



Clouds of Uncertainty

COAA Forecast Presentation 2016

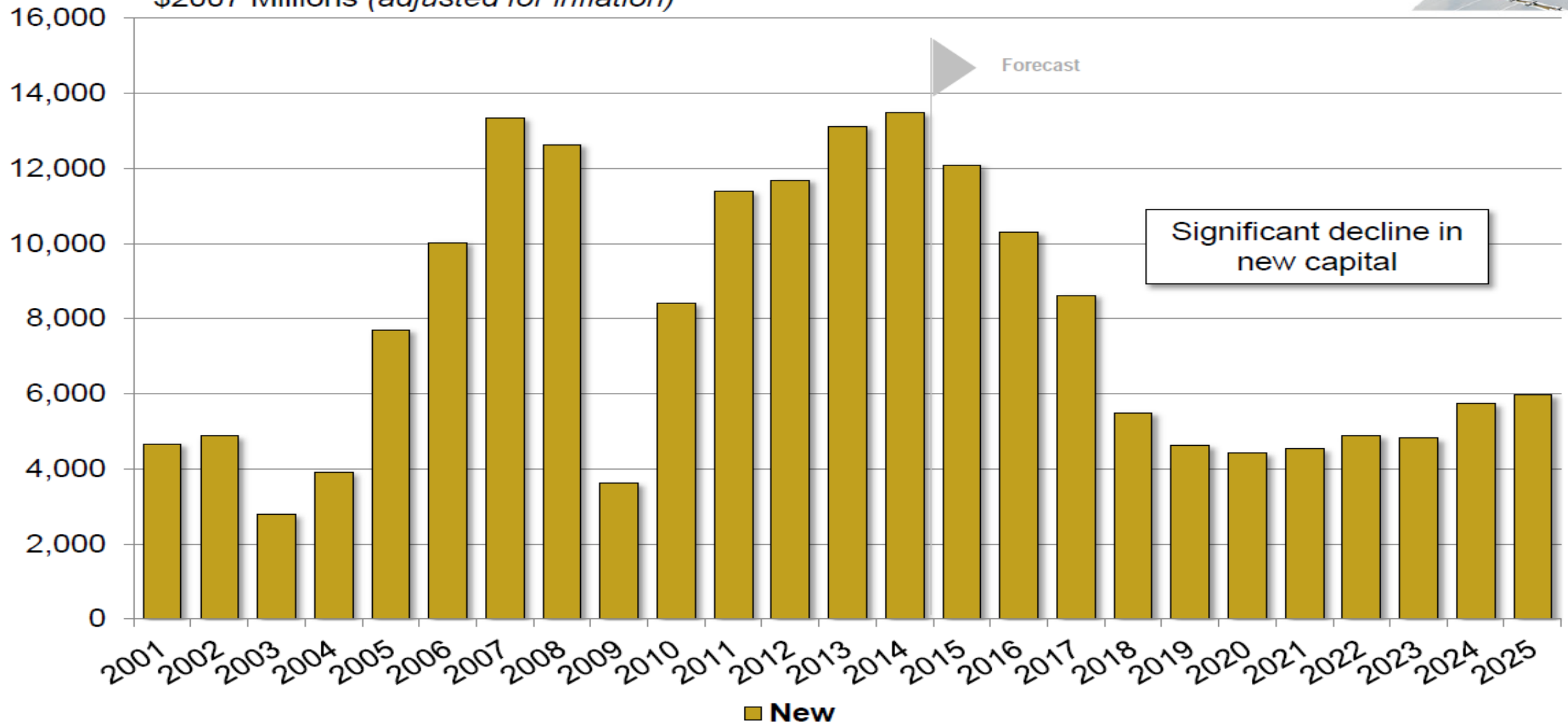
www.getFLOWIE.com

ORBO

Alberta Oil Sands Investment*



\$2007 Millions (adjusted for inflation)



