

**Aboriginal Construction
Requirements in Canada to
2010**

**Participation of Aboriginal Canada in the
Construction Industry**

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Canada
Total Construction Activity By Structure Type
(Millions of 1986 Constant Dollars)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total Construction	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Building Construction	53.16	53.17	52.32	52.53	53.83	54.67	55.07	54.51	53.86	53.59
Residential Building	31.41	34.51	33.92	33.78	34.21	34.24	33.91	33.57	33.42	33.73
Nonresidential Building	21.75	18.67	18.40	18.75	19.62	20.43	21.16	20.94	20.43	19.85
Industrial	2.64	1.86	1.79	2.18	2.71	3.19	3.44	3.55	3.54	3.51
Commercial	11.82	9.89	9.53	9.22	9.64	10.46	11.07	10.80	10.37	9.87
Institutional	4.56	4.72	4.78	5.03	4.94	4.39	4.17	4.10	4.04	4.05
Other	2.72	2.19	2.30	2.31	2.33	2.39	2.47	2.49	2.47	2.43
Engineering Construction	29.73	28.74	28.70	28.98	28.66	28.17	28.05	28.79	29.52	29.67
Roads and Heavy	10.47	10.29	11.01	11.71	11.48	10.22	9.80	9.68	9.49	9.36
Highway, Road, and Street	4.90	4.97	5.38	5.97	5.81	4.86	4.50	4.42	4.35	4.32
Water and Sewer	2.37	2.42	2.66	2.91	2.93	2.56	2.44	2.40	2.36	2.34
Marine Work	0.42	0.42	0.45	0.47	0.45	0.41	0.39	0.39	0.39	0.38
Dams and Irrigation	0.37	0.29	0.29	0.31	0.31	0.29	0.29	0.29	0.29	0.29
Railway and Telephone	2.40	2.19	2.23	2.05	1.97	2.10	2.17	2.18	2.10	2.03
Engineering	19.27	18.45	17.69	17.27	17.18	17.95	18.25	19.11	20.02	20.31
Electric Power	6.63	7.82	7.20	6.57	6.22	6.32	6.30	6.75	7.16	7.08
Gas and Oil	9.37	7.76	7.40	7.18	7.50	8.23	8.56	8.92	9.39	9.74
Other	3.27	2.87	3.08	3.51	3.46	3.40	3.40	3.44	3.48	3.48
Total New Construction	82.90	81.91	81.02	81.51	82.49	82.84	83.12	83.30	83.37	83.26
Total Repair Construction	17.10	18.09	18.98	18.49	17.51	17.16	16.88	16.70	16.63	16.74

Per cent of Total

Note: Based on Construction in Canada
Sources: Statistics Canada and Informetrica Limited

The Investment Outlook

	(billions of \$)			
	<u>91-95</u>	<u>96-00</u>	<u>01-05</u>	<u>06-10</u>
Investment	670	859	1,107	1,394
M&Eqpt	233	313	416	551
Construction	437	546	691	843
Residential	217	269	344	436
Business	154	201	255	297
Govt.	66	76	92	110

In the next ten years there will be \$2 trillion in total investment (new construction and machinery and equipment). In the next 15 years, there will be \$3.36 trillion of investment in Canada.

Of this 15-year amount, construction will account for \$2.1 trillion, with residential construction of \$1,049 billion and non-residential of \$1,031 billion.

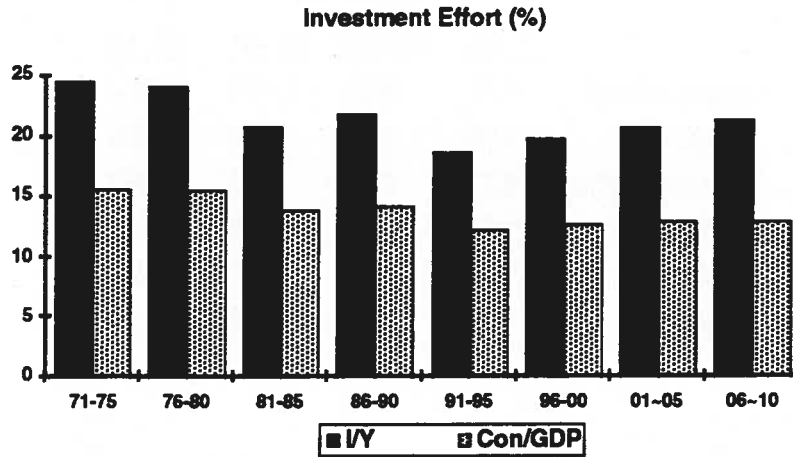
Construction activity per year by aboriginal firms is currently about \$1 billion per year. If we maintain current shares then this will double the number over the next fifteen years. This translates into \$25 billion over this period, or still about 1.2% of the total construction activity.

