

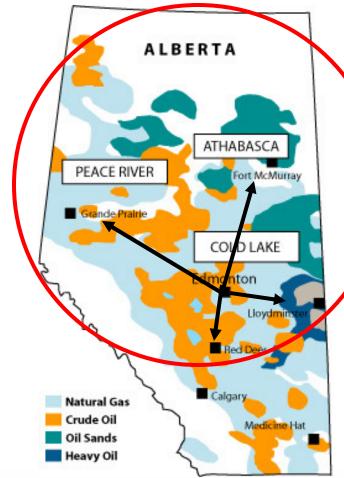
Greater Edmonton Economic Overview 2008

November 2007



EDMONTON'S ECONOMY





Edmonton (CMA):

Edmonton is naturally situated as the International gateway to Alberta's Oil & Gas regions.

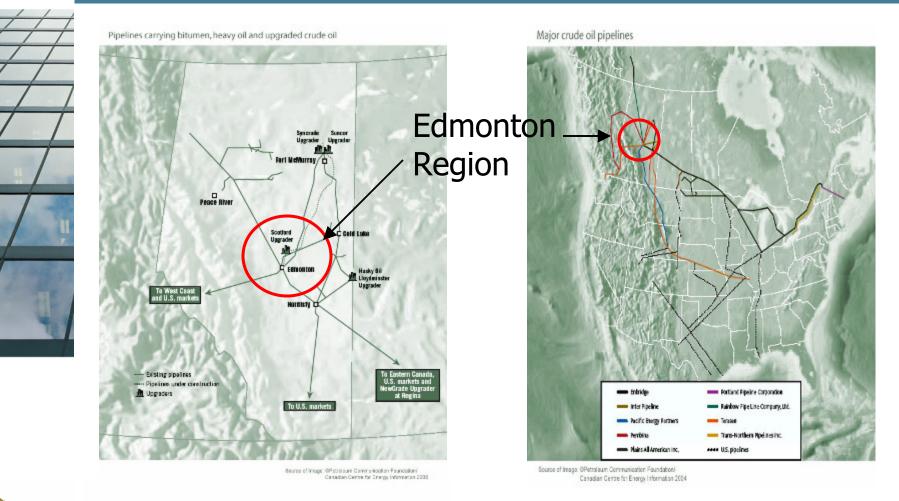
Phenomenal growth in the Athabasca Oil Sands (Fort McMurray area) has impacted all sectors of the economy.

As the largest metropolitan area in Northern Alberta, Edmonton naturally services all of the smaller regional centers.

> Fort McMurray Pop. – 65,000 Grande Prairie Pop. – 71,868 Red Deer Pop. – 82,772 Lloydminister Pop. – 27,023

