




Workforce Transportation Challenges


Transportation Innovation in Alberta's Oil Sands

May 13, 2009


Introduction



HOME ABOUT US TRAVELLER INFO CHARTER & FLIGHT CAREERS



Welcome to Enerjet



Introducing Enerjet - the newest addition to Canada's aviation landscape. Enerjet's state of the art Boeing 737-700 Next-Generation Jet Aircraft is available for charter to Canadian companies, organizations and groups.


Enerjet is run by a core group of entrepreneurial individuals and proven airline veterans. We provide professional, reliable service and hire the best in the business. Our team is growing, and so is our vision. Explore the site to learn how Enerjet can work for you.

enerjet news

MAY 1, 2009 - TRAVEL ADVISORY FOR FLIGHTS TO AND FROM MEXICO
Foreign Affairs and International Trade Canada has issued a travel warning for Canadians travelling to Mexico due to an outbreak of the H1N1 Flu Virus. [Read More](#)

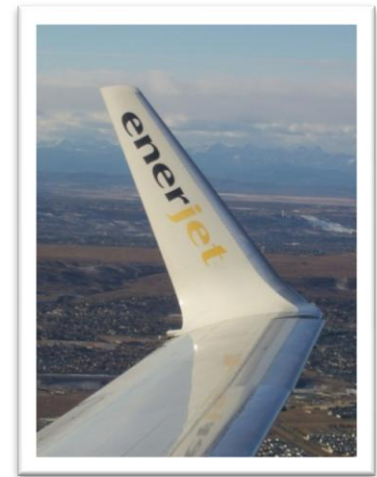
APR 18, 2009 - ENERJET CHOOSES AFI KLM ESM FOR 737NG COMPONENT SUPPORT
Paris, Amsterdam, 18th April 2009 - Canadian charter airline Enerjet signed an exclusive 5 year component support contract with Air France Industries (AFI) and KLM Engineering & Maintenance (KLM ESM) covering maintenance and pool access for their growing fleet of 737NGs. [Read More](#)

JAN 28, 2009 - ENERJET SIGN'S WITH ARINC FOR COMMUNICATIONS; FULL SUITE OF SERVICES BEHIND A SUCCESSFUL CHARTER LAUNCH
Annapolis, Maryland-Canada's newest domestic and international charter carrier, Enerjet, has contracted with ARINC to provide state



Industrial Workforce Challenges

- Safety
- Acquisition and Retention
- Productivity
- Infrastructure and Housing
- Environmental Impact



Transportation Safety

- Deadly Outcomes in 2008 (RCMP)
- Highway 63
 - 10 fatal collisions
 - 65 injury collisions
- Highway 881
 - 3 fatal collisions
 - 16 injury collisions

“When one travels on Highways 63 and 881, it’s hard to miss the crosses along the road that represent some of the 39 people who have died there over the last 18 months.”

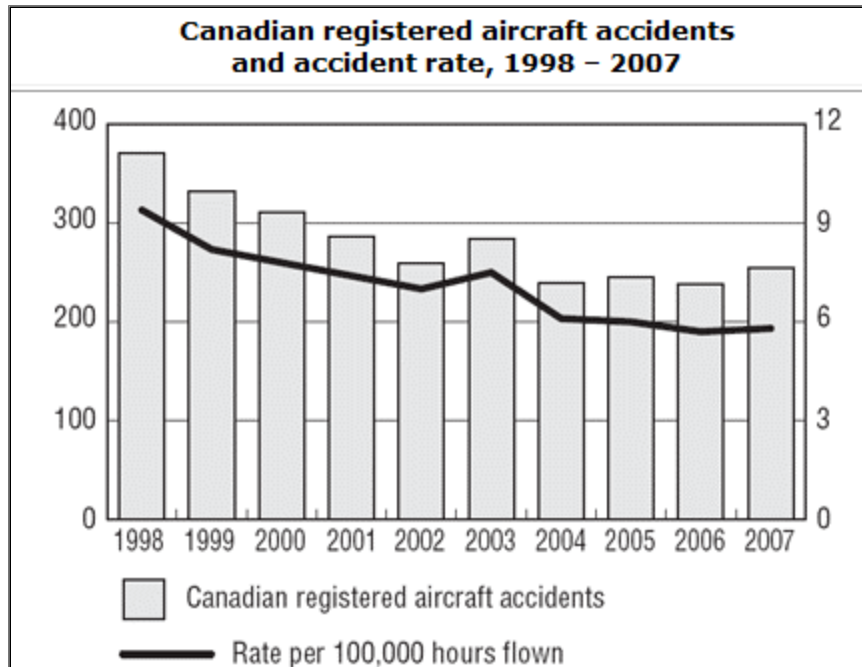
(Safe Community Wood Buffalo)



