



# Oil Sands Project Report

WOOD BUFFALO  
JANUARY 2011

Government  
of Alberta ■

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# How to use this report

This report lists oil sands projects located in or adjacent to the Regional Municipality of Wood Buffalo and their current status: operating, under construction, proposed or on hold. The report looks at both mining and in-situ oil sands projects, as well as upgraders. New or proposed projects are included only if they are active or can reasonably be expected to start construction within the next two years.

This report can be used as a resource for job seekers, contractors and others who are interested in the near-term status of oil sands development in the region.

## OTHER PROJECT LISTS

This report is organized primarily for job seekers and contractors in the Regional Municipality of Wood Buffalo making immediate or near-term career and business decisions. There are other sources of oil sands project lists which include different information, such as production capacity, projects with longer lead times and projects in other parts of Alberta.

- *Oilsands Review magazine*, June Warren-Nickle's Energy Group: [oilsandsreview.com](http://oilsandsreview.com)
- *Alberta Oil Sands Industry Quarterly Update*, Government of Alberta: [albertacanada.com/about-alberta/oil-sands-quarterly.html](http://albertacanada.com/about-alberta/oil-sands-quarterly.html)
- *Existing and Proposed Canadian Commercial Oil Sands Projects*, Strategy West: [strategywest.com](http://strategywest.com)
- Oil Sands Developers Group's interactive oil sands map: [oilsandsdevelopers.ca](http://oilsandsdevelopers.ca)

## JOB SEEKERS

Looking for work in Wood Buffalo? This report provides a list of oil sands projects in the region and their current status. You can use this report as a guide to see which projects are operating, which are under construction and which are proposed for the future.

The list is broken down by surface mining (open pit) and in-situ (in-place) oil sands developments, as well as upgraders.

There are many phases to an oil sands project. Each phase creates different types of jobs:

- ➔ **Pre-Construction:** Before construction starts, there is exploration, engineering, regulatory and financing activity under way on some projects.
- ➔ **Construction:** During construction, oil sands companies hire contractors to build everything from access roads to steam plants and refineries. Certified tradespeople, labourers and heavy equipment operators are some of the workers needed during the construction phase. Most construction workers are hired by construction companies, not by the mining companies.
- ➔ **Operations and maintenance:** When construction is complete, oil sands companies employ a variety of skilled workers to operate and maintain the plants. This includes engineers and technologists, as well as management, business and administration staff. They also employ certified tradespeople, such as welders and pipefitters, process operators and heavy equipment operators. Maintenance work is often contracted to oil and gas service companies.

To see which oil sands companies or contractors are hiring, go directly to their corporate websites (see “Contact Information” at the end of this document). Most companies post their job openings on their corporate websites under headings such as Careers, Employment or Jobs.

## Help is available

For more information on finding employment in Fort McMurray contact the Labour Market Information Centre at 780-743-7149.

If you're in Fort McMurray, you can also visit the local Labour Market Information Centre (LMIC) for help with your job search. The LMIC offers a variety of free services for job seekers including a job board, fax and photocopy machines, phones and computers with Internet access. Best of all, you can speak to Career and Employment Consultants. They provide resumé assistance and can help you with career and education planning.

The Fort McMurray LMIC is located in the Canada-Alberta Service Centre at 9915 Franklin Avenue in the Provincial Building. Call them at 780-743-7192. For a complete list of LMICs in Alberta visit [employment.alberta.ca/lmic](http://employment.alberta.ca/lmic).

For a list of other career and employment services in the Regional Municipality of Wood Buffalo, visit [woodbuffalo.net/CareerEmpServices.html](http://woodbuffalo.net/CareerEmpServices.html).

## QUICK FACT

Some oil sands companies and contractors provide camp accommodations for their workers, depending on the job and site. They may also fly skilled workers into the region from designated pick-up locations, especially for more remote sites. Other companies require that you live in the region in order to work for them. Contact companies directly to see what they offer.

## CONTRACTORS

Oil sands developments create many opportunities for contractors who want to work in the region. Contractors often work directly for oil sands companies doing construction and maintenance work. They may also subcontract to larger construction companies. Work is done not only in and around Fort McMurray, but across the Regional Municipality of Wood Buffalo and in the Athabasca Deposit outside the municipality.

Contractors can use this report as a guide to see the status of different oil sands projects that they might want to bid on.

To investigate contracting opportunities, contact major employers, including oil sands companies. There are four oil sands mining companies currently operating in the region (Suncor Energy, Syncrude, Athabasca Oil Sands Project and Canadian Natural Resources Ltd.). There are also dozens of in-situ production companies and a number of major construction companies that may sub-contract.

Start with a search of company websites. Some companies, such as Canadian Natural Resources Ltd., Cenovus and Suncor Energy, have detailed information for contractors online. If information is not on a company's website, call their main phone number and ask who to talk to about subcontracting opportunities or vendor pre-qualification.