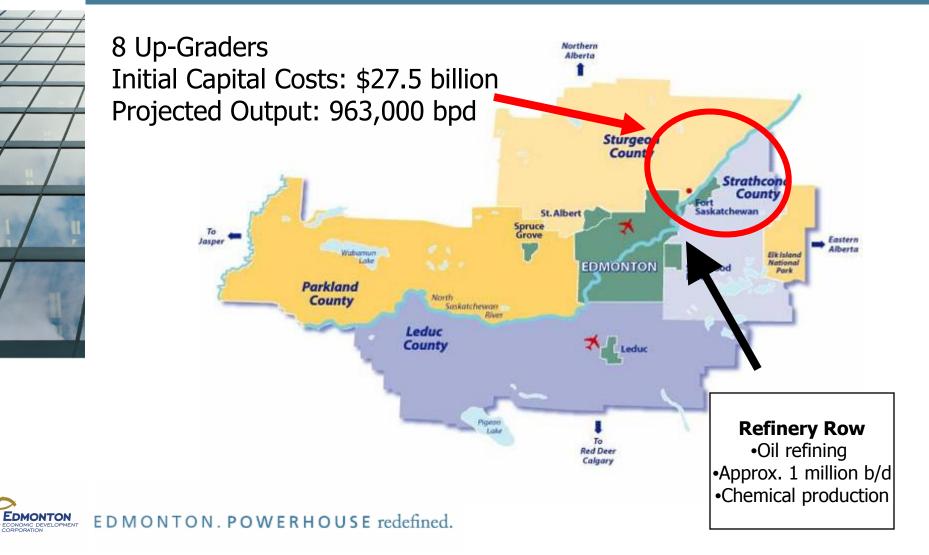


EDMONTON – AN OIL HUB

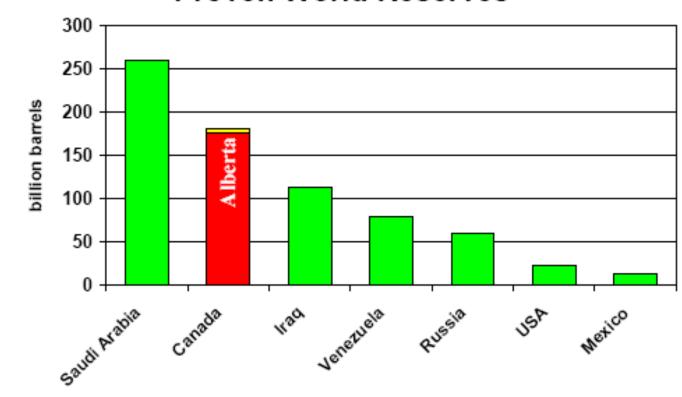


EDMONTON. POWERHOUSE redefined.

EDMONTON – FUTURE DEVELOPMENT



ALBERTA OIL RESERVES

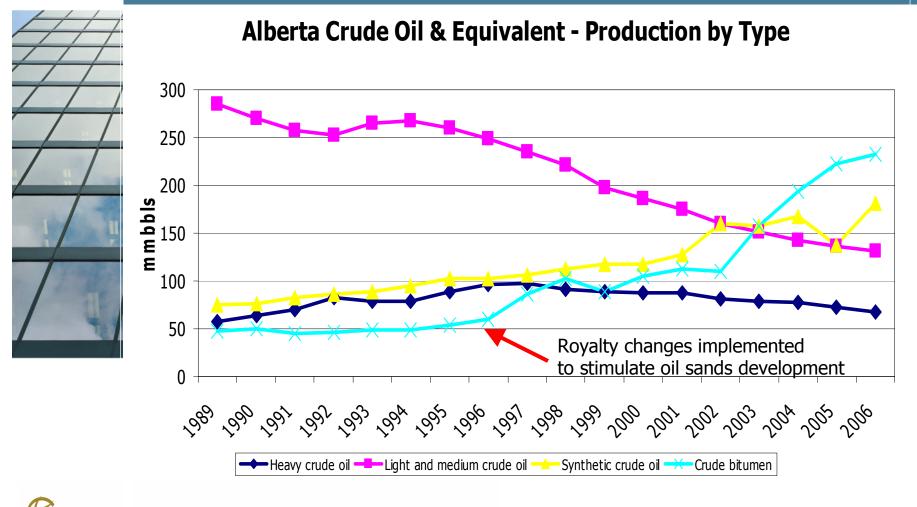






Source: Alberta Energy

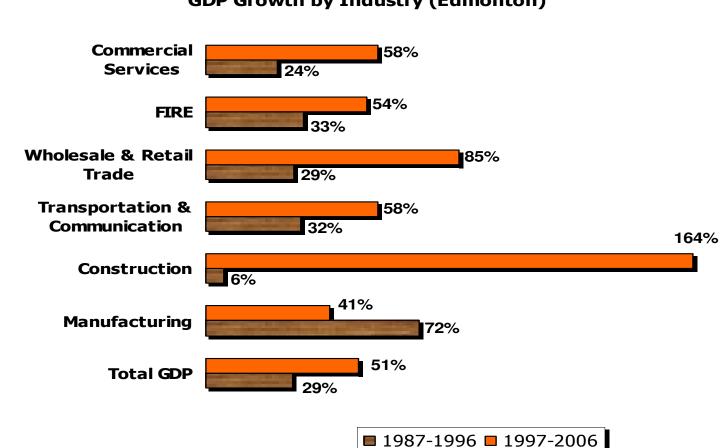
OIL SANDS PRODUCTION INCREASING



EDMONTON ECONOMIC DEVELOPMENT ECONOMIC DEVELOPMENT EDMONTON. POWERHOUSE redefined.