Photo courtesy of June Warren-Nickles Energy Group

Transportation Safety

- Air travel safety incidents are always newsworthy, and frequently are drawn to our attention in the media
- The facts reveal that air travel is remarkably safe when compared to other modes – and getting safer



Transport Canada Annual Report 2007

Deaths per billion kilometres
Air: 0.05
Bus: 0.4
Rail: 0.6
Van: 1.2
Water: 2.6
Car: 3.1
Bicycle: 44.6
Foot: 54.2
Motorcycle: 108.9

^ [Informed Sources Archive](#) Alycidon Rail web site. Retrieved 29 April 2009. The site cites the source as an October 2000 article by Roger Ford in the magazine [Modern Railways](#) and based on a DETR survey.

Acquisition and Retention

“The issue of workforce shortages is the most serious threat to Alberta’s economic health. Lack of skilled labour impacts schedules and costs, which in turn could derail or delay critically important projects and jeopardize the economic benefits these projects generate.

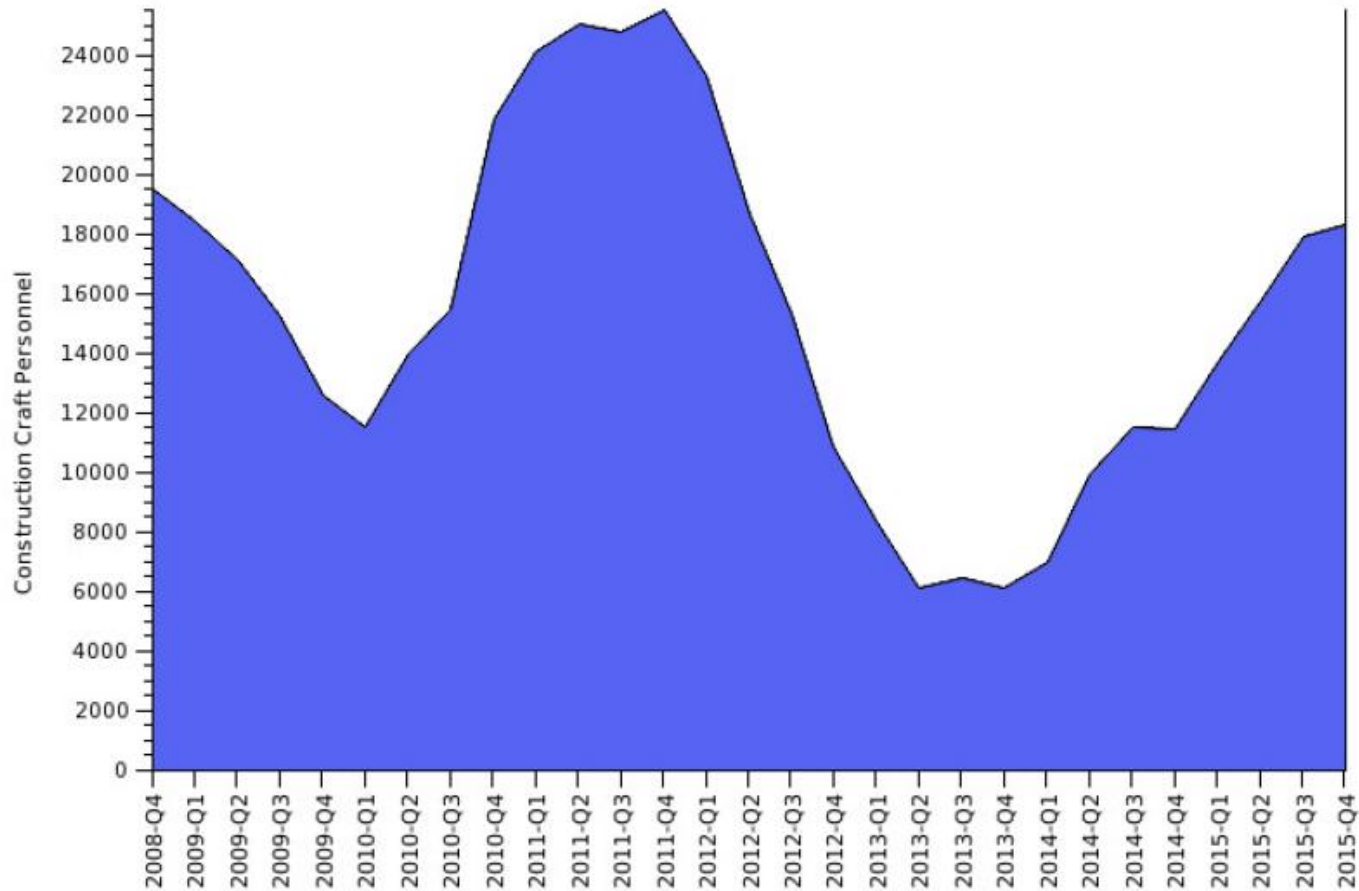
All aspects of industrial development – oil sands, forestry, construction, manufacturing, government and service sector industries – are experiencing severe and prolonged shortages of “people power”. It’s not just the quantity of workers that puts our growing economy at risk – the quality of our workforce is just as important. From the mega-project oil sands operations to the family-owned small business, high-quality work starts with well-trained, qualified employees who know how to do the job right, and do the job safely.”

