality steel)
	(5800)	
		EF x 20
		OH x 18
		BLM
		STR x 3

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
Plant/project						Start-up date	Source
Country: UKRAINE							
<u>Donetsk Iron and Steel Works(Donetsk Metallurgical works (DMZ))</u>							
Donetsk	840			(Unlikely)	P	2004	MB 17-Sep-02 MB 11-Sep-03
	(1270)	BF x 2		LF			
	(840)	OH x 5					
	(1700)	CC (slab)					
		STR					
DMZ has just completed a project of upgrading the existing continuous slab casting capacity from 1.5 million tpy to 1.7 million tpy in 2003. The company is reportedly planning to install a ladle furnace in 2004 as part of a modernization programme.							
ISTIL DMZ - mini-mill division of DMZ	1000						
	(1000)	EF x 2					
		LF					
	(1000)	CC (billet)					
	(1400)	BLM					
<u>Donetsk Metal Rolling Works</u>							
Donetsk			(400)	(Unlikely)	S		
	(156)	STR	(400)	EF			
			(400)	CC (billet)			

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **UKRAINE**

Electrostal Machine Building Works

Kramatorsk 600

EF
OH x 4
BLM
STR

Frunze Iron and Steel Works

Konstantinovka 1000

BF x 2
OH x 5
BTM
STR

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: UKRAINE							
<i>Ilyich works</i>							
Mariupol, Donetsk Region	7300		(Firm)		P	2004	MB 11-Nov-03 MB 09-Jun-03
	(830)	BF	(1100)	CC (slab)			
	(830)	BF		LD			
	(1200)	BF		Hot			
	(1350)	BF					
	(1600)	BF					
	(3053)	LD x 3					
	(4100)	OH x 5					
	(3000)	CC (slab)					
	(6300)	SLM					
	(200)	Plate					
	(1700)	Plate					
	(3000)	Plate					
	(3800)	Hot					
	(1400)	Cold					
	(263)	SMLS x 2					
		ERW x 2					
		HGL x 2					

The Ilyich works in Mariupol, the second largest steel producer in Ukraine, is planning to install a 1.1 million tpy continuous slab caster which will be feeded to its plate mills. The construction of installing the facilities is being implemented by the Ukrainian plantmaker Novokramatorsky Machine Building works. The company also intends to invest USD 120 million to modernize the current steelmaking facilities with the installation of a oxygen furnace and a wide hot strip mill.

Khartsyzsk Tube Works

S/P

Khartsyzsk, Donetsk Region

(600) ERW
(1000) ERW

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **UKRAINE**

Konstantinovsky Iron and Steel Works

Konstantinovka, Donetsk Region

(220) BF
 (170) BF
 (324) STR

Kramatorsk Steel Works

Kramatorsk, Donetsk Region

253

BF x 2
 (253) OH x 3
 (100) STR
 (90) STR

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
Plant/project						Start-up date	Source
Country: UKRAINE							
<u>Krivoy Rog Iron and Steel Works</u>							
Krivoy Rog, Dnepropetrovsk Region	5035		(Possible)		S	2004	MB 20-Jan-04 MB 13-Nov-03
	(1180)	BF		LF			
	(1410)	BF		BF			
	(1400)	BF		CC (bloom)			
	(1500)	BF					
	(1900)	BF					
	(4000)	BF					
	(1450)	OH x 3					
	(3585)	LD x 6					
	(3400)	BLM					
	(4700)	BLM					
	(435)	STR					
	(465)	STR					
	(465)	STR					
	(755)	STR					
	(915)	STR					
	(605)	WR					
	(645)	WR					
	(600)	WR					

Krivoy Rog Iron and Steel Works (Krivorozhstal) plans to invest USD 173.7 million in 2004 on repair and upgrade works, including the revamp of No.8 blast furnace. The company also intends to install a ladle furnace and a continuous bloom casting machine, aiming at transferring bloom production from current ingot to continuous casting.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **UKRAINE**