Source: Statistics Canada

ECONOMIC GROWTH COMPARISON

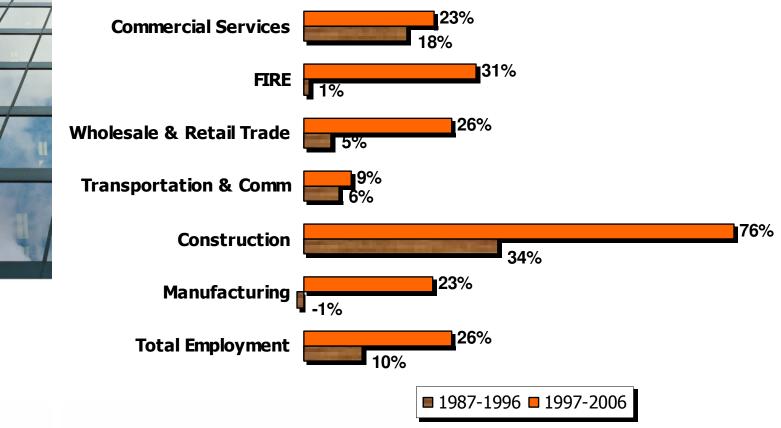


GDP Growth by Industry (Edmonton)

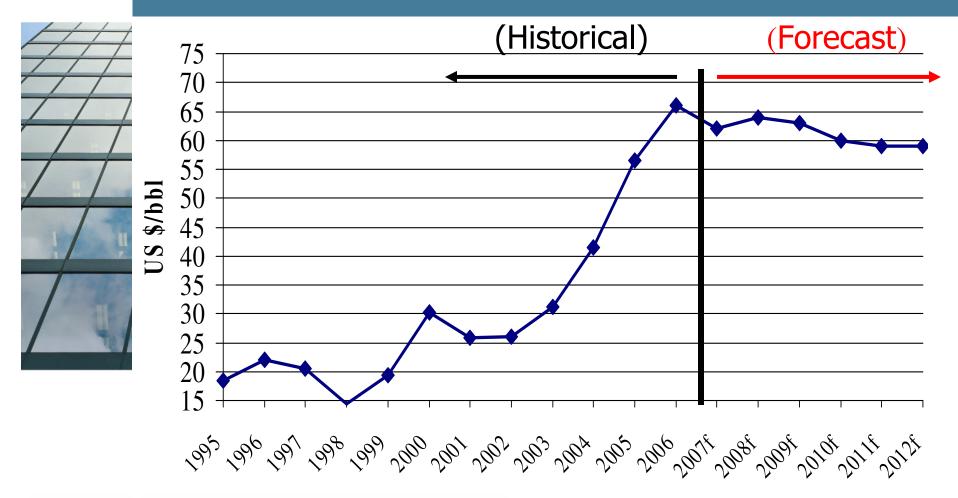


ECONOMIC GROWTH COMPARISON

Employment Growth by Industry (Edmonton)



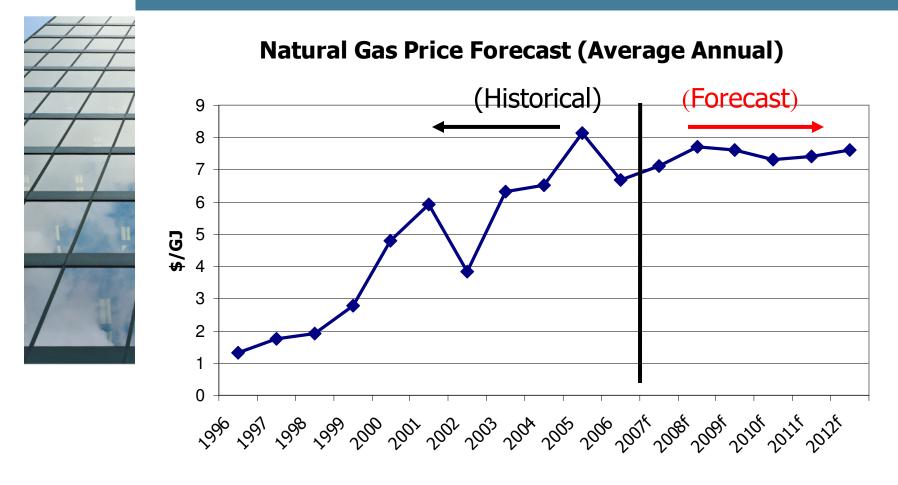
OIL FORECAST (AVERAGE ANNUAL PRICE)





Source: Canadian Petroleum Association, & Edmonton Forecast Committee

NATURAL GAS FORECAST



EDMONTON ECONOMIC DEVELOPMENT EDMONTON. POWERHOUSE redefined.