### QUICK FACT

The Oil Sands Developers Group estimates that each permanent oil sands-related job generates nine additional direct, indirect and induced jobs across Canada. More than 456,000 jobs are linked to the construction and operation of oil sands facilities. (For more information visit [oilsandsdevelopers.ca](http://oilsandsdevelopers.ca))

## Online Resources for Contractors

- Alberta Purchasing Connection ([purchasingconnection.ca](http://purchasingconnection.ca)) has information on current and past contract opportunities for all Government of Alberta departments and other organizations.
- Community Futures Wood Buffalo ([cfwb.ca](http://cfwb.ca)) provides assistance to business owners in the Fort McMurray area.
- Fort McMurray Construction Association ([fmca.net](http://fmca.net)) provides its members with leads on construction project bid opportunities.
- The Employer Websites section at [woodbuffalo.net/linksEMPLIntro.html](http://woodbuffalo.net/linksEMPLIntro.html) has a list of local construction and engineering companies.
- Regional Economic Development (RED) Link, [redlink.ca](http://redlink.ca), has a searchable vendor database of companies that contract to oil sands developers. There are also oil sands companies that post work opportunities through RED Link.

## MINING VS IN-SITU

When oil sands bitumen is located near the earth's surface, **open pit mining** is used. Large shovels and trucks dig out the oil sand, which is sent to a refinery to be processed.

When oil sands bitumen is located 200 feet or more beneath the earth's surface, **in-situ technology** is used. This simply means the bitumen is recovered 'in-place' using drilling wells. Steam, air or solvents are injected into the wells to soften the bitumen and help bring it to the surface.

## ONLINE RESOURCES

### Industry information

- Alberta Construction Safety Association ([acsa-safety.org](http://acsa-safety.org))
- Building Trades of Alberta ([buildingtradesalberta.ca](http://buildingtradesalberta.ca))
- Canadian Association of Petroleum Producers ([capp.ca](http://capp.ca))
- Canadian Energy Advantage ([canadianenergyadvantage.com](http://canadianenergyadvantage.com))
- Canadian Heavy Oil Association ([choa.ab.ca](http://choa.ab.ca))
- Centre for Energy ([centreforenergy.com](http://centreforenergy.com))
- Construction Owners Association of Alberta ([coaa.ab.ca](http://coaa.ab.ca))
- Fort McMurray Construction Association ([fmca.net](http://fmca.net))
- In Situ Oil Sands Alliance ([iosa.ca](http://iosa.ca))
- Merit Contractors Association ([meritalberta.com](http://meritalberta.com))
- Oil Sands Developers Group ([oilsandsdevelopers.ca](http://oilsandsdevelopers.ca))
- Oil Sands Discovery Centre ([oilsandsdiscovery.com](http://oilsandsdiscovery.com))

- Oil Sands Safety Association ([ossa-wb.ca](http://ossa-wb.ca))
- Petroleum Services Association of Canada ([psac.ca](http://psac.ca))
- Urban Development Institute Wood Buffalo ([udiwoodbuffalo.com](http://udiwoodbuffalo.com))

### Government

- Energy Resources Conservation Board ([ercb.ca](http://ercb.ca))
- Alberta Energy ([energy.alberta.ca/OurBusiness/oilsands.asp](http://energy.alberta.ca/OurBusiness/oilsands.asp))
- Alberta Employment and Immigration ([employment.alberta.ca](http://employment.alberta.ca))
- Government of Alberta–Oil Sands ([oilsands.alberta.ca](http://oilsands.alberta.ca))
- Map of Major Alberta Oil Sands Projects ([energy.alberta.ca](http://energy.alberta.ca))

### Career and job search resources

- Wood Buffalo Labour Market Information at [woodbuffalo.net](http://woodbuffalo.net):
  - [Career resource links](#)
  - [Recruiting agencies](#)
  - [Job boards](#)
  - [Local career services](#)
  - [Employer website links](#)

- Labour Market Information at [employment.alberta.ca/lmi](http://employment.alberta.ca/lmi):
  - [Employment rates](#)
  - [Industry profiles](#)
  - [Labour market forecast](#)
- Labour Market News at [woodbuffalo.net](http://woodbuffalo.net):
  - [Employment in the oil sands](#)
  - [Finding a job in Fort McMurray](#)
  - [In-situ oil sands jobs](#)
- Alberta Learning Information Service ([alis.alberta.ca](http://alis.alberta.ca))
- Apprenticeships and Industry Training ([tradesecrets.alberta.ca](http://tradesecrets.alberta.ca))
- Careers in Construction ([careersinconstruction.ca](http://careersinconstruction.ca))
- Careers in Oil and Gas ([careersinoilandgas.com](http://careersinoilandgas.com))
- Construction Job Store ([ab.constructionjobstores.com](http://ab.constructionjobstores.com))
- Job Order Bank Service (JOBS) ([www.jobbank.gc.ca](http://www.jobbank.gc.ca))
- Keyano College ([keyano.ca](http://keyano.ca))
- Petroleum Human Resource Council ([petrohrsc.ca](http://petrohrsc.ca))
- Red Seal (Interprovincial trade standards) ([red-seal.ca](http://red-seal.ca))
- Women Building Futures ([womenbuildingfutures.com](http://womenbuildingfutures.com))

