



2013 Minerals Yearbook

ITALY

THE MINERAL INDUSTRY OF ITALY

By Alberto Alexander Perez

In 2013, Italy's nominal gross domestic product (GDP) was \$2.071 trillion, which was a decrease of 1.9% compared with that of 2012. Italy ranked fourth in the European Union (EU), in terms of GDP, after Germany, the United Kingdom, and France. Italy was the 11th-ranked crude steel producer and the 14th-ranked manufacturer of cement in the world, as measured by tonnage of production (World Steel Association, 2014, p. 9).

Italy had ceased mining for metals, and the raw materials necessary for its metal-refining industry were imported or obtained from secondary scrap recovery. Italy still had a very active industrial minerals sector, producing principally cement, clays, gypsum, lime, limestone, marble, salt, sand and gravel, silica sand, and talc. In terms of energy, Italy produced natural gas and also crude oil and petroleum refinery products; however, Italy was not self-sufficient, and it relied on energy imports to satisfy its domestic energy consumption. Italy, similar to other highly industrialized countries, was undergoing a shift towards a more services-based economy. In 2013, industry accounted for only 24.4% of the GDP, and services accounted for 73.5% (tables 1 and 2; Cembureau, 2014a, p. 12; 2014b, p. 7; U.S. Central Intelligence Agency, 2014; World Bank, The, 2014; World Steel Association, 2014, p. 8).

Minerals in the National Economy

Italy's mineral industry produced such metals as copper, iron and steel, lead, and zinc, all of which were important materials for the country's manufacturing sector. In 2013, production in the construction sector decreased by 10.3% following a decrease of 13.7% in 2012. In 2013, production in the industrial sector decreased by 3.1% following a decrease of 6.4% in 2012. These decreases were the result of the deteriorating economic conditions in Italy during the continuing world economic slowdown that began in 2008. The decreases in production affected the mineral industry in Italy and weakened demand, particularly for industrial mineral products (table 1).

The metal-processing industries and particularly steel production were significant contributors to Italy's economy. Italy was highly dependent on imported mineral fuels. Eni S.p.A. (Eni), which was 30% owned by the Italian Government, was the country's leading petroleum and natural gas company (table 2).

Government Policies and Programs

The Government played a significant role in the economy through regulation of ownership of large financial and industrial companies; privatization and regulatory reform in accordance with EU directives, however, had reduced that role in recent years. Italy's basic mining legislation is mining law No. 1443 of July 29, 1927, which gives subsoil ownership of minerals to the state. The reimbursement to the state by mining concessionaires

is regulated by law No. 752 of June 10, 1982. Quarrying operations are regulated by law No. 44 of September 1982.

All petroleum and gas upstream activities are supervised by the Ufficio Nazionale Minerario per gli Idrocarburi e la Geotermia [National Office for Mining, Hydrocarbons, and Geothermal Resources] (UNMIG), which operates within the Ministero dello Sviluppo Economico [Ministry of Economic Development]. After various organizational changes, the eight divisions that compose UNMIG now all operate within the Directorate General for Energy and Mineral Resources. By presidential decree, in 2007, the Committee for Hydrocarbons and Mineral Resources (CIRM) was set up to carry out the duties of the UNMIG. The committee performs technical advisory tasks related to mining, hydrocarbon production, and mineral royalties (Ministero dello Sviluppo Economico, 2010).

Production

In 2013, asphalt and bituminous rock production decreased by 45% to 1.15 million metric tons (Mt) from 2.1 Mt in 2012. Lime, refined copper, and granite production decreased by 37%, 34%, and 33% respectively. There were also decreases in the production of dolomite, by 30%; bentonite, 28%; pig iron, 26%; cement, 17%; and crude steel, 11.6%. The production of lead increased by 30%; gypsum, by 17%; zinc metal, by 14%; and common clay, by 11.5% (table 1).

Structure of the Mineral Industry

The Italian Government had ultimate control of Italy's mineral industry. Mineral resources, by law, are the property of the state, but private and mixed public and private entities were the principal owners of Italy's mineral industry. Companies with significant operations in Italy were Glencore Xstrata plc of Switzerland, which had a lead refinery at San Gavino; IMI FABI S.p.A., which had a talc mine at Orani; Italcementi S.p.A., which had major cement plants in Calusco, Collefero, and Monselice; Lucchini S.p.A., which produced pig iron at its plant in Trieste; the Riva Group, which had several steelmaking plants (of which the most significant was located in Taranto); and the petroleum and hydrocarbons Company ENI S.p.A., which had oilfields offshore Sicily and in the Adriatic Sea and onshore in the Po River Valley (table 2).