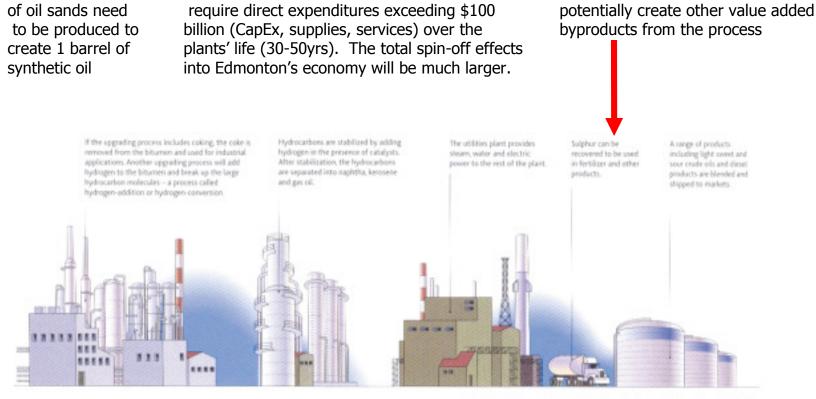
Source: City of Edmonton Planning and Development, & Edmonton Forecast Committee

CAPTURING THE VALUE CHAIN

•The 8 bitumen upgraders are estimated to



•Two tonnes



OPetroleum Communication Foundation/Canadian Centre for Energy Information 2004

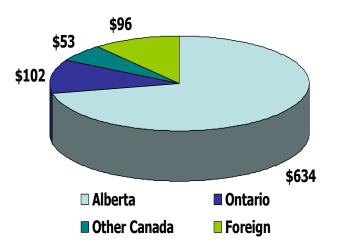
•The Edmonton area upgraders can



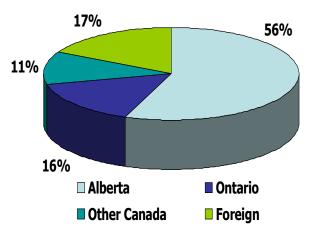
ECONOMIC BENEFITS FROM OIL SANDS 2000 – 2020 STUDY PERIOD



GDP Activity Distribution (\$885 Billion)



Employment Impact Distribution (6.6 Million person-years)



EDMONTON ECONOMIC DEVELOPMENT CORFORATION

OIL PRICE HISTORY



Year	Event	Money of the Day	Inflation adjusted (\$2006)
1864	Pennsylvania oil boom	\$8.06	\$104.35
1876	Russian oil exports start	\$2.56	\$48.64
1948	Rebuilding post WWII	\$1.99	\$16.74
1974	Arab oil embargo	\$11.58	\$47.54
1979	Iranian revolution	\$31.61	\$88.13
1980	Iran-Iraq war begins	\$36.83	\$90.46
1990	Iraq's invasion of Kuwait	\$23.73	\$36.76
1998	Asian economic crisis	\$12.72	\$6.22
2003	China 2 nd biggest oil consumer	\$38.27	\$40.83
2007	Year-to-date average	\$66.96	\$66.96

Source: Edmonton Journal (\$US)



MAJOR PROJECTS BY REGION



	Alberta		Northern Alberta		Edmonton	
Industry	# of Projects	Cost (000,000)	# of Projects	Cost (000,000)	# of Projects	Cost (000,000)
Chemicals & Petrochemicals	8	1,176	5	995	2	165
Commercial/Retail & Residential	245	16,977	92	3,676	45	2,892
Infrastructure	306	16,697	121	5,363	57	2,965
Institutional	181	10,816.0	84	3,973	32	2,691
Oil, Gas, & Oil Sands	64	152,743	55	97,578	12	29,124
Pipelines	35	8,696	22	3,897	6	2,097
Other Industrial	11	149	11	293	5	144
Tourism/ Recreational	111	7,560	45	2,783	22	733
Other	85	13,020	16	1,263	6	313
Total	1,046	\$227,834	451	\$119,821	187	\$41,123



