

Table 13
Energy research and development expenditures and extramural payments made outside of Canada, 2011^P

	Total intramural research and development	Total extramural payments outside of Canada
millions of dollars		
Total energy	1,708	16
Fossil fuels	1,191	12
Crude oils and natural gas	553	2
Oil sands and heavy crude oil	577	x
Refining, processing and upgrading	53	x
Coal production, preparation and processing	x	0
Transportation of fossil fuels	x	x
Renewable energy resources	106	0
Solar	4	x
Wind-energy	4	x
Bio-energy	54	x
Hydro	35	x
Other renewable energy	9	x
Nuclear fission and fusion	68	x
Electric Power	91	x
Generation in utility sector	x	x
Combine heat and power in industry, buildings	x	x
Electricity transmission, distribution and storage	75	x
Hydrogen and fuel cells	35	x
Hydrogen	12	0
Fuel cells	23	x
Energy efficiency	85	1
Industry	47	x
Residential, institutional and commercial	11	x
Transportation of fossil fuels	13	x
Other energy efficiency	13	0
Other related technologies	132	1

Note(s): Data are from the Energy Research and Development expenditures by Area of Technology survey. Components may not add to totals due to rounding.