Construction Owners Association of Alberta – May 2009

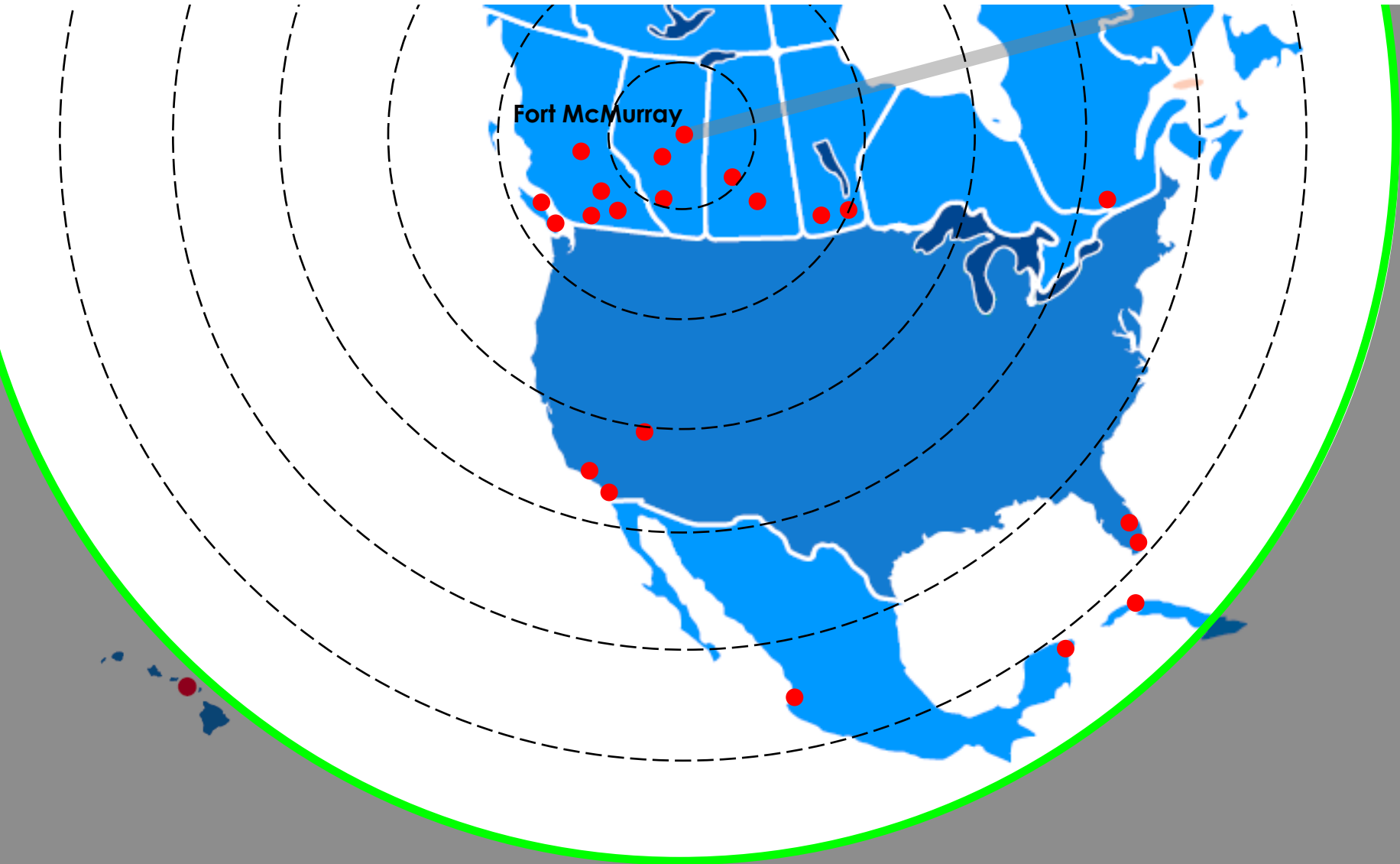
Acquisition and Retention



Industrial Construction Projects
>100 MM Cdn (2008Q4 - 2015Q4)
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Acquisition and Retention



Productivity

- Is the real issue behind project cost escalation the price paid or the value received?
- Suncor at NBSF 2009:
“not so much the cost of the workers, but their productivity”
- So what are you paying your workforce to do?

