

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 |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|

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 |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|

Unit: thousand tonnes per year

Country: **RUSSIA**

Beloretsk Iron and Steel Works

| | | | | | | | | |
|--|--------------------------|-----|--|--|------------|--|--|------------------------------|
| | Beloretsk, Bashkortostan | 300 | | | (Possible) | | | MB 06-Nov-03 MB 03-Oct-03 |
|--|--------------------------|-----|--|--|------------|--|--|------------------------------|

(300) BF x 2
(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 |
|--|-------------|-----|-------------------|--|------------|--|--|----------------------|

(430) OH x 4
(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

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

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 | | | | | | P | |
| | (1000) | HBI (HYL) | | | | | |

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

Unit: thousand tonnes per year

Lysva Metallurgical Plant(LMZ)

Pern, western Urals

EGL
(120) HGL

| 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 | Unit: thousand tonnes per year | |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|--------------------------------|---------------|
| | | | | | | | Start-up date | Source |
| Country: | RUSSIA | | | | | | | |

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 | | | | | | | | |
| <u>Mechel</u> | 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 |
|------------------------|---------------------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
| Country: RUSSIA | | | | | | | | |
| | <u>Mill-5000 project</u> | | | | (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 | Plant/project | Existing capacity | Existing equipment | Increase in capacity | Additional equipment | Ownership | Start-up date | Source |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|

Unit: thousand tonnes per year

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 CombineNovotroitsk, 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 |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|

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 |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|

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 |
|--------------------------|------|--|--|------|------------|---|------|------------------------------|

| | | | |
|--------|--------|--------|-------------|
| (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 |
|-----------------------------------|---|

| | |
|-------|------|
| (7) | EF |
| (150) | STR |
| (178) | STR |
| (144) | STR |
| (350) | SMLS |

Satka Metallurgical Plant

Satka, Chelyabinsk Region

| | |
|-------|--------|
| (300) | BF x 2 |
|-------|--------|

| 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 | Unit: thousand tonnes per year | | |
|--|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|--------------------------------|---------------|--|
| | | | | | | | 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 |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|

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 | Plant/project | Existing capacity | Existing equipment | Increase in capacity | Additional equipment | Ownership | Start-up date | Source |
|---|-------------------------------|--------------------------|-----------------------------|-----------------------------|-----------------------------|------------------|----------------------|------------------------------|
| 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 | Plant/project | Existing capacity | Existing equipment | Increase in capacity | Additional equipment | Ownership | 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) | | | |
| | | (156) | STR | (400) | EF | | | |
| | | | | (400) | CC (billet) | | | |

Unit: thousand tonnes per year

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

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 |
|-------------------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
| Country: UKRAINE | | | | | | | | |

Unit: thousand tonnes per year

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 | | | | | | | |
| <i>Krivoy Rog Iron and Steel Works</i> | | | | | | | |
| 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 |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|

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 |
|--|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|---------------------------------------|----------------------|---------------------|
| Country: UKRAINE | | | | | | | | |
| <u>Yenakiyev Iron and Steel Works</u> | | | | | | | | |
| | Yenakiyevsky | 3000 | | (Unlikely) | | | | ISWW MB20-Aug-02 |
| | | (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. | | | | | | | | |
| <u>Zaporozhye Steel Works(Zaporozhstal)</u> | | | | | | | | |
| | Zaporozhye | 3920 | (stainless steel) | | | | | S |
| | | (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 |
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|
|----------------|----------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------|----------------------|---------------|

Unit: thousand tonnes per year

Country: **OTHERS**

LATVIA

Liepajas Rupnica Sarkanais Metallurģs (Red Metal Worker Works)

| | | | | | | | | |
|---------|-----|--|------------|--|--|---|--|--------------|
| Liepaja | 445 | | (Unlikely) | | | P | | MB 01-Mar-04 |
|---------|-----|--|------------|--|--|---|--|--------------|

| | | | |
|-------|---------------------------|-------|---------|
| (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 |
|----------|------|--|------------|--|--|--|------|------------------------------|

| | | | |
|--------|----------------------------|-------|-------------|
| (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) | | | MB 26-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 | MB 20-Feb-03 MB 08-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

TABLE DES MATIERES

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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 |
| Bday | Business Day (publié en Thaïlande) |
| BMM | BBC Monitoring Middle East |
| BNA | Business News Americas |
| BS | Business Standard (publié en Inde, sur Internet) |
| Bpost | Bangkok Post (publié en Thaïlande) |
| CD | China Daily |
| CEO | Central Europe Online |
| CI | China Insight |
| CMN | China Metallurgical Newsletter |
| CNN | Cable News Network |
| CSI | Chinese Steel Industry (publié par East & West Trade News Agency au Japon) |
| CT | The Culcutta Telegraph (publié en Inde, sur Internet) |
| Danieli | Danieli PR |
| DJ | Dow Jones Newswires |
| 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 |
| ILAFA | Latin American Iron and Steel Institute (Institut latino-américain du fer et de l'acier) |
| ISWW | Iron and Steel Works of the World (publié par Metal Bulletin Books) |
| IT | The India Times (publié en Inde, sur Internet) |
| Karmet | Page d'accueil Internet d'Ispat Karmet JSC |
| KH | The Korea Herald (publié en Corée, sur Internet) |
| KR | Korea Report (publié en Corée, sur Internet) |
| ManiB | Manila Bulletin (publié aux Philippines, sur Internet) |
| MB | Metal Bulletin |
| MBM | Metal Bulletin Monthly |

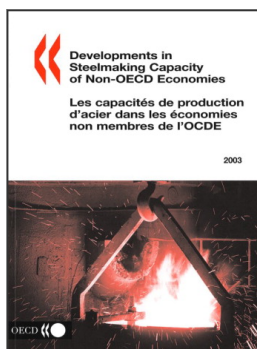
| | |
|--------|---|
| ME | ME Steel (sur Internet) |
| MJ | Mining Journal |
| MPTI | Metallurgical Plant and Technology International |
| NES | New Steel |
| Net | Information obtenue sur Internet |
| NK | Nihon Keizai Shimbun (publié au Japon) |
| nks | Nikkan Kogyo Shimbun (publié au Japon) |
| NW | Nikkei Weekly (publié au Japon) |
| PD | People's Daily in China (publié en Chine, sur Internet) |
| Reu | Reuters Ltd. (sur Internet) |
| SA | Steel Alert |
| SEAISI | South East Asia Iron and Steel Institute Newsletter |
| SI | Silicon India (sur Internet) |
| SN | Steel News |
| SS | Sangyo Shimbun (publié au Japon) |
| ST | Steel Times |
| Star | The Star Malaysia (publié en Malaisie, sur Internet) |
| SW | Steelworld |
| TK | Tekkokai (publié par la Japan Iron and Steel Federation au Japon) |
| TS | Tekko Shimbun (publié au Japon) |
| VIR | Vietnam Investment Review (publié au Vietnam, sur Internet) |
| Vizag | Page d'accueil de Vizag |
| WSJ | Wall Street Journal |
| XNA | Xinhua News Agency (publié en Chine, sur Internet) |

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