Significant decline in new capital

Forecast

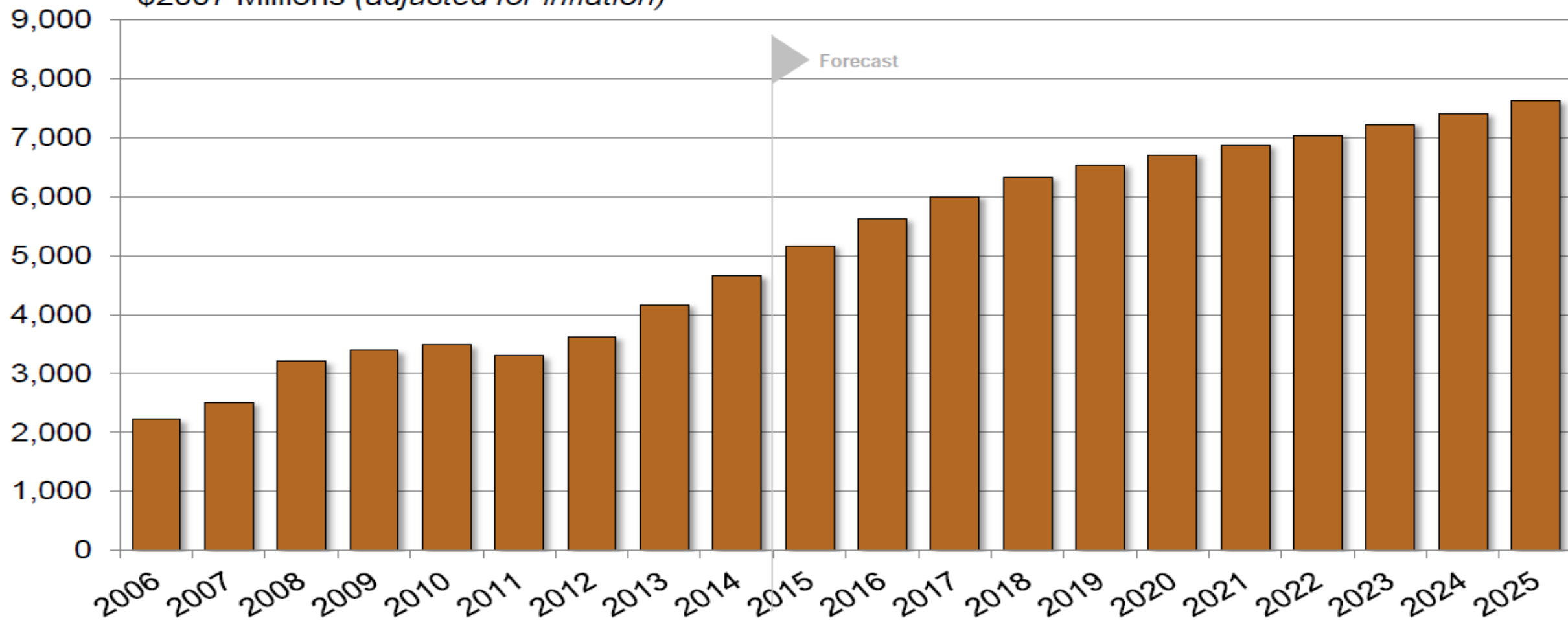
■ New

* Includes construction and machinery & equipment

Alberta oil & gas maintenance and repair expenditures * (preliminary)



\$2007 Millions (adjusted for inflation)