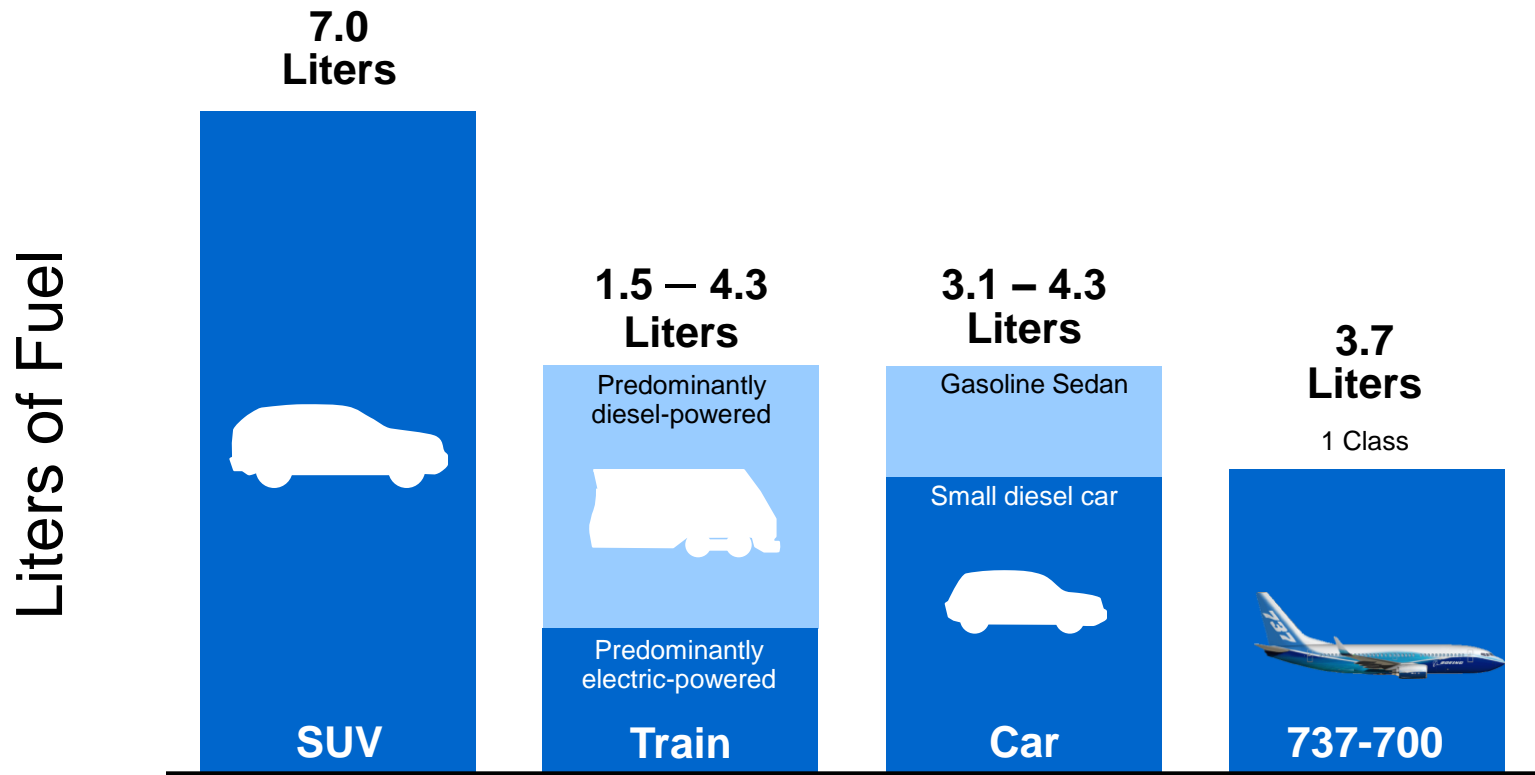


Photo courtesy of June Warren-Nickles Energy Group

Relaxed, happy and ready to work?



Productivity



- Computed per 100 passenger kilometers, assuming average modal load factors (1.6 passengers for SUV and cars, 38.7% for German diesel train, 70% for low density 737, and 47.6% for electric trains). Load factor not available for U.S. train and based on total system wide energy consumption and passengers carried in 2000.
- Electric trains are assumed to have typical electricity generation factors, reflecting a mix of fossil fuels, nuclear and hydroelectric sources.

Infrastructure and Housing



Housing costs to skyrocket, study warns