## SOURCES AND CREDITS

This report was written by Applications Management Consulting. Information in this report was gathered from a variety of sources including but not limited to: *Oilsands Review* magazine, JuneWarren-Nickle's Energy Group; *Alberta Oil Sands Industry Quarterly Update*, Fall 2010, Government of Alberta; *Existing and Proposed Canadian Commercial Oil Sands Projects*, September 2010, Strategy West; Oil Sands Developers Group website and interactive map; news releases, media reports and articles; corporate websites and industry contacts.

Photos are courtesy of: Suncor Energy, Syncrude, Canadian Natural Resources Ltd., Connacher Oil and Gas and Nexen Inc. Map is courtesy of the Regional Municipality of Wood Buffalo ([woodbuffalo.ab.ca](http://woodbuffalo.ab.ca)).

## OIL SANDS PROJECT LOCATIONS

Most oil sands projects in the Regional Municipality of Wood Buffalo (RMWB) are located in remote areas north and south of Fort McMurray. Fort McMurray is the largest community in the municipality with a population of over 72,000. An additional 31,000 people live in the region, including approximately 25,000 in work camps.

The map at right shows the location of oil sands operations around the region in relation to Fort McMurray and smaller communities including Fort MacKay, Anzac, Janvier and Conklin. (Oil sands operations are marked by a green triangle symbol while communities are marked by a red dot. The size of the red dot indicates the size of the community.)

For a more detailed map showing developments by different companies, you can go online to the Oil Sands Developers Group (OSDG) website. The OSDG has created an interactive map which shows oil sands developments in Alberta, including the RMWB. Go online to [oilsandsdevelopers.ca](http://oilsandsdevelopers.ca) and click on Oil Sands Map in the menu bar. Once there, you can search for both surface mining and in-situ projects.

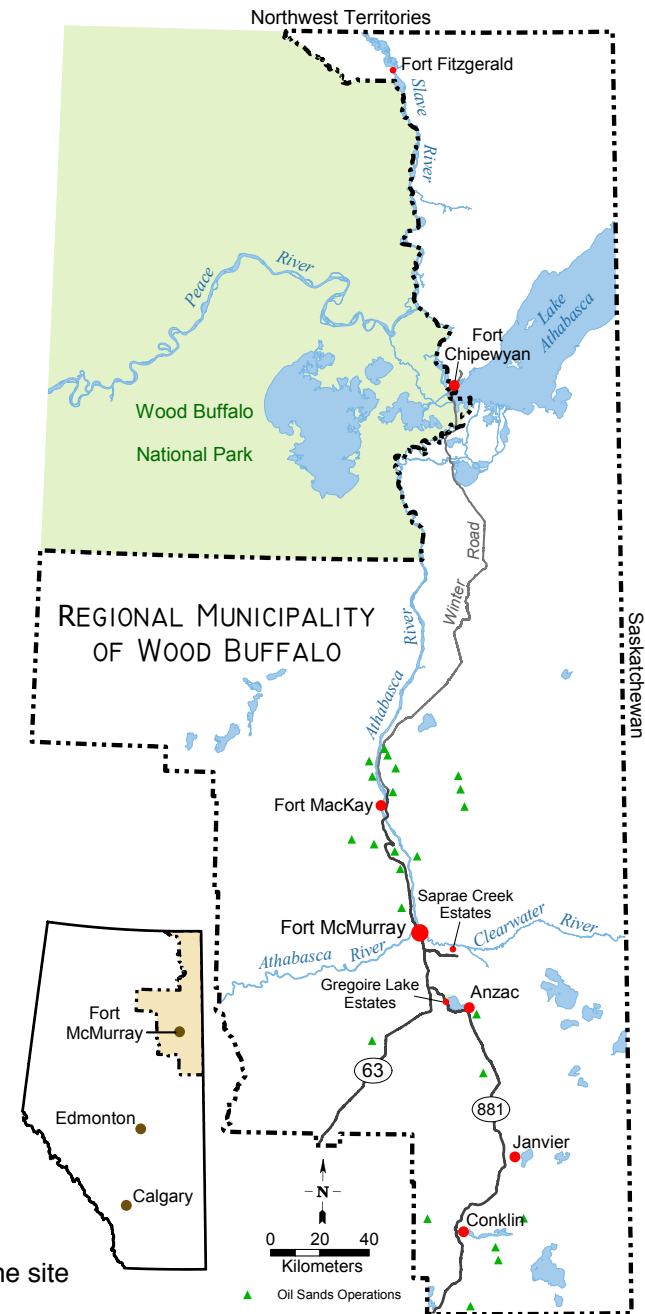
### QUICK FACT

The population of Fort McMurray increased by 6.1% from 2008 to 2010. The population of Fort McMurray is 76,797, with 4,434 new residents moving here since 2008. The total municipal population is now 104,338.