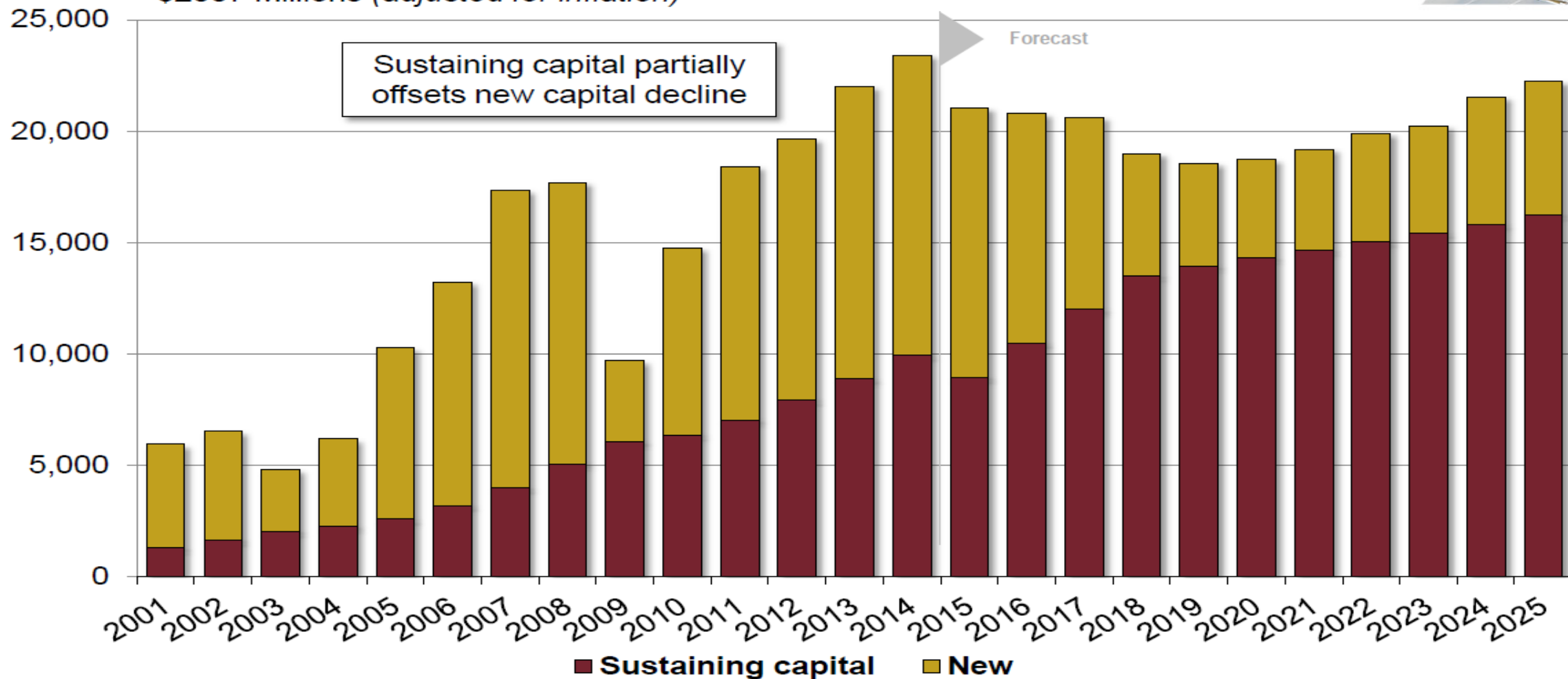
* Includes construction and machinery & equipment

Maintenance refers to the process of maintaining equipment including: routine or on-stream work that typically does not require operations/production to shut down; and turnarounds, shutdowns or outages in which the operating unit is taken out of production.

Alberta Oil Sands Investment*



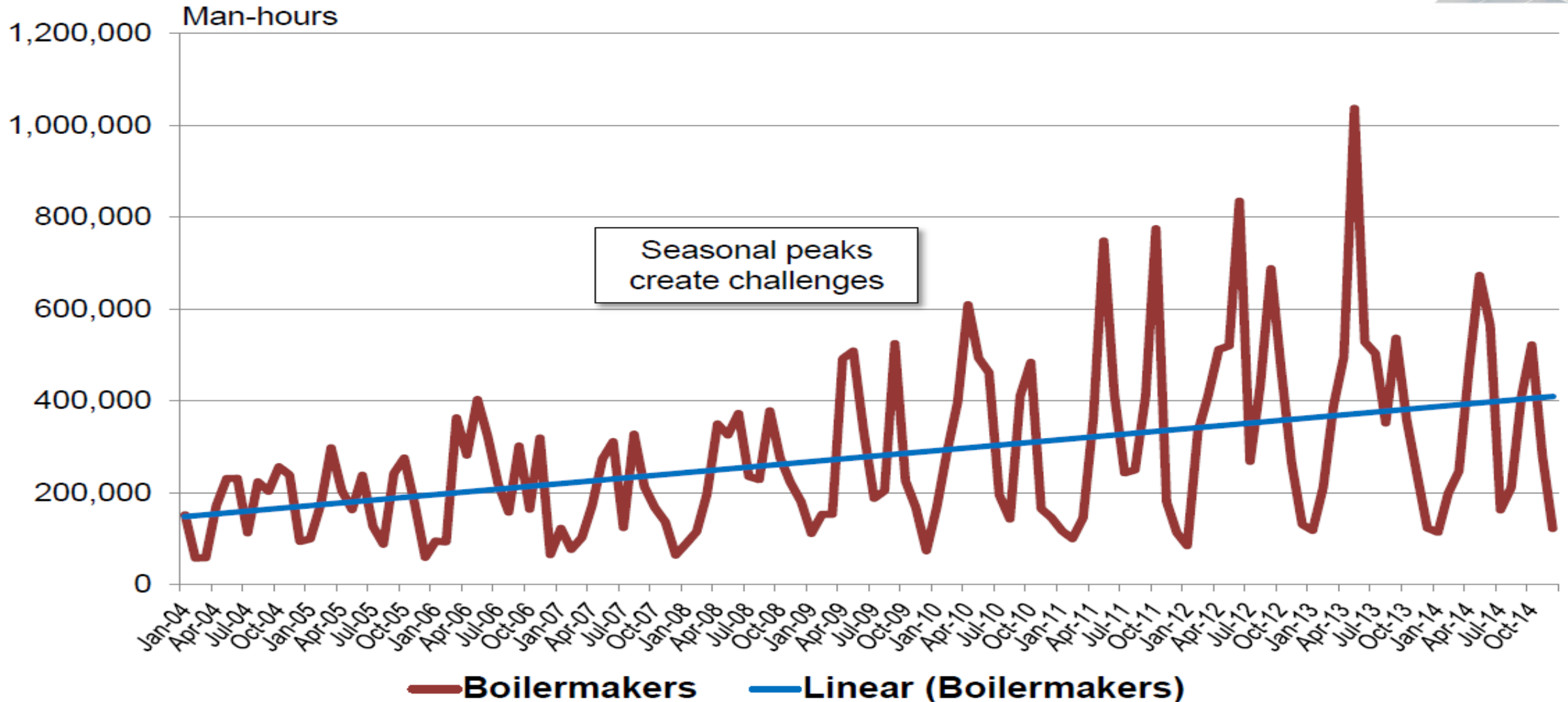
\$2007 Millions (adjusted for inflation)