A new computer software program has predicted Wood Buffalo's financial future — and the draft shown to municipal councillors last night was described as “scary.”

April 29, 2009



Recognize the need for temporary foreign workers – Even if all sources of domestic labour are mobilized effectively, the fact is there still will not be enough skilled construction workers to complete all of Alberta's heavy industrial construction projects over the next decade. It will be necessary to employ temporary foreign workers to deal with peaks in labour demand.

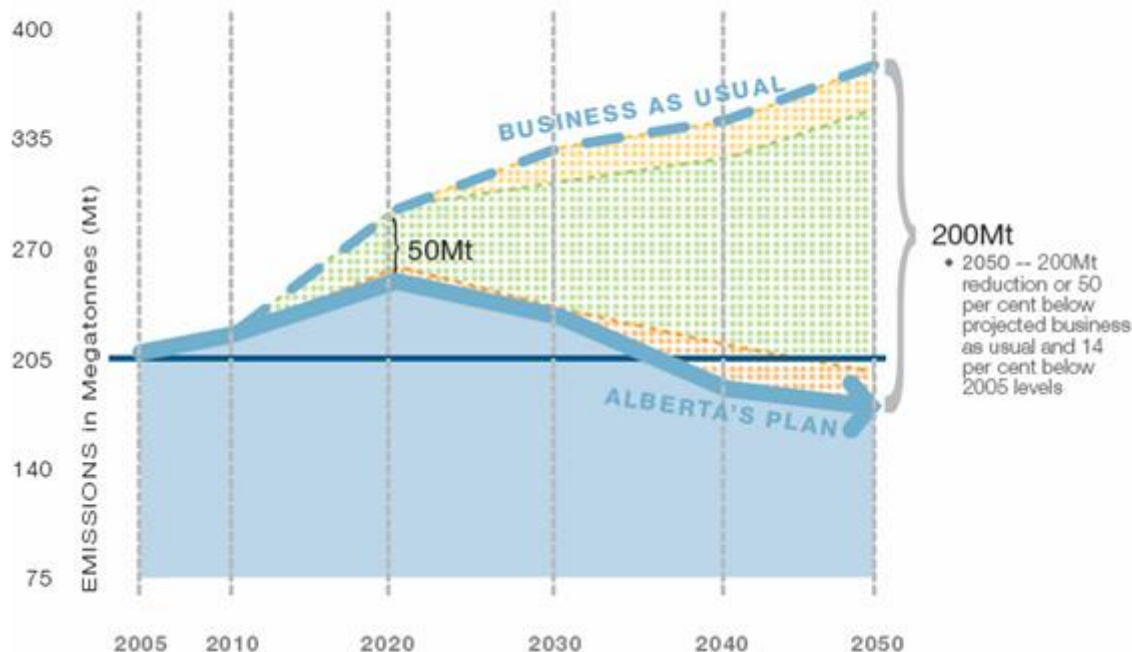
May 2009

Environmental Impact

- Every oil sands project will have environmental impacts. The question is, how to minimize them?