A target of 2% of the business would mean about \$40 billion over this period, or an annual level of business revenue of about \$2.7 billion.

Of course, no one is going to give this business to a particular group. The challenge will be to earn it, through the delivery of high-quality construction services.

Are the overall numbers too optimistic?

Adequacy of Investment?



The levels of investment in the forecast are not particularly high, relative to past shares of investment to GDP. Nor have we included a large number of major projects in the resource sector.

In other words, there is upside potential in these numbers.

Aboriginal Construction Firms

Number of Businesses - 3,300 'expected'
range of 3,025 to 3,580

<u>Location</u>	<u>Businesses</u>	<u>Population(adult)</u>
Atlantic	3.2%	3.8%
Quebec	6.1%	9.7%
Ontario	18.7%	19.1%
Prairies	39.3%	44.2%
B.C.	27.2%	16.9%
Yukon/NWT	5.7%	6.1%
On-Reserve	17.5%	26.3%
Off-Reserve	82.5%	73.7%

There are about 3,300 aboriginal construction firms in Canada, although no formal register. (This estimate is based on a study done by Informetrica Limited for INAC, **Aboriginal Construction Industry Capability Study.**)

The regional distribution of construction firms is similar to the distribution of the adult Aboriginal population. BC appears to have more firms than might be expected, and Quebec and the Prairies somewhat less.

Lines of Business

- **60% specialize in trade contracting**
- **35% specialize in building and engineering contracting**
- **5% specialize in services incidental to construction**

The kinds of contractors is similar to that found in the national industry. The dominance of trade contractors makes the subcontracting activity an important part of the business as well.

Share of National Industry

		(%)	
	#	ET	\$ MN
Atlantic	1.1	1.0	0.7
Quebec	0.8	0.6	0.3
Ontario	1.5	1.0	0.5
Prairies	7.2	5.7	3.3
B.C./Yukon/NWT	6.7	7.0	3.5
Canada	3.2	2.3	1.2

The aboriginal construction industry is 3% of the number of construction firms in Canada, with 2% of the employees and about 1% of the revenue.

However, it is much more important in the Prairies and BC+Territories, accounting for about 7% of the firms and employees and 3.4% of the revenue.

Relative Measures

	Aboriginal	National
• FTE Employees/Bus	3.7	5.2
• \$ per employee	\$83,400	\$167,000
• Debt / Equity	1.8	4.3
• Quick ratio	1.3	1.1
• Return on Equity	21.6%	3.6%
• Profit Margin	7.2%	6.7%

The typical or average aboriginal firm is smaller (3.7 employees versus 5.2), with about half the revenue per employee. This means that the revenue per firm is about 35% of the national average.

Aboriginal firms are less leveraged, in better financial shape, with higher returns on equity and slightly higher profit margins. Whether this is good management or the result of banks unwillingness to allow the firms to expand is less clear.

Firm Actions

- **Take advantage of new technologies**
- **Train yourself and staff**
- **Look beyond your community**
- **Try new organizational forms - strategic alliances, JVs, "partnerships"**
- **You are as good as your employees**
- **Adopt apprenticeship programs**
- **Insist on the best training**
- **Work with the Construction Trades**

The primary determinant of business success for any firm is the leadership and actions taken by the management. The actions noted here are likely to lead to success.

Of course, there is an old saying that "No Amount of Planning will Replace Dumb Luck."

Regional Markets

- **There is business in every jurisdiction**
- **Major projects occur in every province**
- **Many projects are small - housing, repair, and subcontracting**
- **Look under every stone - governments, businesses, individuals**

In the handout material there is a distribution of types of construction over time. The shares are fairly stable.

We monitor about 1,000 large capital projects on an on-going basis, **Canadian Capital Projects**. Again the distribution of currently active projects shows a great variety by region and by purchasing industry.

Repair construction accounts for about 17% of the total construction dollar, or 20% in addition to the new construction dollar.