Mineral Trade

Within the EU, Italy received 10.3% of all imports of mineral fuels, lubricants, and related materials from and supplied 12.4% of all exports to countries outside the EU. Italy also accounted for 11.4% of imports and 6.6% of exports of raw materials from the EU. Italy traded mostly with its EU partners, as 70.1% of all Italy's exports went to EU members and 66.3% of its

imports came from EU members. In 2013, the United States imported \$38.7 billion and exported \$16.8 billion worth of goods and services to Italy, principally chemicals, machinery, miscellaneous manufactured goods, petroleum and coal products, and transportation equipment (European Commission, 2014a–e; U.S. Census Bureau, 2014).

Commodity Review

Metals

Aluminum and Bauxite and Alumina.—Italy did not produce alumina in 2013. United Company RUSAL (RUSAL) of Russia continued its suspension of operations at its Eurallumina facility in Italy owing to the high cost of running the facility (particularly the cost of electricity), and no production was reported from the plant since 2009 (table 1; United Company RUSAL, 2014, p. 5).

Copper.—The main copper producers in Italy were KME Group S.p.A., which had operations at Fornaci di Barga and at Scrivia under its subsidiary KME Italy S.p.A., and Simar S.p.A. (Simar) (a member of the Cordofin Group S.p.A.), which had a refinery at Porto Marghera, near Venice. Simar produced mainly copper-zinc-titanium alloys (KME Group S.p.A., 2010, p. 4; Simar S.p.A., 2010). For its copper production, Italy imported small amounts of copper concentrate and relied mainly on imports of copper metal and on scrap recovery.

Iron and Steel.—On September 12, the steel company Riva Acciaio S.p.A. (Riva) announced that all activities had ceased at its plants in Annone Brianza (Province of Lecco); Cerveno, Malegno, and Sellero (Brescia); Lesegno (Cuneo); and Verona and Caronno Pertusella (Varese). Ilva S.p.A. (another steel producer owned by the Riva Group) was not affected by this decision. On September 30, however, Riva announced that production would resume at all its plants. Riva said that the closures became necessary owing to a judge's decision to seize the assets of the owners of the company. The company indicated that this order did not allow for economic operating conditions or for the continuation of normal activity by the company (SteelOrbis.com, 2013a, b).

Lead and Zinc.—Glencore Xstrata remained the country's principal processor of lead and zinc (table 2). The company operated a plant (smelter and refinery) at Porto Vesme, Sardinia.

Industrial Minerals

In 2013, Italy remained a leading European producer and a significant world producer of such industrial minerals as feldspar (22% of world output), pumice (18%), gypsum (2%), lime (2%), and bentonite (1% each) (Corathers, 2015; Crangle, 2015a, b; Tanner, 2015; Virta, 2015).

Cement.—Italy's cement consumption decreased by 15.1% owing to a generalized decrease in construction activity, which was driven by the continued contraction of the economy in 2013. Reductions in the civil engineering works sector and nonresidential construction sector, were the most significant, although a reduction in the residential construction sector was quite significant as well (Cembureau, 2014a, p. 17; 2014b, p. 11).

Outlook

Italy's manufacturing industries remain those most affected by the decrease in domestic demand. The construction sector continues to be affected by low investment. Italy is one of the largest EU members in terms of population and the size of its industrial sector; however, the economic recession continues to affect its mineral and industrial production sectors. Italy will likely continue to rely on imported and recycled primary mineral materials for its industrial sector. The country is also likely to continue to rely on major imports of mineral fuels despite potential increases in domestic mineral fuels production from new deposits coming onstream in the near term. Economic reforms and austerity programs may continue to curtail increases in domestic consumption.