Kuribyshev Iron and Steel Works

Kramatorsk 700

BF x 4
 EF
 OH x 5
 BLM
 BTM
 STR
 Hot
 Cold

Lugansk Tube Works

Lugansk

(300) ERW x 5

Makeevsky Tube Casting Plant

Makeevka, Donetsk Region

S

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: UKRAINE								
<u>Makeyevsky Kirov Iron & Steel Works</u>						S/P		
	Makayevka	4050						
		(3300)	BF x 4					
		(4050)	OH x 11					
			BLM					
			BTM					
		(300)	STR					
		(120)	STR					
		(400)	STR					
		(700)	STR x 2					
		(570)	STR					
		(500)	WR					
		(700)	WR					
<u>Nikopol Pivdennotrubny Tube Works (formerly Nikopol Yuzhnotrubny)</u>						S		
	Dnepropetrovsk Region	35	(stainless steel)					
		(35)	EF x 11					
			SMLS x 2					
			ERW x 3					
			Cold x 2					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
							Start-up date	Source
Country: UKRAINE								
<u>Nizhnedneprovsky Tube Rolling Works</u>						P		
	Dnepropetrovsk	700						
		(700)	OH x 4					
		(204)	SMLS					
		(490)	SMLS					
		(38)	SMLS					
		(30)	SMLS					
		(5)	SMLS					
		(80)	SMLS					
		(135)	SMLS					
		(17)	SMLS					
		(121)	ERW					
<u>Novomoskovsk Pipe Plant</u>								
	Novomoskovsk		(stainless steel)					
		(330)	ERW					
		(600)	ERW					
		(7)	ERW					

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	Start-up date	Source
Plant/project								

Country: **UKRAINE**

Yenakiyev Iron and Steel Works

Yenakiyevsky	3000		(Unlikely)				ISWW	MB20-Aug-02
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(900)	BF	LD x 3
(700)	BF	STR x 3
(700)	BF	WR
(700)	BF	
(3000)	LD x 3	
(3200)	BLM	
(1600)	STR	
(250)	STR	
(2400)	STR	
(800)	WR	
	LF	
	CC (billet)	

The company reportedly has a plan to update the existing four rolling mills and three converters with the investment of USD 70 million as part of modernisation programme.

Zaporozhye Steel Works(Zaporozhstal)

Zaporozhye	3920	(stainless steel)				S		
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(4200)	BF x 5	
(3920)	OH x 9	
(5200)	SLM	
(2500)	Hot	
(1180)	Cold x 6	
	Tin Plate	

Country: **OTHERS**

AZERBAIJAN

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: OTHERS								
AZERBAIJAN								
<u>Azerbaijan Tube Rolling Plant Works(Azerboru)</u>								
	Sumgait	850			(Unlikely)		2005	MB 12-Feb-04 MB 07-Mar-03
		(850)	OH x 6		EF			
		(700)	BLM x 2		CC (billet)			
		(960)	SMLS x 3		LF			
Azerbaijan Tube Rolling Plant Works reportedly has a plan to build a new meltshop equipped with an electric arc furnace, a continuous billet caster and a ladle furnace by mid-2005.								
<u>Baku Steel</u>								
		120		(230)	(Unlikely)		2004	HP
		(120)	CC (billet)	(230)	EF			
		(120)	EF		LF			
		(120)	STR	(110)	STR			
Baku Steel Co., the new mini-mill headed by Iranian entrepreneur Paul Parviz, reportedly has a second phase of expansion plan which will be installed the additional 50-tonne electric arc furnace and a ladle furnace. The company is aiming to increase its steelmaking capacity to 350 000 tpy and annual rolling capacity will be increased to 230 000 tpy.								
BELARUS								
<u>Belaruse Steel Works (BMZ)</u>								
	Zhlobin, east of Berarus	1500						
		(1500)	EF x 3					
		(360)	CC (billet) x 2					
		(336)	CC (bloom)					
		(320)	BTM					
		(500)	WR					
		(135)	WR					
		(165)	WR					
			STR					

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
Country: OTHERS								
GEORGIA								
<u>Rustavi Iron and Steel Works</u>								
	Rustavi	1430		(400)	(Unlikely)	S/P		MB 03-Mar-03 MB 30-May-02 MB 05-Jun-02 MB 16-Sep-02
		(400)	BF	(400)	EF			
		(1430)	OH x 8	(400)	LF			
			BTM	(400)	CC (billet)			
			STR					
		(240)	SMLS x 2					
Rustavi Iron and Steel Works reportedly has a modernisation programme of investing USD 135 million to establish a mini mill plant, involving the installation of a 50-tonne electric arc furnace and a 400 000 tpy billet caster, the reconstruction of the blast furnace and the upgrade of the finishing line at the tube production shop.								
KAZAKHSTAN								
<u>Ispat Karmet JSC</u>								
	Karaganda	7200			(Possible)	P	2005	MB 13-Oct-03 MB 31-Jul-02
		(5350)	BF x 3	(6000)	CC (slab) x 2			
		(1200)	OH x 2		HGL			
		(5000)	LD x 3		Tin plate			
		(6000)	SLM					
		(4600)	Hot					
		(1400)	Cold					
		(800)	Cold					
		(320)	Tin Plate					
		(320)	HGL					
		(415)	HGL					