* Includes construction and machinery & equipment

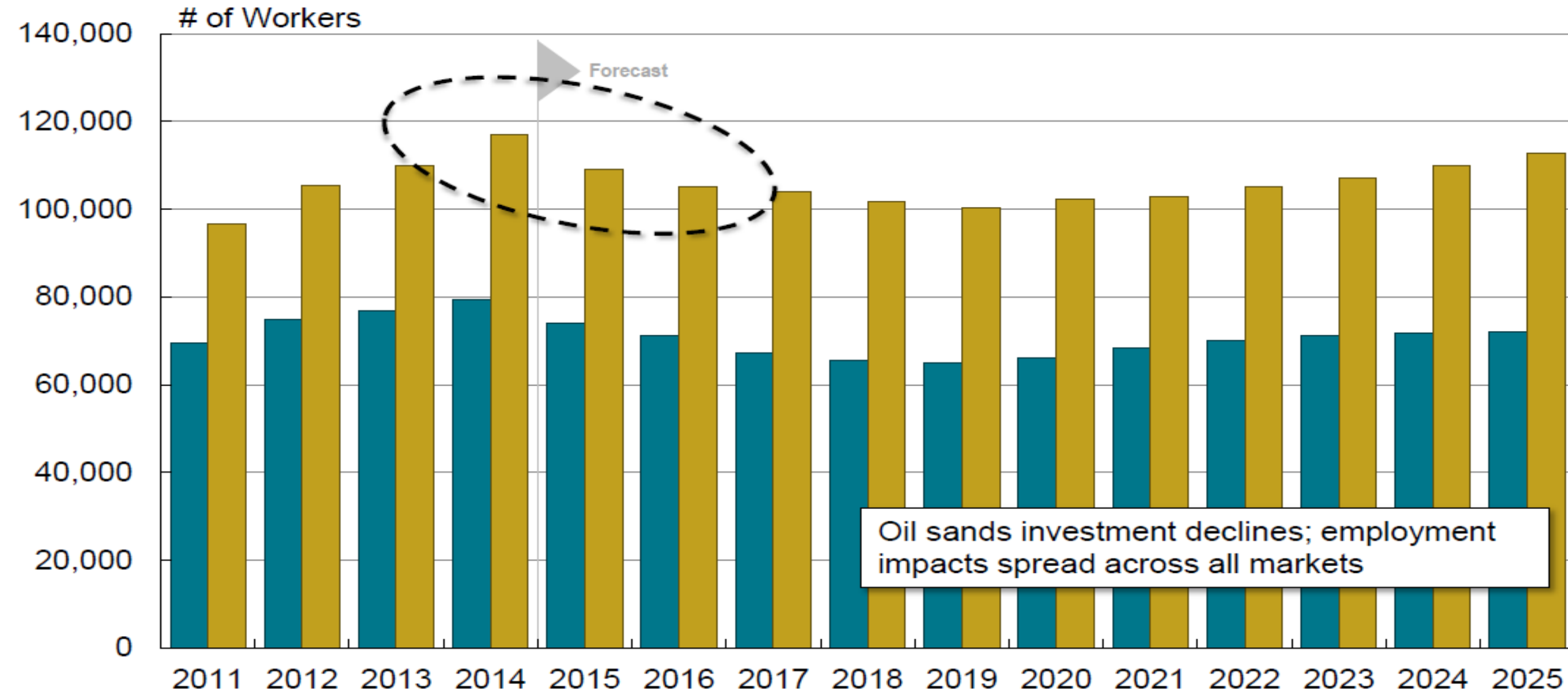
Sustaining capital refers to the periodic addition (or replacement) of capital, which is required to maintain operations at existing levels.