References Cited

- Cembureau, 2014a, Activity report 2013: Brussels, Belgium, Cembureau, 42 p.
- Cembureau, 2014b, Quarterly economic report 2014—2nd quarter: Brussels, Belgium, Cembureau, September, 18 p.
- Corathers, L.A., 2015, Lime: U.S. Geological Survey Mineral Commodity Summaries 2015, p. 92–93.
- Crangle, R.D., Jr., 2015a, Gypsum: U.S. Geological Survey Mineral Commodity Summaries 2015, p. 70–71.
- Crangle, R.D., Jr., 2015b, Pumice and pumicite: U.S. Geological Survey Mineral Commodity Summaries 2015, p. 124–125.
- European Commission, 2014a, Extra-EU28 trade of mineral fuels, lubricants, and related materials, by member state—Exports: European Commission. (Accessed August 5, 2014, at <http://epp.eurostat.ec.europa.eu/tgm/refreshTableAction.do?tab=table&plugin=1&pcode=tet00056&language=en>.)
- European Commission, 2014b, Extra-EU28 trade of mineral fuels, lubricants, and related materials, by member state—Imports: European Commission. (Accessed August 5, 2014, at <http://epp.eurostat.ec.europa.eu/tgm/refreshTableAction.do?tab=table&plugin=1&pcode=tet00056&language=en>.)
- European Commission, 2014c, Extra-EU28 trade of raw material, by member state—Exports: European Commission. (Accessed August 5, 2014, at <http://epp.eurostat.ec.europa.eu/tgm/refreshTableAction.do?tab=table&plugin=1&pcode=tet00064&language=en>.)
- European Commission, 2014d, Extra-EU28 trade of raw material, by member state—Imports: European Commission. (Accessed August 5, 2014, at <http://epp.eurostat.ec.europa.eu/tgm/refreshTableAction.do?tab=table&plugin=1&pcode=tet00064&language=en>.)
- European Commission, 2014e, Share of trade with the EU28—Imports: European Commission. (Accessed December 10, 2014, at <http://epp.eurostat.ec.europa.eu/tgm/printTable.do?tab=table&plugin=1&language=en&pcode=tet00036&printPreview=true#>.)
- KME Group S.p.A., 2010, Annual report 2009—Group profile: Florence, Italy, KME Group S.p.A., 222 p.
- Ministero dello Sviluppo Economico, 2010, Decreto del Presidente della Repubblica 14 Maggio 2007, n. 78: Ministero dello Sviluppo Economico. (Accessed November 5, 2010, at <http://unmig.sviluppoeconomico.gov.it/unmig/norme/78dpr07.htm>.)
- Simar S.p.A., 2010, Company profile: Simar S.p.A. (Accessed December 10, 2014, at <http://www.simarzinco.com/company.htm>.)
- SteelOrbis.com, 2013a, Italy's Riva Acciaio resumes operations at steelmaking plants: SteelOrbis.com. (Accessed December 16, 2014, at <http://www.steelorbis.com/steel-news/latest-news/italys-riva-acciaio-resumes-operations-at-steelmaking-plants-786555.htm>.)
- SteelOrbis.com, 2013b, Italy's Riva steel announces cessation of all activities excluding Ilva: SteelOrbis.com. (Accessed December 16, 2014, at <http://www.steelorbis.com/steel-news/latest-news/italys-riva-steel-announces-cessation-of-all-activities-excluding-ilva-783146.htm>.)
- Tanner, A.O., 2015, Feldspar: U.S. Geological Survey Mineral Commodity Summaries 2015, p. 54–55.
- United Company RUSAL, 2014, Annual report 2013: Moscow, Russia, United Company RUSAL, April 13, 250 p. (Accessed December 12, 2014, at <http://www.rusal.ru/upload/uf/eed/EWF%20101.pdf>.)

U.S. Central Intelligence Agency, 2014, Italy, *in* The world factbook:
 U.S. Central Intelligence Agency. (Accessed January 5, 2014, at
<https://www.cia.gov/library/publications/the-world-factbook/geos/it.html>.)
 U.S. Census Bureau, 2014, Trade in goods with Italy: U.S. Census Bureau.
 (Accessed August 5, 2014, at <https://www.census.gov/foreign-trade/balance/c4759.html#2013>.)

Virta, R.L., 2015, Clays: U.S. Geological Survey Mineral Commodity
 Summaries 2015, p. 44–45.
 World Bank, The, 2014, Data—Italy: The World Bank. (Accessed
 November 7, 2014, at http://data.worldbank.org/country/italy#cp_wdi.)
 World Steel Association, 2014, World steel in figures: Brussels, Belgium, World
 Steel Association, 30 p.