Ispat Karmet JSC is reportedly planning to modernize the steel facilities by converting the current ingot casting process to continuous casting of slab with the installation of two new continuous slab casters. Under the modernisation plan, the company also intends to update the No.2 galvanising line and install a new tin plate line.

Company	Plant/project	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Start-up date	Source
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Unit: thousand tonnes per year

Country: **OTHERS**

LATVIA

Liepajas Rupnica Sarkanais Metallurģs (Red Metal Worker Works)

Liepaja	445		(Unlikely)		P		MB 01-Mar-04
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(445)	OH x 3 CC (billet) x 2	(350)	Rolling
(500)	STR		
(300)	WR		

Liepajas Rupnica Sarkanais Metallurģs is Latvia's only steel producer. The company is planning to establish a joint venture to construct a wire rod and sections rolling mill with a capacity of 350 000 tpy at its Liepajas plant.

MOLDOVA

Moldova Steel Works (MMZ)

Rybnitsa	1200		(Possible)			2004	MB 13-Oct-03 MB 03-Mar-04
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(1200)	EF x 2 LF	(300)	CC (billet)
(1200)	CC (billet) CC (billet)		
(900)	STR ERW WR		
(200)	STR		

Moldova Steel Works reportedly intends to expand the billet casting capacity to raise the production capacity of semi finished steel with the installation of a 300 000 tpy continuous billet caster by the end of 2004.

TURKMENISTAN

Company	Existing capacity	Existing equipment	Increase in capacity	Additional equipment	Ownership	Unit: thousand tonnes per year	
Plant/project						Start-up date	Source
Country: OTHERS							
TURKMENISTAN							
<u>Turkmenistan mini-mill project</u>							
Mary			100	(Possible)			MB26-Jun-03
			(100)	EF x 2			
			(100)	CC (billet)			
			(100)	STR			
Turkmenistan's government reportedly plans to establish a mini mill plant comprising of a 100 000 tpy electric arc furnace, a continuous billet caster and a rebar/section mill in the town of Abadan.							
<u>Zahyd Traders</u>							
		(15)		STR			
UZBEKISTAN							
<u>Uzbek Iron and Steel Works</u>							
Bekabad, Tashkent Region	800			(Firm)	S	2004	MB20-Feb-03 MB08-May-02
		(800)		EF x 4	(150)		WR
				OH			
		(800)		CC (billet) x 3			
		(460)		STR x 2			

Uzbek Iron and Steel Works reportedly plans to install a new 150 000 wire rod mill, which will be supplied by German plantmaker Sket.

APPENDIX

TWO-YEARLY REPORT ON DEVELOPMENTS IN STEELMAKING CAPACITY IN NON-OECD ECONOMIES

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ERRATA

In the preparation of this publication, certain errors in the Appendix could not be corrected prior to printing:

- Afghanistan is included in the section on the Middle East instead of Asia.
- Cyprus is included in the section on the Middle East instead of “Other Europe”.
- Estonia is included in the Central and Eastern Europe area instead of the New Independent States category.

We apologise for these errors, which will be corrected in the next edition of this publication.

NOTES TO THE APPENDIX

Methodology

In order to estimate the steelmaking capacity of non-OECD economies in the year 2005, the expansion projects of those economies were classified as “firm”, “possible”, or “unlikely” on the basis of whether plans would proceed and be completed by 2005. The criteria used to classify the projects included:

- Current stage of each project: feasibility study, planning, government approval, tendering, construction or suspension of construction.
- Availability of financial resources for each project.
- Domestic steel market: apparent steel consumption in terms of current size.
- Intention of government to establish and expand the industry; and
- Availability of raw materials and energy.

