

Introduction to the steel industry

Florent Lefevre-Schlick

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McMaster University recognizes and acknowledges that it is located on the traditional territories of the Mississauga and Haudenosaunee nations, and within the lands protected by the “Dish with One Spoon” wampum agreement.



Agenda

- Introduction to the steel industry
 - History
 - Steel companies in Canada and Ontario
- Introduction to steel making
 - Primary steelmaking processes
 - Secondary steel products
- Jobs in the steel industry
 - Primary sector
 - Secondary sector

2011 The Development of the Iron and Steel Industry in Canada

Introduction to the steel industry

- History of steel making in Canada



11th century
Iron ore smelting
Newfoundland



Around 1820
Iron works
Ontario



1870 to 1900s
Foundries
Ontario



1900s to 1961
Steel mills
Ontario



1961 to now
Modern mills
Ontario

Introduction to the steel industry

- Steel sector in Canada



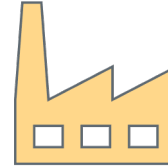
24,000



12 million tonnes



\$2.8 billion GDP



100+



50+

Introduction to the steel industry

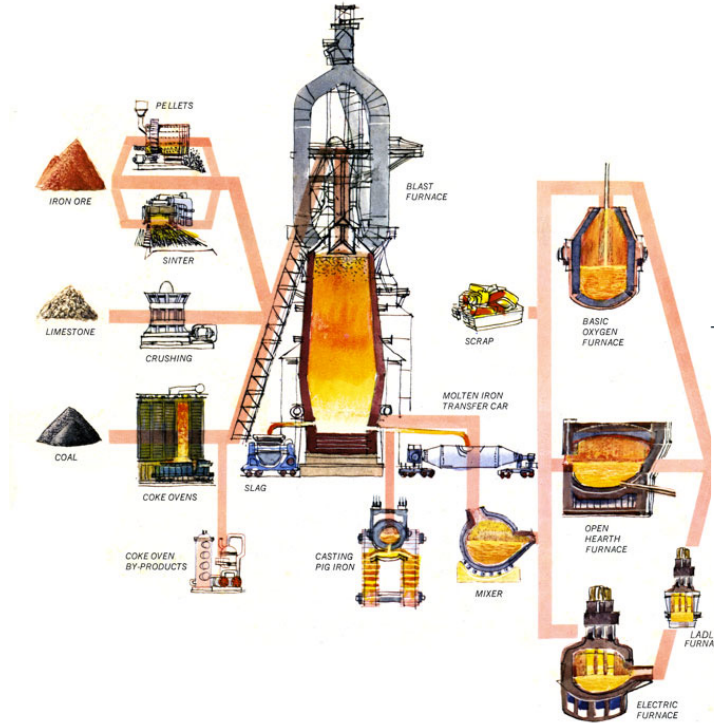
- Steel mills in Canada



Figure 5. Map of steel-producing plants in Canada (2010-2011)

Introduction to steel making – primary processes

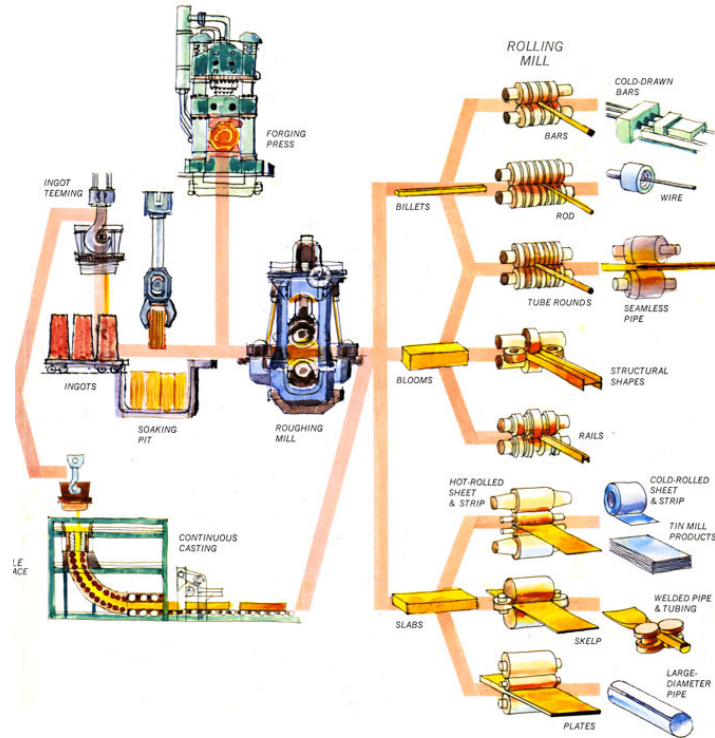
From raw materials



to liquid steels

Introduction to steel making – secondary processes

From liquid steel



to finished products
and manufacturers

Jobs in the steel industry

- Primary producers
 - A lot of on-the-job training
 - Steelmakers
 - Shop laborers
 - Material handlers
 - Quality
- Secondary processors
 - Machinists
 - Shop laborers
 - Material handlers



Pictures from the internet

Thank you!