TABLE 1
 ITALY: PRODUCTION OF MINERAL COMMODITIES¹

(Metric tons unless otherwise specified)

| Commodity | 2009 | 2010 | 2011 | 2012 | 2013 |
|---|---------|------------------|------------------|--------------------|-----------|
| METALS | | | | | |
| Aluminum: | | | | | |
| Alumina, calcined basis | 752,873 | -- | -- | -- | -- |
| Metal: | | | | | |
| Primary | 170,600 | 168,000 | 141,000 | 110,000 | -- |
| Secondary ² | 826,977 | 1,246,236 | 1,049,101 | 1,002,814 | 1,061,603 |
| Total | 997,577 | 1,414,236 | 1,190,101 | 1,112,814 | 1,061,603 |
| Bismuth, metal ^c | 5 | 5 | 5 | 5 | 5 |
| Copper, metal, refined, all kinds ^c | 6,500 | 1,800 | 7,600 | 7,700 | 4,900 |
| Iron and steel, metal: | | | | | |
| Pig iron | 5,692 | 8,555 | 9,838 | 9,424 | 6,935 |
| Ferroalloys, electric furnace: | | | | | |
| Ferromanganese | 5,500 | 17,000 | 18,000 | 18,000 | 18,000 |
| Ferrosilicon ^c | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| Silicomanganese | 17,000 | 22,900 | 24,600 | 24,600 | 24,600 |
| Other ^c | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 |
| Total | 42,500 | 59,900 | 62,600 | 62,600 | 62,600 |
| Steel, crude | 19,848 | 25,750 | 28,735 | 27,257 | 24,058 |
| Lead: | | | | | |
| Mine output, Pb content ^c | 800 | 800 | 800 | -- | -- |
| Metal, refined: | | | | | |
| Primary | 17,000 | -- | -- | -- | 30,000 |
| Secondary | 132,000 | 150,000 | 149,500 | 138,400 | 150,000 |
| Total | 149,000 | 150,000 | 149,500 | 138,400 | 180,000 |
| Zinc, metal, primary | 103,400 | 104,700 | 110,200 | 97,200 | 111,000 |
| INDUSTRIAL MINERALS | | | | | |
| Barite ^c | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 |
| Bromine ^c | 300 | 300 | 300 | -- | -- |
| Cement, hydraulic | 36,317 | 34,408 | 33,120 | 26,200 | 22,000 |
| Clays, crude: | | | | | |
| Ball clay | 1,070 | 612 | 638 | 746 | 696 |
| Bentonite | 146 | 111 | 102 | 144 | 103 |
| Common clay | 6,324 | 5,900 | 4,750 | 3,777 | 4,212 |
| Fuller's earth ^c | 3 | 3 | 3 | 3 | 3 |
| Kaolin ^c | 5 | 6 | 8 | 8 | 8 |
| Refractory, excluding kaolinitic earth | 844 | 844 ^e | 844 ^e | 878 | 870 |
| Diatomite ^c | 25,000 | 25,000 | 25,000 | 25,000 | 25,000 |
| Feldspar ^c | 4,700 | 4,700 | 4,700 | 4,700 | 4,700 |
| Gypsum | 5,101 | 4,441 | 5,939 | 2,563 | 2,994 |
| Lime, hydrated, hydraulic, and quicklime ^c | 6,000 | 5,800 | 5,800 | 5,800 | 3,640 |
| Magnesia ^c | 100 | 100 | 100 | 100 | 100 |
| Nitrogen, N content of ammonia ^c | 460 | 460 | 460 | 2,365 ³ | 1,900 |

See footnotes at end of table.

TABLE 1—Continued
 ITALY: PRODUCTION OF MINERAL COMMODITIES¹

(Metric tons unless otherwise specified)