POLICY AND PROGRAM RECOMMENDATIONS

1. Reduce Barriers to Bonding

- o offer financial contributions to Aboriginal businesses**
- o waive bonding requirement**
- o assist in establishing Aboriginal bonding institutions**
- o promote innovative tripartite partnerships**

2. Improve Access to Working Capital

- o modify existing federal programs**
- o increase access to Aboriginal trust companies**
- o allocate a share of land claim settlements to trust funds or other instruments**
- o offer special accommodations for advance contract payments, milestone payments and long term project financing**

3. Aboriginal Preference in Contracting

- o maintain principles of competition and value-for-money**
- o promote standards of certification**
- o establish a national registry of Aboriginal businesses**

POLICY AND PROGRAM RECOMMENDATIONS

4. Promote Access to Contract Opportunities

- o assist companies with OBS access**
- o encourage membership in construction associations**
- o apply federal procurement measures to all federal agencies and crown corporations**
- o include all federal contracts in OBS**
- o administer all federal contracts under one procurement system**

5. Support Management Training

- o promote enrollment in engineering, architectural and business schools**
- o encourage joint-partnerships through federal contracting**
- o privatize some federal project management functions**
- o support 'mentor-protégé' relationships**

6. Assist With Marketing and Bid Preparation

- o support training programs directed at identifying contracts, preparing bids, cost estimation, negotiations, evaluations**
- o workshops, conferences and service offices**
- o 1-800 lines, bulletin boards**

**Major Capital Projects
by Investor and Province/Region, 1994-2010**
Millions of Dollars

	Canada							Yukon/ N.W.T.		Canada		
	Atlantic Canada	Quebec	Ontario	Manitoba	Sask.	Alberta	B.C.	493	Multi-Reg.	Total Value	No. of Projects	Avg. Value
Total	17,137	27,227	18,309	12,996	1,422	13,972	15,832	493	33,976	141,365	453	312
Metal Mining	152	50	52	0	620	0	1,431	273	0	2,577	22	117
Non-metal Mining	353	0	0	602	0	0	0	0	0	954	3	318
Coal Mining	0	0	0	0	0	0	184	0	0	184	2	92
Oil and Gas	2,148	0	0	0	0	6,452	26	0	0	8,626	9	958
Manufacturing	1,809	2,912	1,199	136	326	1,940	2,528	0	0	10,850	65	167
Construction	0	0	90	0	0	0	0	0	0	90	1	90
Transportation	30	175	1,192	0	0	894	927	0	19,957	23,175	24	966
Storage	112	0	0	0	0	0	123	0	0	234	4	59
Communication	300	107	0	252	0	0	0	0	11,275	11,935	7	1705
Utilities	9,039	19,093	3,142	11,029	198	2,658	3,578	147	35	48,919	106	461
Trade	45	0	0	0	0	0	0	0	0	45	1	45
Commercial Services	302	447	670	356	15	1,300	1,543	0	0	4,632	40	116
Real Estate Operators	756	3,578	7,316	0	85	624	2,348	28	0	14,733	66	223
Institutional Services	196	257	475	25	137	0	822	45	0	1,956	34	58
Government	1,897	609	4,175	597	41	105	2,322	0	2,708	12,456	69	181
Total	100	100	100	100	100	100	100	100	100	100	100	n.a.
Metal Mining	0.88	0.18	0.28	0.00	43.60	0.00	9.04	55.34	0.00	1.82	4.86	n.a.
Non-metal Mining	2.06	0.00	0.00	4.63	0.00	0.00	0.00	0.00	0.00	0.67	0.66	n.a.
Coal Mining	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.13	0.44	n.a.
Oil and Gas	12.53	0.00	0.00	0.00	0.00	46.18	0.16	0.00	0.00	6.10	1.99	n.a.
Manufacturing	10.56	10.69	6.55	1.05	22.95	13.88	15.97	0.00	0.00	7.67	14.35	n.a.
Construction	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.22	n.a.
Transportation	0.18	0.64	6.51	0.00	0.00	6.40	5.85	0.00	58.74	16.39	5.30	n.a.
Storage	0.65	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.17	0.88	n.a.
Communication	1.75	0.39	0.00	1.94	0.00	0.00	0.00	0.00	33.19	8.44	1.55	n.a.
Utilities	52.75	70.13	17.16	84.86	13.95	19.02	22.60	29.80	0.10	34.60	23.40	n.a.
Trade	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.22	n.a.
Commercial Services	1.76	1.64	3.66	2.74	1.03	9.30	9.75	0.00	0.00	3.28	8.83	n.a.
Real Estate Operators	4.41	13.14	39.95	0.00	5.97	4.46	14.83	5.68	0.00	10.42	14.57	n.a.
Institutional Services	1.14	0.94	2.59	0.19	9.60	0.00	5.19	9.18	0.00	1.38	7.51	n.a.
Government	11.07	2.24	22.80	4.59	2.91	0.75	14.67	0.00	7.97	8.81	15.23	n.a.

Per Cent of Total

Source: Major Capital Projects, Informetrica Ltd.
 Notes: Major Capital Projects include announced, proposed and approved projects for 1994-2010.

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