Each project was evaluated for the likelihood of its completion by 2005 according to the above criteria. Although information on a number of aspects was often lacking, the figures included in the tables are considered appropriate in the light of the original sources of information and the evidence available. The classification of projects and comments on their progress do not in any way represent a judgement or imply a view on the advisability or feasibility of the projects.

A project classified as “firm” is one which is under construction or for which contracts have been awarded and to which a major financial or state commitment has been made and which is due and on schedule for completion before 2005. “Possible” projects are those under construction or for which contracts have been awarded, but which have been delayed due to financial or technical problems and whose completion may not be realised by 2005. “Unlikely” projects are those at the feasibility or early planning stage, those yet to receive financial or state backing and those not scheduled for completion by 2005. In the Appendix, those projects are noted in the column “comments” and, in some cases, presented in brackets in the column “increase in capacity”, but are not included in the estimation of steelmaking capacity in the year 2005.

The estimate of each country’s capacity in 2005 has been obtained by adding to their existing capacity the capacity of “firm” projects and half the proposed capacity of all “possible” projects in the country. The principle of including only half the total capacity of possible projects is used as a surrogate for complete project-by-project assessments.

EXPLANATORY NOTES

Abbreviations used for equipment are:

BF	Blast furnace, of which: - charcoal - coke-based - mini
EPIF	Electric pig iron furnace
Corex	Corex ironmaking unit
DR	Direct reduction unit, of which - Codir - Finmet - Fior - HYL - Krupp - Midrex - Plasma - SLRN
IC	Iron Carbide
LF	Ladle furnace
OH	Open hearth furnace
LD	LD Basic oxygen furnace
BS	Basic Bessemer converter
EF	Electric arc furnace, of which - DC
EOF	Energy optimising furnace
Steelmkg	Unspecific steelmaking unit
CAPL	Continuous annealing and pickling line
CC	Continuous casting machine, of which - slab - thin slab - bloom - billet - round billet
SLM	Slabbing mill
BLM	Blooming mill
BTM	Billet mill
WR	Wire rod mill
STR	Bar, section, shape, beam or angle mill
Plate	Plate mill
Hot	Hot strip mill
SMLS	Seamless tube mill
Cold	Cold strip mill
HGL	Hot-dip galvanising line
EGL	Electro galvanising line
ZnAl	Zincaluminum coating line
Tin plate	Tin plate
Ptg	Painting line (colour coating)
ERW	Electric-resistance welded pipe mill
Rolling	Unspecific rolling mill

Capacity figures are nominal or rated capacity. The unit of capacity figures is a thousand tonnes per year, unless otherwise stated.

“Existing capacity” and “existing equipment” are those estimated as of the end of December 2002.

The capacity figures given in this report have been estimated on the basis of the most reliable information available. Nevertheless, as the information sources are limited, many of the capacity figures quoted relate to the nominal or rated capacity. In some cases, however, nominal capacity figures have been modified in line with data on actual production or aims of modernisation projects.

The “ownership” column shows a distinction between state-owned plants or projects (S) and those which are privately owned (P).

Sources of information are indicated in the column “source”. The sources given relate to developments since October 1999 in principle. Listed capacity figures are not necessarily identical to these sources’ estimates. The abbreviations used in the “source” column are:

AKM	AK&M Information Agency in Russia
AMM	American Metal Market
AP	The Associated Press News Report
ATN	Asia Times News
Bday	Business Day (published in Thailand)
BMM	BBC Monitoring Middle East
BNA	Business News Americas
BS	Business Standard (published in India, on the Internet)
Bpost	Bangkok Post (published in Thailand)
CD	China Daily
CEO	Central Europe Online
CI	China Insight
CMN	China Metallurgical Newsletter
CNN	Cable News Network
CSI	Chinese Steel Industry (published by East & West Trade News Agency in Japan)
CT	The Culcutta Telegraph (published in India, on the Internet)
Danieli	Danieli PR
DJ	Dow Jones Newswires
ET	The Economic Times (published in India, on the Internet)
FE	The Financial Express (published in India, on the Internet)
FT	Financial Times
Hindu	The Hindu (published in India, on the Internet)
HP	Internet home page of the company concerned
IBS	Instituto Brasileiro de Siderurgia (Brazilian Steel Institute)
IF	Interfax Information Services
IHT	International Herald Tribune
ILAFA	Latin American Iron And Steel Institute
ISWW	Iron and Steel Works of the World (published by Metal Bulletin Books)
IT	The India Times (published in India, on the Internet)
Karmet	Home page of Ispat Karmet JSC
KH	The Korea Herald (published in Korea, on the Internet)
KR	Korea Report (published in Korea, on the Internet)
ManiB	Manila Bulletin (published in the Philippines, on the Internet)
MB	Metal Bulletin
MBM	Metal Bulletin Monthly
ME	ME Steel (on the Internet)

