



Industry

The region's relatively small but diverse manufacturing sector (e.g., cement production, food processing, metal fabrication, chemical manufacturing, forest products, and petroleum refining), in addition to the construction industry, combine to contribute approximately 23% of the region's total greenhouse gas emissions.

In the Metro Vancouver region, industrial facilities generate greenhouse gas emissions from burning natural gas, propane and fuel oil to produce heat for industrial processes, using diesel fuel in non-road engines, and other smaller sources. Industrial chemical processes such as cement production also produce a significant amount of greenhouse gas emissions. Reducing emissions from the various industrial sectors will require targeted approaches that are appropriate to those sectors, such as encouraging or requiring a switch to low carbon fuels like renewable natural gas.

RESEARCH AND INNOVATION

Many proven technologies exist in the market today to dramatically reduce greenhouse gas emissions and help build more resilient ecosystems, infrastructure, and communities. However, climate change still poses difficult technical and economic challenges to achieving an 80% reduction in greenhouse gas emissions and protecting against climate change impacts like sea level rise and extreme weather events. These problems will require the development of new technologies and approaches. Actions to support research and innovation will be an important part of the *Climate 2050 Roadmaps*.