*Source: Regional Municipality of Wood Buffalo  
2010 Municipal Census, [woodbuffalo.ab.ca](http://woodbuffalo.ab.ca)*

#### Legend:

- Community
- ▲ Oil sands mine site



# MINING



Operating		Operations jobs at mine sites include: Heavy equipment operators, process operators/power engineers/plant operators, maintenance trades and technologists, engineers, technicians and technologists, occupational health and safety, planning, administration and management. Jobs such as security, janitorial and truck/bus driving are usually with contracted companies. <i>See the list of projects at the end of this document for contact information.</i>		
Company	Project	Phase	Operating since	Notes and links
Athabasca Oil Sands Project (Albian Sands Energy)	Muskeg River Mine	Existing Facilities	2002	Operated by Shell.
	Jackpine Mine‡	Phase 1A	2010/2011‡	Successful start-up announced Sept. 2010
Canadian Natural Resources Ltd.	Horizon Mine	Phase 1	2009	
Suncor Energy	Millennium Mine	Millenium Mine	1967	
		Steepbank Debottleneck	2007	
		Millennium Debottlenecking	2008	
		North Steepbank Extension	2010	
Syncrude	Mildred Lake & Aurora North Mines	Stages 1 and 2	1978	
		Stage 3 Expansion	2006	

‡ Indicates a status change since the previous quarterly report.

<b>On Hold</b>		Projects on hold are either suspended (construction had begun but is no longer under way) or withdrawn (construction was expected to begin but sanctioning decisions have been postponed by the project owner).			
<b>Company</b>	<b>Project</b>	<b>Phase</b>	<b>Projected start-up</b>	<b>Regulatory status</b>	<b>Notes and links</b>
Suncor Energy	Voyageur South	Phase 1	TBD	Application	Suncor's 2011 capital spending plan did not include restart of Voyageur South mine construction; however, the Voyageur Upgrader project construction will restart.

<b>Under Construction</b>		Construction jobs at mine sites are often with contractors, and not directly with the miner operator. Jobs include: Heavy equipment operators, construction trades, labourers, truck/bus drivers, engineers, technicians and technologists, occupational health and safety, administration and management. <i>See the list of projects at the end of this document for contact information.</i>			
<b>Company</b>	<b>Project</b>	<b>Phase</b>	<b>Start-up</b>	<b>Notes and links</b>	
Athabasca Oil Sands Project (Albian Sands Energy)	Jackpine Mine	Phase 1A	2010-2011	Operated by Shell. Mining operations started Sept. 2010; some construction still under way.	
Imperial Oil	Kearl Lake Mine	Phase 1	2012	Construction is over 25 per cent complete, and as of July 2010 includes piling, foundations and starter dike as well as off-site fabrication of pipe and vessels. Engineering work is largely complete. As of October 2010, there were approximately 2,500 workers on the project site.	
Suncor Energy	Fort Hills <sup>‡</sup>	Phase 1	2016 <sup>‡</sup>	Subject to sanction, Suncor and new project partner Total E&P will jointly develop Fort Hills with expected operational date in 2016.	
		Debottleneck	TDB		
‡ Indicates a status change since the previous quarterly report.					

<b>Proposed</b>		Proposed projects included in this report are projects which are active in previous phases and/or can reasonably be expected to start construction within two years. Prior to construction, significant engineering, exploration and regulatory activity may occur.			
<b>Company</b>	<b>Project</b>	<b>Phase</b>	<b>Projected start-up</b>	<b>Regulatory status*</b>	<b>Notes and links</b>
Athabasca Oil Sands Project	Jackpine Mine	Phase 1B	TBD	Approved	Shell has announced they will slow investment in oil sands in favour of conventional sources. Jackpine mine is also known as Albian Sands Energy. Both projects operated by Shell.
		Phase 2	TBD	Application	
	Muskeg River Mine	Expansion and debottlenecking	TBD	Approved	
Canadian Natural Resources Ltd.	Horizon Mine	Tranche 2	TBD	Approved	Tranche 2 engineering complete, procurement underway, site clearing complete. 2011 work to include regulatory requirements and previously approved reliability work for Tranche 2.
		Tranche 3	TBD	Approved	
		Tranche 4	TBD	Approved	
Imperial Oil	Kearl Lake Mine	Phase 2	TBD	Approved	Phase 1 construction started in 2009.
		Phase 3	TBD	Approved	
SilverBirch Energy / Teck Cominco‡	Frontier	Phase 1	TBD	Disclosure	Application expected to be filed in early 2011 for integrated Frontier/Equinox project (Equinox is satellite to Frontier). SilverBirch is new company formed by UTS Energy and Total E&P with 50 per cent stake in both projects.
		Phase 2	TBD	Disclosure	
		Equinox	TBD	Disclosure	
Synchrude	Aurora South	Stage 4 Expansion	TBD	Announced	
	Mildred Lake & Aurora North	Stage 3 Debottleneck	TBD	Announced	
Total E&P	Joslyn North Mine	Phases 1 & 2	2017-2018	Application	New partnership with Suncor Energy announced Dec. 2010. Subject to regulatory approval, sanctioning expected in 2012. Engineering under way.
	Joslyn South Mine	Phases 3 & 4	TBD	Announced	