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Source: Major Projects, Alberta Employment Immigration & Industry

GROWTH IN ALL INDUSTRIES

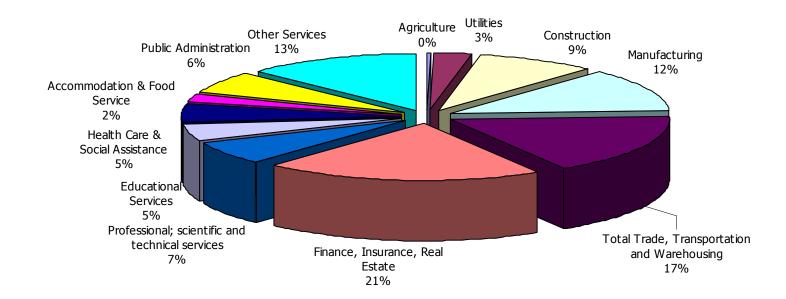


•Although the oil & gas industry remains the driving force behind Edmonton's economy, almost all industries benefit from the economic growth.



EDMONTON'S DIVERSE ECONOMY

Edmonton GDP by Industry





CURRENT INITIATIVES FOR DIVERSIFICATION



Edmonton is home to many diverse opportunities for economic diversification.

• Current sector initiatives can be found in:

- Nano/Bio/ICT
- Health
- Asia Pacific Corridor

EDMONTON EDMONTON. POWERHOUSE redefined.

NATIONAL INSTITUTE OF NANOTECHNOLOGY



- The National Institute for Nanotechnology (NINT) is an integrated, multi-disciplinary institution involving researchers in physics, chemistry, engineering, biology, informatics, pharmacy and medicine.
- The realization of NINT's goals, will lead to important new applications and commercial opportunities, and will establish Edmonton as an internationally-recognized centre of nanotechnology research and industrial activity.
- Creating a solid reputation will attract young scientists and graduate students of high calibre to continually increase the capabilities of the institute.





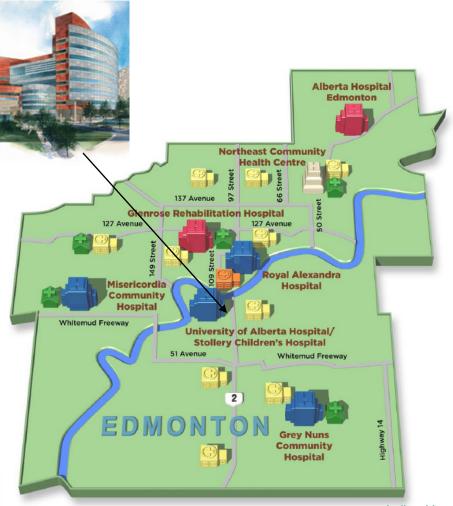
MAZANKOWSKI ALBERTA HEART INSTITUTE



The Mazankowski Alberta Heart Institute represents a \$196 million investment to the health and wellbeing of Edmonton residents and a substantial commitment to the emerging life sciences sector.

The state of the art medical facility has attracted numerous prominent doctors to Edmonton.

The institute promises to become a world leader in heart-related research with upto \$100 million being spent annually by 2012.



