Technology Sector; the Surveys, Mapping and Remote Sensing Sector; and the Geological Survey of Canada Sector.

### 10.9.1 Research and technology

**CANMET.** Since its inception in 1907, the Canada Centre for Mineral and Energy Technology (CANMET) has provided scientific and technological support to the Canadian mineral and energy industries through research and development (R&D) in industrial technology, health and safety, and environmental protection.

The CANMET program in mining R&D concentrates on mine design, mine automation and the environmental safety of mine workers. It includes research on rock mechanics, the development of mining methods and better and safer equipment, explosives testing, mining environments, the certification of equipment, fire and explosive hazards, tailings control, and assessment of uranium and coal reserves.

CANMET investigates the production, properties and performance of metallic and non-metallic materials and develops new processing and fabricating techniques to increase productivity, decrease pollution and energy consumption, and produce new advanced industrial materials such as metal and ceramic composites. CANMET research emphasizes the development and repair of structural materials for the resource and transportation industries including pulp and paper processing equipment, oil and gas pipelines, offshore structures, petrochemical plants, and steel for ships. In addition, R&D covers the production of new types of ceramics including refractories, sensors and toughened materials for high wear and fracture resistance.

The branch operates pilot scale facilities and special research instruments that are beyond the normal requirements of individual companies for day-to-day use but which are made available to companies on a cost-recovery basis. These special facilities include a rolling mill, an experimental foundry, a mineral processing plant, mobile coal preparation plants, special analytical equipment and the largest rock press in Canada.

**Sources**

10.1 Information Systems Division, Resource Strategy and Information Branch, Mineral Policy Sector, Energy, Mines and Resources Canada (EMR Canada); Industry Division, Statistics Canada.
10.2 Regional and Intergovernmental Affairs Division, Mineral Strategy Branch, Mineral Policy Sector, EMR Canada.
10.3 - 10.6 Mineral and Metal Commodities Branch, Mineral Policy Sector, EMR Canada; Industry Division, Statistics Canada.
10.7 Economic and Financial Policy Analysis Branch, Mineral Policy Sector, EMR Canada.
10.8 Ocean Mining Division, Resource Strategy and Information Branch, Mineral Policy Sector, EMR Canada. Regional and Intergovernmental Affairs Division, Mineral Strategy Branch, Mineral Policy Sector, EMR Canada.
10.9 Mineral and Energy Technology Sector, EMR Canada.

Co-ordinator, A.B. Siminowski, Information Systems Division, Resource Strategy and Information Branch, Mineral Policy Sector, EMR Canada.

## FOR FURTHER READING

**Selected publications from Statistics Canada**

- General Review of the Mineral Industries, Mines, Quarries and Oil Wells, annual. 26-201
- Canada's Mineral Production, Preliminary Estimates, annual. 26-202
- Metal Mines, annual. 26-223
- Non-metal Mines, annual. 26-224
- Quarries and Sand Pits, annual. 26-225

**More information about these publications is available from Statistics Canada. See Appendix F for a complete list of Statistics Canada offices.**