\* Regulatory status definitions:  
**Approved:** Projects that have received regulatory approvals.  
**Application:** Projects that have filed applications that are being reviewed by regulatory agencies.  
**Disclosure:** Projects that have issued formal public disclosures but have not filed applications.  
**Announced:** Projects that have been announced but have not issued formal public disclosures  
‡ Indicates a status change since the previous quarterly report.

# IN-SITU



Operating		Operations jobs at in-situ sites include: Process operators/power engineers/plant operators, engineers, engineering technologists, occupational health and safety, maintenance trades and technologists, administration and management. <i>See the list of projects at the end of this document for contact information.</i>		
Company	Project	Phase	Operating since	Notes and links
Cenovus Energy	Christina Lake	Phase A	2002	Located south of Regional Municipality of Wood Buffalo boundaries.
		Phase B	2008	
	Foster Creek	Phases A/B/C	2001	
		Phases D/E	2009	
Connacher Oil and Gas	Great Divide	Pod 1	2007	Pod 2 commissioning complete.
		Pod 2 (Algar)	2010	
ConocoPhillips	Surmont	Phase 1	2007	Phase 2 sanctioned and under construction.
Devon Energy	Jackfish	Jackfish 1	2007	
E-T Energy	Poplar Creek	Pilot	2007	
JACOS	Hangingstone	Pilot	1999	
Laricina Energy	Saleski	Pilot carbonate demonstration	2010	Project is located outside RMWB boundaries.

Operating	Operations jobs at in-situ sites include: Process operators/power engineers/plant operators, engineers, engineering technologists, occupational health and safety, maintenance trades and technologists, administration and management. <i>See the list of projects at the end of this document for contact information.</i>			
Company	Project	Phase	Operating since	Notes and links
MEG Energy	Christina Lake	Phase 1	2008	
		Phase 2A	2009	
Nexen	Long Lake	Phase 1	2007	
Petrobank	Whitesands	Pilot	2006	THAI demonstration project.
Statoil Canada	Kai Kos Dehseh	Leismer Demonstration	2010	First steam Sept. 2010.
Suncor Energy	Firebag	Phase 1	2004	
		Phase 2	2006	
	Mackay River	Phase 1	2002	

Under Construction	Construction jobs at mine sites are often with contractors. Jobs include: Heavy equipment operators, construction trades, labourers, rig technicians, engineers, engineering technologists, occupational health and safety, administration and management. <i>See the list of projects at the end of this document for contact information.</i>			
Company	Project	Phase	Start-up	Notes and links
Cenovus Energy	Christina Lake	Phase C	2011	Phase C construction near completion. Phase D construction under way.
		Phase D	2013	
Canadian Natural Resources Ltd.	Kirby <sup>‡</sup>	Phase 1	2012	Sanctioned November 2010. Construction expected 2011-2013.
ConocoPhillips	Surmont	Phase 2	2015	Initial earthworks under way.
Devon Energy	Jackfish	Phase 2	2011	Construction over 90 per cent complete. Start-up anticipated Q2 2011.
Harvest Operations <sup>‡</sup>	BlackGold	Phase 1	2012 <sup>‡</sup>	Groundbreaking ceremony October 2010. Asset acquired from KNOC.
Husky Energy	Sunrise <sup>‡</sup>	Phase 1	2014	Project sanctioned Nov. 2010.
Suncor Energy	Firebag	Phase 3	2011	Expect Phase 3 construction to be complete 2011 Q2; efforts will then shift to Phase 4.
		Phase 4	2013 <sup>‡</sup>	