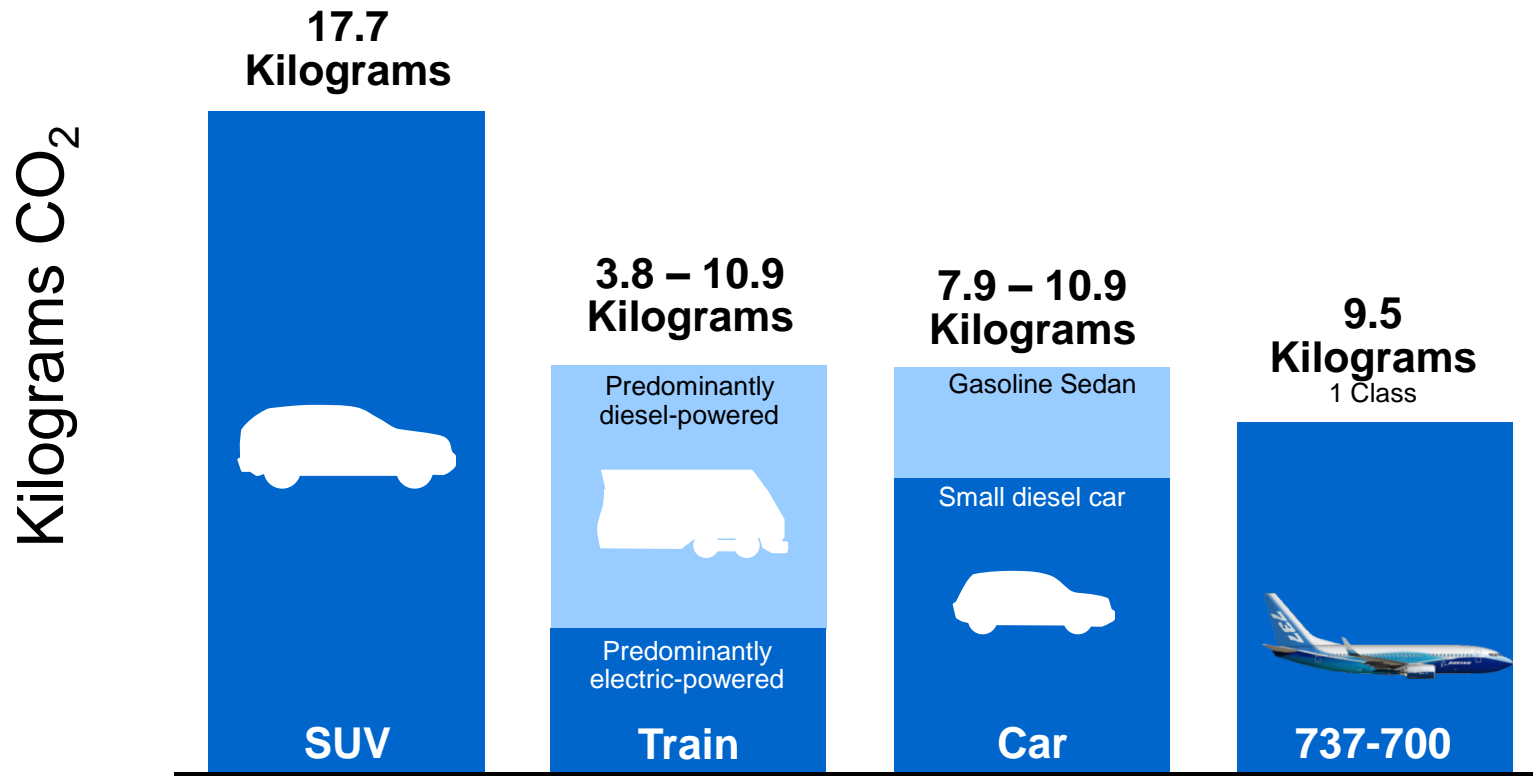
ALBERTA'S REDUCTION COMMITMENTS



“Our nation’s future prosperity and its potential as a clean energy superpower are at stake. The issues of energy security, environmental protection and economic recovery are interrelated, and must be addressed together.”