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www.capitalhealth.ca

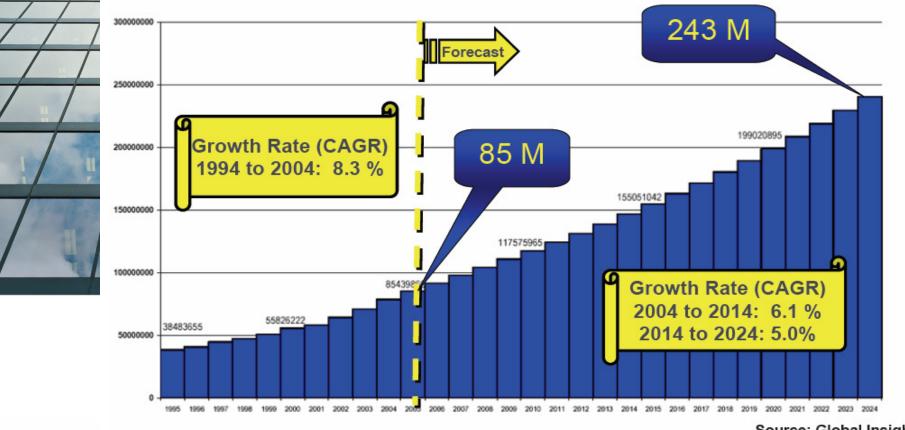
ASIA-PACIFIC GATEWAY & CORRIDOR

- The Asia-Pacific Gateway and Corridor is a system of transportation infrastructure, including British Columbia Lower Mainland and Prince Rupert ports, road and rail connections that reach across Western Canada and into the economic heartlands of North America, as well as major airports and boarder crossings.
- As the first major urban centre on the CN line from Port of Prince Rupert, Edmonton is on track to benefit as a transportation hub for goods coming in from Asia.
 - The container terminal will also open up opportunities to export commodities (grain, forest products, plastics, etc) from Western Canada through backhaul in containers to Prince Rupert.



RAIL SHIPPING FORECAST

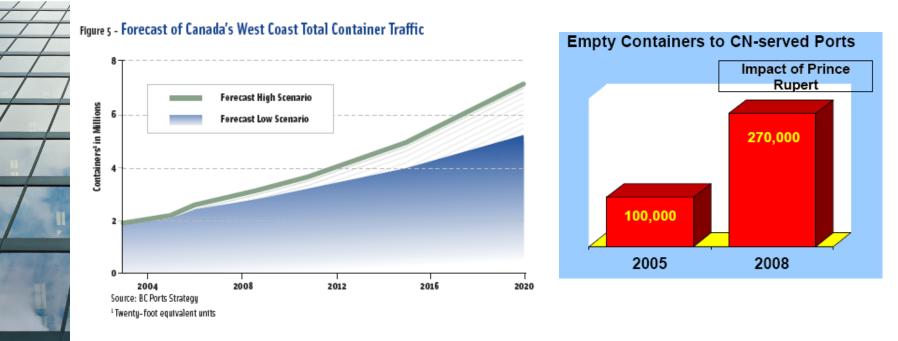
World Container Forecast



Source: Global Insight



ASIA PACIFIC SHIPPING CORRIDOR



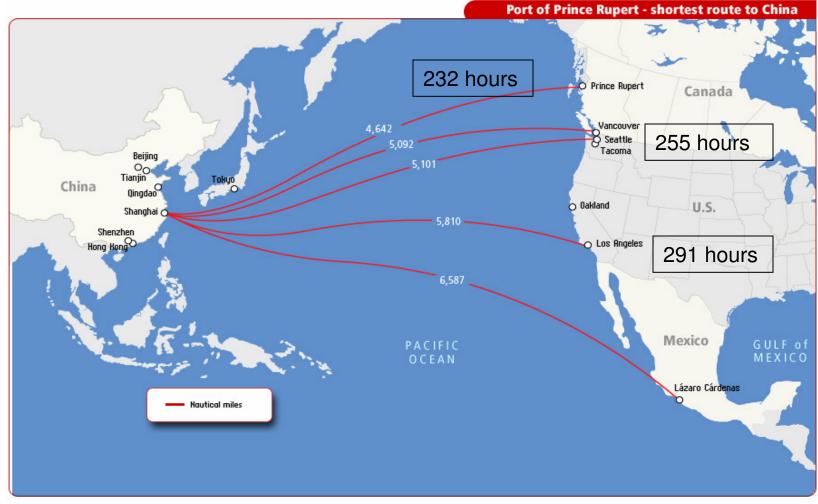
• By 2020 container traffic in the West is expected to increase up to 3.5 times the 2004 levels.

• A surplus of empty containers are predicted to move through Edmonton to Prince Rupert. Edmonton is geographically positioned to take advantage of the 'backhaul' opportunities.