Proposed					
Proposed projects included in this report are projects which are active in previous phases and/or can reasonably be expected to start construction within two years. Prior to construction, significant engineering, exploration, planning and regulatory activity may occur.					
Company	Project	Phase	Projected start-up	Regulatory status*	Notes and links
Alberta Oilsands	Clearwater West	Pilot	2011	Application	
		Commercial Project <sup>‡</sup>	2012	Announced	
Athabasca Oil Sands Corp.	MacKay	Phase 1	2014	Application	Commercial development in early stages.
	Dover	Phase 1	2015	Application <sup>‡</sup>	AOSC has submitted applications for experimental testing in Dover West.
	Hangingstone	Pilot	2011	Application	Acquired from Excelsior Energy.
BlackPearl	Blackrod	Pilot	2011	Approved <sup>‡</sup>	Regulatory approval received Oct. 2010. Design & engineering work ongoing.
Canadian Natural Resources Ltd.	Grouse	Phase 1	2016 <sup>‡</sup>	Announced	
Cenovus Energy	Christina Lake	Phase 1E	2014	Approved <sup>‡</sup>	Engineering for Phase E and preliminary site preparation for Phase F expected in 2011.
		Phase 1F	2016	Application	
		Phase 1G	2017 <sup>‡</sup>	Application	
	Foster Creek	Phase 1F	2014	Approved <sup>‡</sup>	Project is located south of RMWB. Procurement and site preparation under way.
		Phase 1G	2016 <sup>‡</sup>	Approved <sup>‡</sup>	
	Narrows Lake	Phases A-C	2016 <sup>‡</sup>	Application	
Grand Rapids	Phase A	2017	Announced	Pilot project well pair under way.	
Connacher Oil and Gas	Great Divide	Expansion	2013	Application <sup>‡</sup>	
Devon Energy	Jackfish	Phase 3	2015 <sup>‡</sup>	Application <sup>‡</sup>	Regulatory application filed.
<p>* Regulatory status definitions:  <b>Approved:</b> Projects that have received regulatory approvals.  <b>Application:</b> Projects that have filed applications that are being reviewed by regulatory agencies.  <b>Disclosure:</b> Projects that have issued formal public disclosures but have not filed applications.  <b>Announced:</b> Projects that have been announced but have not issued formal public disclosures  <sup>‡</sup> Indicates a status change since the previous quarterly report.</p>					

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Company	Project	Phase	Projected start-up	Regulatory status*	Notes and links
E-T Energy	Poplar Creek	Pilot	2012‡	Application	
Grizzly Oil Sands	Algar Lake	Phase 1	2013‡	Application	Engineering and procurement awarded.
		Phase 2	2013‡	Application	
Harvest Operations	BlackGold	Phase 2	TBD	Application	Acquired from KNOC. Ground broken on Phase 1.
Husky Energy	Sunrise	Phase 2	TBD	Approved	Phase 1 sanctioned Nov. 2010 and under construction.
		Phase 3	TBD	Approved	
	McMullen	Pilot	TBD	Application	
Ivanhoe Energy	Tamarack	SAGD Pilot	2014	Application‡	Application submitted Nov. 2010.
JACOS (Japan Canada Oil Sands)	Hangingstone	Phase 1	TBD	Application	
Laricina Energy	Germain	SAGD Pilot	2012	Approved	Project is located west of RMWB boundaries.
		Phase 1	2015‡	Announced	
	Saleski	Phase 1	2013‡	Approved	Construction of the Pilot is well under way. Project is located west RMWB boundaries.
MEG Energy	Christina Lake	Phase 2B	2013‡	Approved	Construction expected in 2011.
		Phases 3A/3B‡	TBD	Application	
Nexen	Long Lake	Phase 2	TBD	Announced	
		Phases 3-4	TBD	Announced	
	Long Lake South	Phases 1 and 2	TBD	Approved	
<p>* Regulatory status definitions:  <b>Approved:</b> Projects that have received regulatory approvals.  <b>Application:</b> Projects that have filed applications that are being reviewed by regulatory agencies.  <b>Disclosure:</b> Projects that have issued formal public disclosures but have not filed applications.  <b>Announced:</b> Projects that have been announced but have not issues formal public disclosures  ‡ Indicates a status change since the previous quarterly report.</p>					