MJ	Mining Journal
MPTI	Metallurgical Plant and Technology International
NES	New Steel
Net	Information obtained on the Internet
NK	Nihon Keizai Shimbun (published in Japan)
nks	Nikkan Kogyo Shimbun (published in Japan)
NW	Nikkei Weekly (published in Japan)
PD	People's Daily in China (published in China, on the Internet)
Reu	Reuters Ltd. (on the Internet)
SA	Steel Alert
SEAISI	South East Asia Iron and Steel Institute Newsletter
SI	Silicon India (on the Internet)
SN	Steel News
SS	Sangyo Shimbun (published in Japan)
ST	Steel Times
Star	The Star Malaysia (published in Malaysia, on the Internet)
SW	Steelworld
TK	Tekkokai (published by The Japan Iron and Steel Federation in Japan)
TS	Tekko Shimbun (published in Japan)
Vizag	Home page of Vizag
WSJ	Wall Street Journal
WMR	World Metal Review (published in China)
XNA	Xinhua News Agency (published in China, on the Internet)
VIR	Vietnam Investment Review (published in Vietnam, on the Internet)

APPENDICE

LES CAPACITÉS DE PRODUCTION D'ACIER DANS LES ECONOMIES NON-OCDE : RAPPORT BIENNAL

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ERRATA

Au cours de la préparation de la publication quelques erreurs se sont glissées qui n'ont pu être corrigées à temps avant l'impression. Ces erreurs sont les suivantes :

- L'Afghanistan s'est glissé au Moyen Orient au lieu d'être placé en Asie ;
- Chypre est placé au Moyen Orient au lieu d'être dans les « Autre Europe » ;
- L'Estonie est située dans les Pays d'Europe centrale et orientale au lieu d'être dans les N.E.I.

Nous vous prions de bien vouloir nous excuser pour ces quelques erreurs qui seront corrigées lors de la prochaine édition.

NOTES SUR L'APPENDICE

Méthodologie

Aux fins d'estimation des capacités d'acier dans les économies non membres de l'OCDE en l'an 2005, les différents projets d'expansion de ces pays ont été classés en trois catégories : « ferme », « possible » ou « peu probable », selon qu'ils devraient être mis en route ou achevés d'ici l'an 2005. Les projets ont été classés en fonction des critères suivants :

- Stade actuel d'avancement de chaque projet – étude de faisabilité, planification autorisation officielle, appel d'offres, exécution ou arrêt, des travaux de construction.
- Disponibilité des ressources financières nécessaires pour chaque projet.
- Taille du marché intérieur de l'acier, telle qu'elle ressort de la consommation apparente d'acier.
- Intention de créer une industrie sidérurgique et/ou de la développer.
- Offre de matières premières et d'énergie.

Les possibilités d'achèvement d'ici l'an 2005 des différents projets étudiés ont été évaluées au regard des critères mentionnés ci-dessus. Si les informations sur un certain nombre d'aspects faisaient assez souvent défaut, les chiffres indiqués dans les tableaux sont considérés comme exacts, en fonction des sources d'informations consultées et des données disponibles. Le classement des projets et les commentaires formulés sur leur état d'avancement n'expriment, en aucun cas, un jugement de valeur sur l'opportunité ou la faisabilité des projets.

Ont été classés dans la catégorie « ferme » les projets qui sont en cours de réalisation ou pour lesquels des contrats ont été attribués, ont fait l'objet d'engagement majeurs sur le plan financier ou au niveau officiel et qui devraient, selon le calendrier d'exécution des travaux, être terminés d'ici 2005. Ont été classés dans la catégorie « possible », les projets qui sont en cours de réalisation ou pour lesquels les contrats ont été attribués, mais qui ont été retardés par des problèmes d'ordre financier ou technique et qui ne devraient pas être achevés d'ici 2005. Ont été classés dans la catégorie « peu probables », les projets qui en sont au stade des études de faisabilité ou au premier stade de la planification et n'ont pas encore mobilisé de ressources financières ou de soutien l'Etat, de même que les projets qui devraient être terminés après 2005. Dans l'Appendice, ces projets sont signalés dans la colonne des « commentaires » et dans certains cas, présentés entre crochets dans la colonne « accroissement des capacités », mais ne sont pas pris en compte dans les estimations des capacités de production d'acier en 2005.