ASIA PACIFIC SHIPPING CORRIDOR – PORT OF PRINCE RUPERT







EDMONTON - TRANSPORTATION HUB





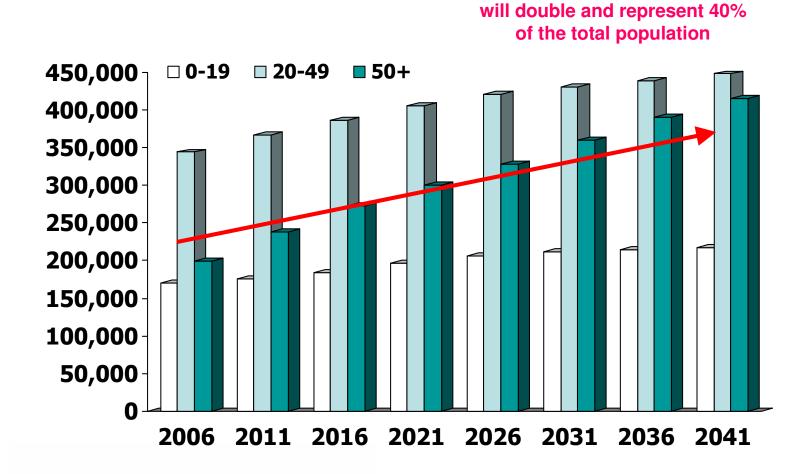
CHANGING DEMOGRAPHICS



- The slowing of the Canadian birth rate combined with the aging of the "baby boomers" means that there will not be enough workers in future years.
- This will have an impact on our ability to achieve our economic potential in future years.
- We are shifting from an economy based on "job creation" to one of "doing more with less labor".
- All sectors will be impacted as labor shortages are likely to intensify.
- Unemployment rate has hit 30-yr lows in 6 provinces



EDMONTON'S DEMOGRAPHIC TRENDS





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By 2041, the population 50+

ENVIRONMENTAL SCAN



Key Environmental Issues

- Strong Economic Growth forecast for the next decade.
- Costs are rising.
- Space shortages are appearing.
 - General Labour shortages constraining growth.
- Changing demographics.
- Diversification challenges.

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Implication

Edmonton must make the most of this current economic boom – infrastructure and diversification.

The Alberta Advantage has been eroded as input costs rise, and other provinces cut tax rates. The rapid escalation of costs may slow project investment.

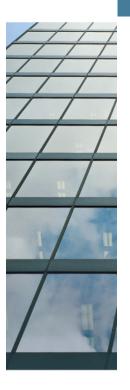
Housing, Industrial land, Downtown real estate are all in short supply. Rents are not high enough to warrant new construction at current costs.

High churn affects productivity, disparity between industries which can pay high wages (oil, construction), need to attract people.

Fundamental changes in North America as baby boomers age – requires more focus on efficiency, productivity and innovation

Cost escalation and high focus on resource industries makes it difficult to attract and grow knowledge/technology based industries.

RISKS TO ECONOMIC GROWTH



Edmonton's economy is currently operating at full capacity. Significant issues that could drastically impact economic growth are:

1.Price of Oil & Gas

2.Inflation

3.Migration

4. Environmental Legislation – Domestic & International



CHALLENGES & OPPORTUNITIES

Challenges Continued Labor Shortage

Shifting Demographics

<u>Opportunities</u>

Firms that embrace efficiency, productivity and innovation will thrive.

Firms that embrace the problem and create long-term solutions today, will create a competitive advantage for themselves.

Rampant Growth

Rampant growth leads to ideas. The upgraders being developed is a prime example – how can we capture more value from their development? E.g. Spinoff byproducts/industries created from the process.

Cost Competitiveness Eroding

Diversification of Economy

Add value, automate, lean manufacturing

Continue creating knowledge based industries



SOURCES ON INFORMATION

The information in the 2008 Edmonton Overview has been compiled from the following sources:

- Alberta Energy
- Alberta Finance
- Statistics Canada
- Petroleum Communication Foundation/Canadian Centre for Energy
- Conference Board of Canada
- Edmonton Forecasting Committee *
- CERI
- Alberta Employment Industry & Immigration

- Canadian Petroleum Association
- Epcor
- CAPP
- City of Edmonton Planning & Development Department
- Canadian Mortgage and Housing Corporation (CMHC)
- CB Richard Ellis
- Canadian Association of Energy Information

Note: A significant amount of the information in the Edmonton Overview has been compiled from external sources. While reasonable effort has been made to ensure the accuracy of the information, EEDC can not be held liable for inaccurate or outdated information.

CONTACT US



2008 Economic Overview

A PDF version of the Overview can be downloaded from <u>www.edmonton.com/statistics</u>

A PowerPoint version is available by email request at <u>info@edmonton.com</u>