Proposed					
Proposed projects included in this report are projects which are active in previous phases and/or can reasonably be expected to start construction within two years. Prior to construction, significant engineering, exploration, planning and regulatory activity may occur.					
Company	Project	Phase	Projected start-up	Regulatory status*	Notes and links
Petrobank	May River	Phase 1	2012	Application	Engineering, procurement and construction management contracts awarded.
	Whitesands	Expansion	TBD	Approved	Expansion on hold.
Southern Pacific Resource	STP-McKay	Phase 1	2012	Approved‡	Approval received October 2010.
Statoil Canada	Kai Kos Dehseh (Leismer)	Commercial	2012-2014	Application	Demonstration operating as of Sept. 2010.
		Expansion	TBD	Application	
	Kai Kos Dehseh	Corner	TBD	Application	
		Thornbury	TBD	Application	
Suncor Energy	Firebag	Phase 5	2018‡	Approved	Phases 3 and 4 under construction.
		Phase 6	2019‡	Approved	
	Mackay River	Phase 2	2016‡	Approved	Development will restart in 2011.
Sunshine Oilsands Corp.	Harper	CSS Pilot	2010	Approved	Construction start is imminent.
	West Ells‡	Phase 1	2012	Application	Construction to begin in 2011.
		Phase 2	2013	Announced	
Total E&P	Joslyn	Phases 1 and 2	-	Suspended	Total is determining status of this lease.
		Phases 3a/3b	-	Withdrawn	
Value Creation	Terre de Grace	Pilot	TBD	Approved‡	
		Phase 1 & 2	TBD	Announced	
	TriStar	Pilot	TBD	Application	Application submitted June 2010 for combined in-situ pilot and upgrader pilot.
<p>* Regulatory status definitions:  <b>Approved:</b> Projects that have received regulatory approvals.  <b>Application:</b> Projects that have filed applications that are being reviewed by regulatory agencies.  <b>Disclosure:</b> Projects that have issued formal public disclosures but have not filed applications.  <b>Announced:</b> Projects that have been announced but have not issued formal public disclosures  ‡ Indicates a status change since the previous quarterly report.</p>					

# UPGRADERS



Operating	Operations jobs at upgraders include: Process operators/power engineers/plant operators, engineers, technicians and technologists, occupational health and safety, maintenance trades and technologists, administration and management. <i>See the list of projects at the end of this document for contact information.</i>			
Company	Project	Phase	Operating since	Notes and links
Canadian Natural Resources Ltd.	Horizon Upgrader	Phase 1	2008	
Nexen	Long Lake Upgrader	Phase 1	2008	
Suncor Energy	Base	U1 and U2	1967	
	Millennium	Vacuum Unit	2005	
		Coker Unit	2008	
Syncrude	Mildred Lake Upgrader	Stages 1 and 2	1978	
		Stage 3 Expansion	2006	

<b>Proposed</b>		Proposed projects included in this report are projects which are active in previous phases and/or can reasonably be expected to start construction within two years. Prior to construction, significant engineering, planning and regulatory activity may occur.			
<b>Company</b>	<b>Project</b>	<b>Phase</b>	<b>Projected start-up</b>	<b>Regulatory status</b>	<b>Notes and links</b>
Canadian Natural Resources Ltd.	Horizon Upgrader	Phases 2 and 3	TBD	Approved	Expect to produce cost estimates by 2011.
Nexen	Long Lake Upgrader	Phase 2	TBD	Approved	
		Phases 3-6	TBD	Announced	
Suncor Energy	Voyageur Upgrader	Phase 1	2016 <sup>‡</sup>	Suspended	Subject to sanctioning, construction on Voyageur Upgrader will resume in 2011 with new partner Total E&P.
		Phase 2	TBD	Approved	
Syn crude	Mildred Lake Upgrader	Stage 3 debottleneck	TBD	Announced	
		Stage 4 Expansion	TBD	Announced	
Value Creation	Terre de Grace Upgrader	Phases 1-2	TBD	Application <sup>‡</sup>	
	TriStar	Upgrading Pilot Project	TBD	Application	Application filed June 2010 for SAGD Pilot integrated with Upgrading Pilot.
<p>* Regulatory status definitions:  <b>Approved:</b> Projects that have received regulatory approvals.  <b>Application:</b> Projects that have filed applications that are being reviewed by regulatory agencies.  <b>Disclosure:</b> Projects that have issued formal public disclosures but have not filed applications.  <b>Announced:</b> Projects that have been announced but have not issued formal public disclosures  <sup>‡</sup> Indicates a status change since the previous quarterly report.</p>					

# Contact Information

The following tables provide contact information for oil sands companies listed in this report. Where available, specific links to projects, career pages or contractor information are included (blue text).

For links to construction companies operating in the area, see [woodbuffalo.net/linksEMPL7NOC.html](http://woodbuffalo.net/linksEMPL7NOC.html).

