

# Nyrstar Tennessee Mines

Resources for a changing world



## Operation at a glance

Nyrstar Tennessee Mines was officially formed in December 2009 when the operations at Middle Tennessee (MTN) and East Tennessee (ETN) were consolidated. The MTN operations consist of three underground zinc mines; Gordonsville, Elmwood and Cumberland and a processing plant, all located in Smith County, Tennessee. The ETN complex consists of a mill and three underground zinc mines; Young, Coy and Immel. The mines are located in and around Knox, Jefferson and Grainger counties.

## OVERVIEW

Nyrstar Tennessee Mines comprise the East Tennessee underground zinc mine complex and the Middle Tennessee underground zinc mine complex. In December 2009, Nyrstar acquired the East Tennessee zinc mine complex which comprises three separate mines (Young, Immel and Coy).

All three mines are located within approximately 20 miles of each other and approximately 250 miles of Nyrstar's Clarksville smelter and the Middle Tennessee zinc mine complex. Ore from the three mines is processed into zinc concentrate at the Young mine site. The East Tennessee zinc mine complex has a close association with Nyrstar's Clarksville smelter.

The Middle Tennessee zinc mine complex had been on care and maintenance since October 2008 and comprises three mines (Elmwood, Gordonsville and Cumberland). All three mines are located within approximately ten miles of each other within an approximately 20 square mile area of Smith County, Tennessee, approximately 50 miles east of Nashville.

A Draft JORC compliant resource statement was prepared for the 3 ETN mines and 3 MTN mines during 2010. In addition, Stonewall Mine located in MTN southeast of Elmwood Mine is currently flooded and is designated as a Pre resource until survey verification and geologic interpretation is completed. Similar to the East Tennessee zinc mine complex, the Middle Tennessee zinc mine complex has a history of close association with Nyrstar's Clarksville smelter, which was originally constructed to treat zinc concentrate from the mines. Ore mined at the three mines is processed into zinc concentrate at the Gordonsville zinc mine complex, which is located approximately 100 miles from Nyrstar's Clarksville smelter.

At full production, Nyrstar Tennessee Mines are expected to have production capacity of approximately 210,000 dry metric tonnes of zinc concentrate at a zinc grade of approximately 62% (which is equivalent to 130,000 tonnes of zinc in concentrate) providing more than 100% of the concentrate requirements for Nyrstar's Clarksville smelter.

## Fast facts...

### Location

– Tennessee, USA

### Technology

– underground zinc mines and mills

### Products

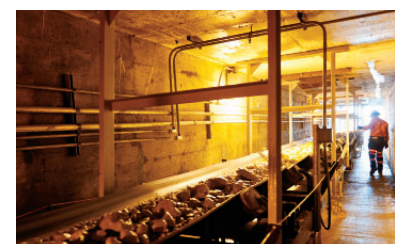
– zinc concentrate

### Employees

– 807

### Production 2010

– 63,000 tonnes of zinc in concentrate



## CONTACT INFORMATION

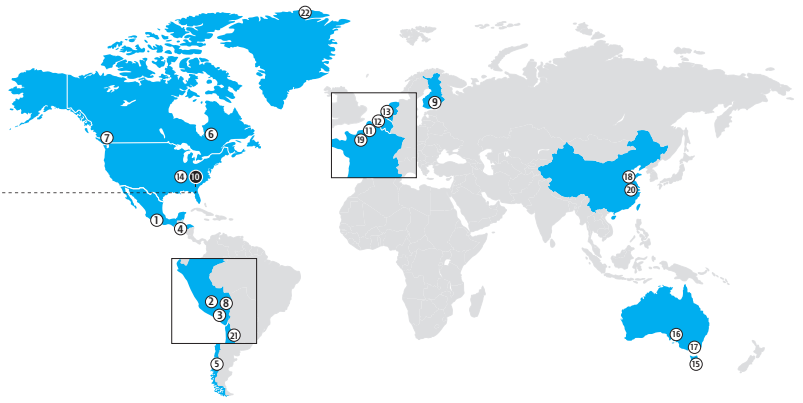
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# Nyrstar Tennessee Mines, and the world of Nyrstar

## Nyrstar Tennessee Mines, USA



- |                         |  |                                  |   |
|-------------------------|--|----------------------------------|---|
| ①  Campo Morado, Mexico | ⑦  Myra Falls, Canada                        | ⑬  Budel, The Netherlands        | ⑱  Fohl (Interest 50%), China                     |
| ②  Contonga, Peru       | ⑧  Pucarrajo, Peru                           | ⑭  Clarksville, USA              | ⑲  Galva 45 (Interest 66%), France                |
| ③  Coricancha, Peru     | ⑨  Talvivaara (Streaming Agreement), Finland | ⑮  Hobart, Australia             | ⑳  Genesis (Interest 50%), China                  |
| ④  El Mochito, Honduras | ⑩  Tennessee Mines, USA                      | ⑯  Port Pirie, Australia         | ㉑  Herencia (Interest 10.24%), Chile              |
| ⑤  El Toqui, Chile      | ⑪  Auby, France                              | ⑰  ARA (Interest 50%), Australia | ㉒  Ironbark Zinc Ltd. (Interest 26.5%), Greenland |
| ⑥  Langlois, Canada     | ⑫  Balen/Overpelt, Belgium                   |                                  |   |

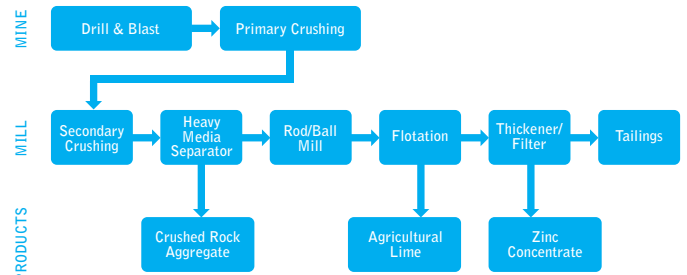
MINES/STREAMING AGREEMENTS    
 SMELTERS    
 OTHER OPERATIONS    
 DEVELOPMENT

## THE WORLD OF NYRSTAR

Nyrstar Tennessee Mines is part of Nyrstar, an integrated mining and metals business with market leading positions in zinc and lead, and growing positions in other base and precious metals; essential resources that are fuelling the rapid urbanisation and industrialisation of our changing world. Nyrstar has mining, smelting, and other operations located in Europe, Australia, China, Canada, the United States, Central and Latin America and employs over 6,600 people. Nyrstar is incorporated in Belgium and has its corporate office in Switzerland. Nyrstar is listed on NYSE Euronext Brussels under the symbol NYR.

Nyrstar is committed to providing a safe environment for our employees, minimising our smelters' and mines' impact on the environment and contributing to the communities in which we operate.

## PRODUCTION PROCESS AT NYRSTAR TENNESSEE MINES



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[nyrstar.com](http://nyrstar.com)