

**11.20 Capital expenditures in energy-related industries (million dollars)**

Item	1979	1980	1981	1982 <sup>1</sup>	1983 <sup>2</sup>
Industries related to petroleum and natural gas	5,215	7,772	10,295	10,565	9,898
Conventional crude oil and natural gas	3,641	5,324	5,904	5,643	6,293
Non-conventional crude oil	245	421	541	379	510
Refined petroleum and coal products	274	325	845	1,114	792
Natural gas processing plants	302	312	312	504	374
Transportation	229	602	1,746	2,021	871
Natural gas distribution	263	386	409	516	553
Marketing	134	205	264	270	364
Oil and gas drilling contractors	128	198	275	118	142
Electric power systems	6,364	6,109	7,319	8,562	9,258
Coal mines	214	299	576	1,083	1,109
Uranium	243	277	289	347	343
<b>Total</b>	<b>12,036</b>	<b>14,458</b>	<b>18,479</b>	<b>20,556</b>	<b>20,609</b>

<sup>1</sup>Preliminary actual expenditures.<sup>2</sup>Intentions.**11.21 Estimated federal energy R&D expenditures (million dollars)<sup>1</sup>**

Item	1981-82	1982-83	1983-84
Conservation	16	34	40
Fossil fuels <sup>2</sup>	12	22	28
Nuclear <sup>3</sup>	90	116	130
Renewable <sup>4</sup>	25	33	40
New liquid fuels <sup>5</sup>	25	38	41
Oil, gas, electricity <sup>6</sup>	10	30	51
Co-ordination	2	2	2
<b>Total</b>	<b>180</b>	<b>275</b>	<b>332</b>

<sup>1</sup>Exclusive of federal-provincial demonstration and research agreements, related scientific activities, and grants programs.<sup>2</sup>Includes oil sands, heavy oil, coal supply and combustion, and related environmental issues.<sup>3</sup>Includes nuclear fission and fusion, Atomic Energy of Canada expenditures 1981-84 are derived from MOSST Federal science expenditures and personnel, 1983-84 June 1983, Table 62. Growth largely reflects expansion of fusion, radioactive waste management and safety program.<sup>4</sup>Includes hydraulic, solar, biomass, wind, geothermal and peat energy sources.<sup>5</sup>Includes hydrogen, alcohols, and synthetic transportation fuels.<sup>6</sup>Includes conventional and frontier oil and gas, and electrical R&D.**Sources**

11.1 - 11.20 Energy and Minerals Section, Manufacturing and Primary Industries Division, Statistics Canada.

11.21 Energy Policy Co-ordination Branch, Department of Energy, Mines and Resources.