Project Contact Information				
Company	Projects	Main website	Careers/Jobs	Contractors
Alberta Oilsands	<a href="#">Clearwater West</a>	<a href="http://aboilsands.ca">aboilsands.ca</a>		
Athabasca Oil Sands Corp.	<a href="#">MacKay</a> <a href="#">Dover</a> <a href="#">Hangingstone</a>	<a href="http://aosc.com">aosc.com</a>	<a href="#">Careers</a>	
Athabasca Oil Sands Project (Shell, Albian Sands Energy)	<a href="#">Jackpine Mine</a> <a href="#">Muskeg River Mine</a>	<a href="http://shell.ca">shell.ca</a>	<a href="http://shell.ca/careers">shell.ca/careers</a>	<a href="#">Contracting and Procurement for AOSP</a>
BlackPearl	<a href="#">Blackrod</a>	<a href="http://blackpearlresources.ca">blackpearlresources.ca</a>	<a href="#">Careers</a>	
Canadian Natural Resources Ltd.	<a href="#">Horizon Mine and upgrader</a> <a href="#">Grouse</a> <a href="#">Kirby</a>	<a href="http://cnrl.com">cnrl.com</a>	All jobs: <a href="http://cnrl.com/careers">cnrl.com/careers</a> In-situ oil sands jobs Horizon oil sands jobs	<a href="#">Horizon contracting opportunities</a>
Cenovus Energy	<a href="#">Christina Lake</a> <a href="#">Foster Creek</a> <a href="#">Narrows Lake</a> <a href="#">Grand Rapids</a>	<a href="http://cenovus.com">cenovus.com</a>	<a href="#">Careers</a>	<a href="#">Contractors</a>
Connacher Oil and Gas	<a href="#">Great Divide</a>	<a href="http://connacheroil.com">connacheroil.com</a>	<a href="#">Careers</a>	
ConocoPhillips	<a href="#">Surmont</a>	<a href="http://conocophillips.ca">conocophillips.ca</a>	<a href="#">Careers</a>	<a href="#">Vendor Relations</a>
Devon Energy	<a href="#">Jackfish</a>	<a href="http://devonenergy.com">devonenergy.com</a>	<a href="#">Careers</a>	
E-T Energy	<a href="#">Poplar Creek</a>	<a href="http://e-tenergy.com">e-tenergy.com</a>	<a href="#">Employment</a>	

Project Contact Information				
Company	Projects	Main website	Careers/Jobs	Contractors
Grizzly Oil Sands	Algar Lake	<a href="http://grizzlyoilsands.com">grizzlyoilsands.com</a>		
Harvest Operations Corp.	BlackGold	<a href="http://harvestenergy.ca">harvestenergy.ca</a>	<a href="http://harvestenergy.ca/careers">harvestenergy.ca/careers</a>	
Husky Energy	Sunrise McMullen	<a href="http://huskyenergy.ca">huskyenergy.ca</a>	<a href="http://huskyenergy.com/careers">huskyenergy.com/careers</a>	Business opportunities
Imperial Oil	Kearl Lake Mine	<a href="http://imperialoil.ca">imperialoil.ca</a>	Careers	
Ivanhoe Energy	Tamarack	<a href="http://ivanhoe-energy.com">ivanhoe-energy.com</a>	Careers	
JACOS (Japan Canada Oil Sands)	Hangingstone	<a href="http://jacos.com">jacos.com</a>	Careers	Services and supplies
Laricina Energy	Germain Saleski	<a href="http://laricinaenergy.com">laricinaenergy.com</a>	<a href="http://laricinaenergy.com/careers">laricinaenergy.com/careers</a>	
MEG Energy	Christina Lake	<a href="http://megenergy.com">megenergy.com</a>	Careers	Opportunities
Nexen	Long Lake Long Lake South Long Lake Upgrader	<a href="http://nexeninc.com">nexeninc.com</a> or <a href="http://longlake.ca">longlake.ca</a>	Careers	
Petrobank	May River Whitesands	<a href="http://petrobank.com">petrobank.com</a>	Careers	
SilverBirch Energy	Frontier Equinox	<a href="http://silverbirchenergy.com">silverbirchenergy.com</a>	Careers	
Southern Pacific Resource	STP-McKay ( <a href="#">map</a> )	<a href="http://shpacific.com">shpacific.com</a>	Careers	
Statoil Canada	Kai Kos Dehseh (Corner) Kai Kos Dehseh ( <a href="#">Leismer</a> )	<a href="http://statoil.com">statoil.com</a>	Careers	Procurement
Suncor Energy	Base Upgrader Mining (Millennium Mine, Voyageur South, Fort Hills) In-situ (Firebag, Mackay River)	<a href="http://suncor.com">suncor.com</a>	<a href="http://suncor.com/careers">suncor.com/careers</a>	Working with us
Sunshine Oilsands Corp.	Harper West Ells	<a href="http://sunshineoilsands.com">sunshineoilsands.com</a>	Careers	

<b>Project Contact Information</b>				
<b>Company</b>	<b>Projects</b>	<b>Main website</b>	<b>Careers/Jobs</b>	<b>Contractors</b>
Syncrude	Mildred Lake & Aurora North Aurora South Upgrader	<a href="http://syncrude.ca">syncrude.ca</a>	<a href="http://syncrude.ca/careers">syncrude.ca/careers</a>	Procurement
Total E&P	Joslyn North Mine Joslyn In-Situ Joslyn South Mine	<a href="http://total-ep-canada.com">total-ep-canada.com</a>	Careers	Community Engagement
Value Creation	Terre de Grace TriStar	<a href="http://vctek.com">vctek.com</a>	Careers	