L'estimation des capacités en 2005 a été obtenue, pour chaque pays, en ajoutant à ses capacités actuelles, les capacités des projets « fermes » + la moitié des capacités de tous les projets classés dans la catégories « possible » pour ce pays. Il a été décidé de tenir compte de la moitié seulement de la capacité totale des projets classés « possible » plutôt que de procéder à une évaluation plus précise de chaque projet.

NOTES EXPLICATIVES

Les signes et abréviations utilisés sont les suivants :

BF	Haut fourneau : - au charbon de bois - au coke - mini
EPIF	Four électrique fonte
Corex	Unité de réduction directe utilisant le procédé Corex
DR	Unité de réduction directe, procédés: - Codir - Finmet - Fior - HYL - Krupp - Midrex - Plasma - SLRN
IC	Iron Carbide
LF	Four à poche
OH	Four Martin
LD	Convertisseur LD à l'oxygène pur
BS	Convertisseur Bessemer basique
EF	Four à arc électrique, dont: - DC
EOF	Four à optimisation énergétique
Steelmkg	Unité de fabrication d'acier non spécifiée
CAPL	Ligne de recuit et de décapage, en continu
CC	Machines de coulée continue utilisées pour fabriquer des: - brames Brames minces - blooms - billettes - billettes rondes
SLM	Train à brames
BLM	Train à blooms
BTM	Train à billettes
WR	Train à fil-machine
STR	Train à barres, à profilés, à poutrelles ou à cornières
Plate	Train à tôles fortes
Hot	Train à bandes à chaud
SMLS	Train à tubes sans soudure
Cold	Train à bandes à froid
HGL	Ligne de galvanisation par immersion à chaud
EGL	Ligne d'électro galvanisation
ZnAl	Ligne de revêtement zinc/aluminium
Tin plate	Tôles étamées
Ptg	Ligne de revêtement couleur
ERW	Unité de fabrication de tubes soudés à résistance électrique
Rolling	Laminoir non précisé

Les chiffres des capacités correspondent à des capacités nominales ou théoriques. Sauf indication contraire, ces chiffres sont exprimés en milliers de tonnes par an.

Les chiffres indiqués pour la « capacité existante » et les « équipements actuels » correspondent aux estimations établies fin décembre 2002.

Les chiffres sur les capacités indiqués dans le présent rapport ont été estimés sur la base les informations disponibles les plus fiables. Toutefois, les sources d'informations étant limitées, bon nombre des chiffres cités correspondent aux capacités nominales ou théoriques. Dans certains cas cependant, les chiffres sur les capacités nominales ont été modifiés au vu des chiffres de la production effective ou des objectifs des projets de modernisation.

La colonne « origine des capitaux » distingue les entreprises ou projets d'État (S) des entreprises ou projets du secteur privé (P).

L'origine des informations est précisée dans la colonne « sources ». Les chiffres indiqués sur les capacités ne sont pas nécessairement identiques aux estimations tirées de ces sources. Les abréviations utilisées dans la colonne « sources » sont les suivantes :

AKM	Agence d' information AK&M, Russie
AMM	American Metal Market
AP	The Associated Press News Report
ATN	Asia Times News
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ET	The Economic Times (publié en Inde, sur Internet)
FE	The Financial Express (publié en Inde, sur Internet)
FT	Financial Times
Hindu	The Hindu (publié en Inde, sur Internet)
HP	Site Internet de l'entreprise
IBS	Instituto Brasileiro de Siderurgia (Institut sidérurgique du Brésil)
IF	Interfax Information Services
IHT	International Herald Tribune
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KR	Korea Report (publié en Corée, sur Internet)
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MB	Metal Bulletin
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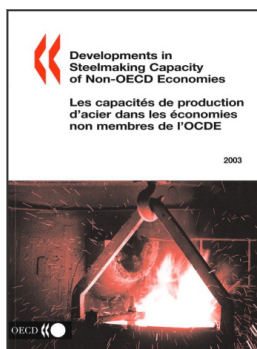
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