Environmental Impact



- Computed per 100 passenger kilometers, assuming average modal load factors (1.6 passengers for SUV and cars, 38.7% for German diesel train, 75% for low density 737, 90% for high density 737 and 47.6% for electric trains). Load factor not available for U.S. train and based on total system wide energy consumption and passengers carried in 2000..
- Electric trains are assumed to have typical electricity generation factors, reflecting a mix of fossil fuels, nuclear and hydroelectric sources.

Fly-in Workforce Reduces The Challenges

- ✓ Safety
- ✓ Acquisition and Retention
- ✓ Productivity
- ✓ Infrastructure and Housing
- ✓ Environmental Impact



Enerjet ups the ante for workforce transportation

- Prior to 2008, the only option available for oil sands projects seeking large cabin aircraft were aging fleets retired from service by more demanding markets
- In 2008 Enerjet changed this by enlisting the youngest commercial aircraft fleet in the country
- As a result, workforce transportation challenges are dramatically reduced by the application of modern aviation technology that oil sands workers and communities deserve

✓ **Greener**

✓ **Productivity**

✓ **Quieter**

✓ **More Reliable**



Enerjet Aircraft Are Greener

- Fuel Consumption reduced by 27%
- Green House Gas emissions reduced by 30 to 40%
- The only engines in their class certified compliant with CAEP/6 emissions standards



Enerjet Enhances Productivity

- **Faster**

- Save 2.3 hours Ft. McMurray to St. John's



- **Bigger**

- 137 seats vs. 112



- **More Comfort**

- Quieter, Conveniences

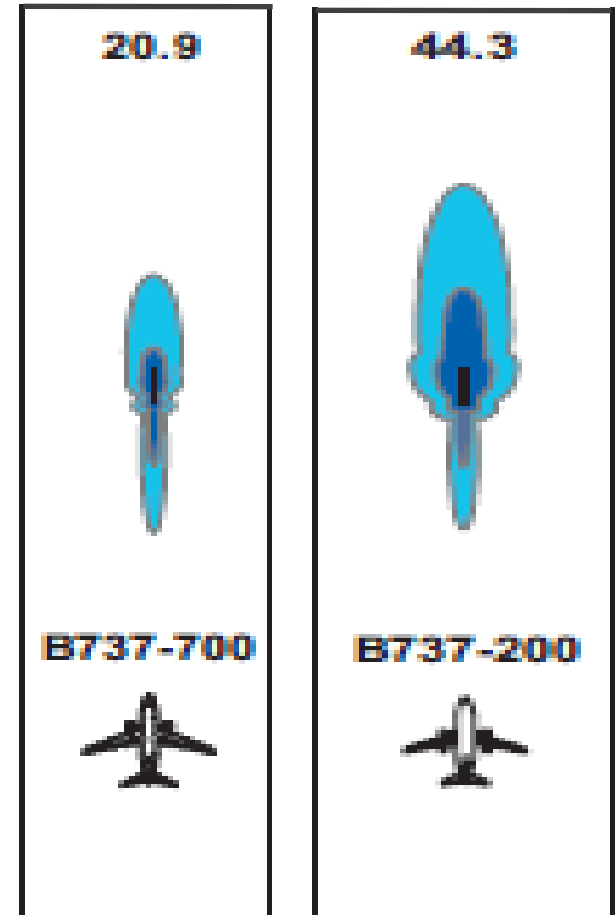


Enerjet is Quieter

- How does Enerjet help to reduce the noise impact of air travel?
- Our “New Generation” aircraft are significantly quieter than aircraft typically used for workforce transportation
 - External noise footprint is reduced by nearly 24 square miles →
 - Cabin noise is reduced by 19 %



**Cabin noise of
65 db
reduced from
80 db**



Source: Chicago Airport Noise Monitoring System (ANMS) INM Version 7.0

Enerjet Aircraft are Reliable¹

- Availability
 - 60% less maintenance days required for new generation aircraft
- Reliability
 - Better Dispatch Reliability
 - 996 departures out of 1,000



1. Boeing Aircraft Corporation



Thank-you

www.enerjet.ca

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