| Commodity | 2009 | 2010 | 2011 | 2012 | 2013 | |
|--|----------------------------|--------------------|--------------------|----------------------|----------------------|----------------------|
| INDUSTRIAL MINERALS—Continued | | | | | | |
| Perlite ^e | 60,000 | 60,000 | 60,000 | 60,000 | 60,000 | |
| Pigments, mineral, iron oxides, natural | 105 | 117 | 112 ^e | 118 ^e | 137 ^e | |
| Pumice and related materials: ^e | | | | | | |
| Pumice | thousand metric tons | 30 | 30 | 30 | 28 | |
| Pozzolan | do. | 4,000 | 4,000 | 4,000 | 4,000 | |
| Salt | do. | 3,471 | 4,006 | 2,912 | 3,098 | 2,879 |
| Sand and gravel | do. | 164,218 | 150,996 | 164,844 | 123,049 | 102,381 |
| Silica sand | do. | 19,759 | 17,656 | 16,369 | 13,946 | 13,870 |
| Sodium compound, n.e.s.: ^{e,4} | | | | | | |
| Soda ash | do. | 500 | 500 | 500 | 500 | 500 |
| Sodium sulfate | do. | 125 | 125 | 125 | 125 | 125 |
| Stone: | | | | | | |
| Calcareous: | | | | | | |
| Alabaster | do. | 7,000 ^e | 7,000 ^e | 7,000 ^e | 7,000 ^e | 2,912 |
| Chalk ^e | do. | 228 | 200 | 200 | 200 | 790 |
| Dolomite | do. | 1,601 | 1,572 | 1,139 | 1,069 | 751 |
| Limestone for lime and cement | do. | 41,090 | 38,440 | 37,269 | 28,524 | 24,706 |
| Marble and travertine, crude | do. | 4,604 | 5,500 | 3,516 | 3,348 | 2,819 |
| Crushed and broken ⁵ | do. | 84,718 | 80,336 | 76,793 | 74,169 | 63,782 |
| Granite | do. | 1,009 | 1,614 | 1,585 | 1,734 | 1,160 |
| Sandstone | do. | 451 | 497 | 440 | 281 | 270 |
| Slate | do. | 52 | 55 | 61 | 44 | 43 |
| Sulfur: ^e | | | | | | |
| From metallurgy | do. | 90 | 90 | 90 | 90 | 90 |
| From hydrocarbons | do. | 650 | 650 | 650 | 650 | 650 |
| Talc and related materials | | 112,000 | 110,000 | 110,000 | 110,000 | 110,000 |
| MINERAL FUELS AND RELATED MATERIALS | | | | | | |
| Asphalt and bituminous rock, natural | thousand metric tons | 1,030 | 1,454 | 2,169 | 2,100 ^e | 1,158 |
| Coke, metallurgical ^e | do. | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 |
| Gas, natural | million cubic meters | 8,127 | 8,296 | 8,438 | 8,608 ^r | 8,600 ^e |
| Natural gas liquids | thousand 42-gallon barrels | -- ^r | -- ^r | -- ^r | -- ^r | -- |
| Petroleum: | | | | | | |
| Crude | do. | 30,215 | 35,040 | 36,201 | 36,865 | 37,157 |
| Refinery products | do. | 665,541 | 688,646 | 653,533 ^r | 617,543 ^r | 617,000 ^e |

^eEstimated; estimated data are rounded to no more than three significant digits; may not add to totals shown. ^rRevised. do. Ditto. -- Zero.

¹Table includes data available through November 10, 2014.

²Unwrought aluminum alloys in secondary form.

³Reported figure.

⁴Not elsewhere specified.

⁵Includes output of limestone and serpentine for dimension stone.

TABLE 2
ITALY: STRUCTURE OF THE MINERAL INDUSTRY IN 2013

(Thousand metric tons unless otherwise specified)

| Commodity | Major operating companies and major equity owners | Location of main facilities | Annual capacity |
|--------------------------------|---|---|--------------------|
| Aluminum | Alcoa Inc. | Smelter at Fusina | 44 |
| Barite | Bariosarda S.p.A. (Ente Mineraria Sarda) | Barega and Mont Ega Mines on Sardinia | 100 |
| Do. | Edem S.p.A. (Government) | Mines at Val di Castello, Lucca | 20 |
| Do. | Edemsarda S.p.A. (Soc. Imprese Industriali) | Mines at Su Benatzu, Stefano, and Peppixeddu, Sardinia | 20 |
| Do. | Società Mineraria Baritina S.p.A. | Mines at Marigolek, Monte Elto, and Primaluna, near Milan | 20 |
| Bauxite | Sardabauxiti S.p.A. (Cogein S.p.A., 40%; Comtec S.p.A., 40%; Icofin Co., 20%) | Mine at Olmedo, Sardinia | 350 |
| Cement | 11 companies, of which the largest are as follows: | Locations: | |
| Do. | Italcementi S.p.A. (Italcementi Group) | 18 plants, of which the largest are Calusco, Monselice, and Collefero | 15,000 |
| Do. | Buzzi Unicem Group | 11 plants, of which Guidonia, Lugagnano, Morano, Piacenza, S'Arcangelo di Romagna, and Settimello are the largest | 9,000 |
| Do. | Cementerie del Tirreno S.p.A. | 6 plants at Arquasta Scivia, Livorno, Maddaloni, Napoli, Spoleto, and Taranto | 5,300 |
| Clay, bentonite | Industria Chimica Carlo Laviosa S.p.A. | Mines and plant on Sardinia and a plant near Pisa | 250 |
| Copper: | | | |
| Refined | Simar S.p.A. (Cordifin S.p.A.) | Refinery at Porto Marghera | 60 |
| Refined, secondary | KME Italy S.A. (KME Group S.p.A.) | Refinery at Fornaci di Barga and Scrivia | 24 |
| Do. | Sitindustrie S.p.A. | Refinery at Pieve Vergonte | 22 |
| Feldspar | At least 5 companies, of which the largest are as follows: | Locations: | 1,500 |
| Do. | Maffei S.p.A. | Surface mines at Pinzolo and Campiglia | (200) |
| Do. | do. | Underground mine at Vipiteno | (300) |
| Do. | Miniera di Fragne S.p.A. | Surface mine at Alagna Valsesia | (60) |
| Do. | Sabbie Silicee Fossanova S.P.A. | Surface mine at Fossanova | (30) |
| Gypsum | Fassa S.r.l. | Plant at Moncalvo, Asti | 90 |
| Iron and steel: | | | |
| Pig iron | Altiforni e Ferriere di Servola S.p. A. (Lucchini S.p.A.) | Pig iron and coke plant at Trieste | 5,000 |
| Steel, crude | Four companies: Ilva S.p.A. (Riva Group) Riva Acciaio S.p.A. (Riva Group) Luccini S.p.A. (OAO Sverstal) Acciaierie e Ferriere Vicentine Beltrame S.p.A. (AFV-Beltrame S.p.A.) | Of which: 5 steel plants, the largest of which is Taranto (1,500) 7 steel plants Steel plant in Piombino Steel plant at Vicenza | 25,000 |
| Lead, metal | Glencore Xstrata plc | Refinery at San Gavino, Sardinia | 100 |
| Do. | do. | Kivcet smelter and Imperial smelter at Porto Vesme, Sardinia | 80 |
| Lime | Unicale S.p.A. | Plants in Lombardy region | 500 |
| Magnesium, metal | Società Italiana Magnesio S.p.A. | Plant at Bolzano | 8 |
| Marble | A number of companies, of which the largest include: | Locations: | 2,000 |
| Do. | Mineraria Marittima Srl | Quarries in the Carrara and Massa areas | (500) |
| Do. | Industria dei Marmi Vicentini S.p.A. | do. | (300) |
| Do. | Figaia S.p.A. | do. | (100) |
| Nitrogen, N content of ammonia | Hydro Agri S.p.A. | Plant at Ferrara | 410 |

See footnotes at end of table.

TABLE 2—Continued
 ITALY: STRUCTURE OF THE MINERAL INDUSTRY IN 2013

(Thousand metric tons unless otherwise specified)

| Commodity | Major operating companies and major equity owners | Location of main facilities | Annual capacity |
|-----------------|--|--|--------------------|
| Petroleum: | | | |
| Crude | Eni S.p.A. | Oilfields offshore of Sicily, in the Adriatic Sea, and onshore in the Po River Valley | 90 |
| Refined | thousand 42-gallon barrels per day Various companies | About 14 refineries | 2,000 |
| Potash, ore | Industria Sali Otassici e Affini per Aziono S.p.A. | Underground mines at Corvillo, Pasquasia, and Racalmuto, Sicily | 1,300 |
| Do. | Sta. Italiana Sali Alcalini S.p.A. (Italkali) | Underground mines at Casteltermini and Pasquasia, Sicily | 700 |
| Pumice | Pumex S.p.A. | Quarries, Lipari Island, north of Sicily | 600 |
| Do. | Sta. Siciliana per l'Industria ed il Commercio della Pomice di Lipari S.p.A. (Italpomice S.p.A.) | do. | 200 |
| Pyrite | Nuova Solmine S.p.A. | Underground mines at Campiano and Niccioleta | 900 |
| Salt, rock | Sta Italiana Sali Alcalini S.p.A. (Italkali) | Underground mines at Petralia, Racalmuto, and Realmonte, Sicily | 4,000 |
| Do. | Solvay S.p.A. | Underground mines at Buriano, Pontteginori, and Querceto, Tuscany | 2,000 |
| Talc | Luzenac Val Chisone S.p.A. | Mines at Pinerolo, near Turin, and an open pit mine in Orani, Sardinia | 120 |
| Do. | IMI FABI S.p.A. | Mine at Orani, Sardinia | 20 |
| Zinc, metal | Glencore Xstrata plc | Plant at Porto Vesme, Sardinia | 120 |
| Do. | Pertulosa Sud S.p.A. | Plant at Crotona, Calabria | 100 |
| Do., do. Ditto. | | | |