Union maintenance work hours Alberta



Source: General Presidents' Maintenance Committee for Canada; National Maintenance Council for Canada

Construction Employment - Alberta

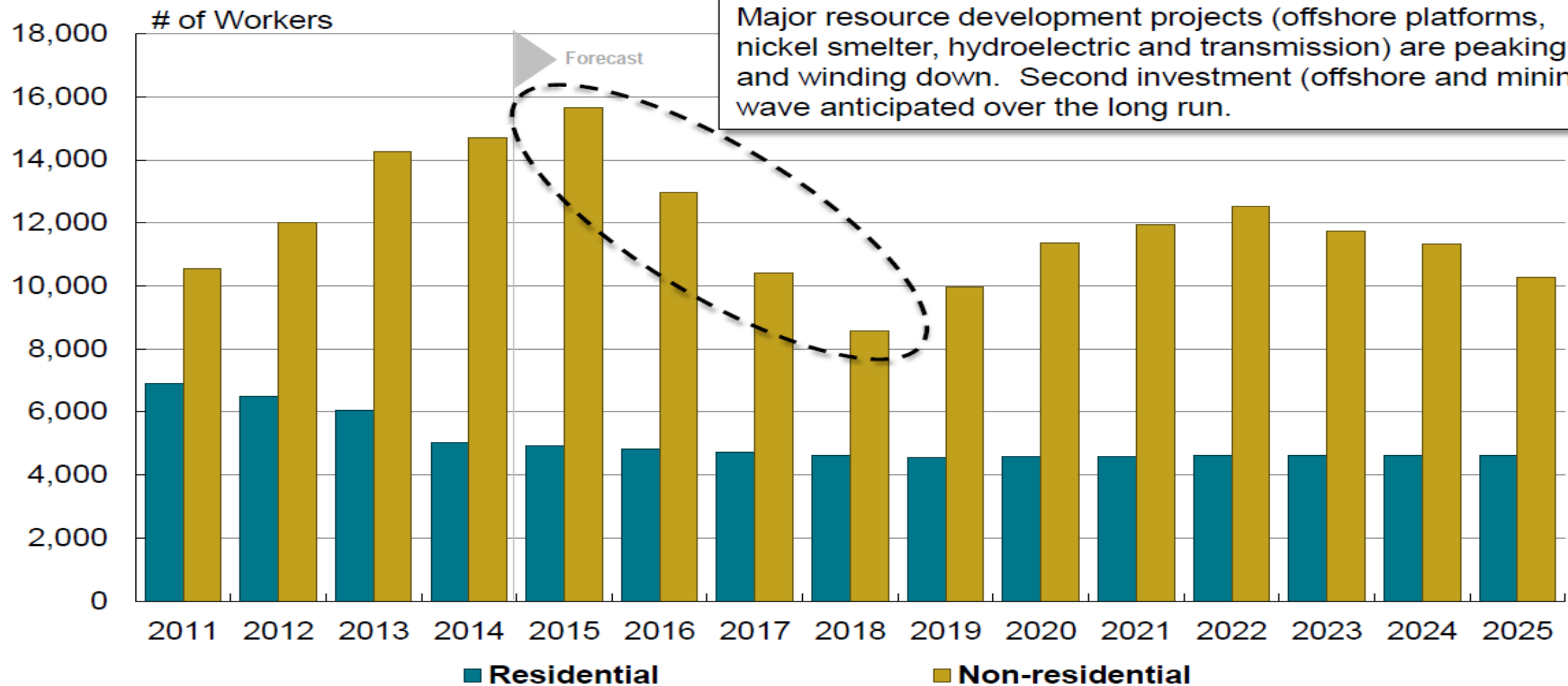


Construction employment Newfoundland and Labrador

Non-Res Market Conditions:

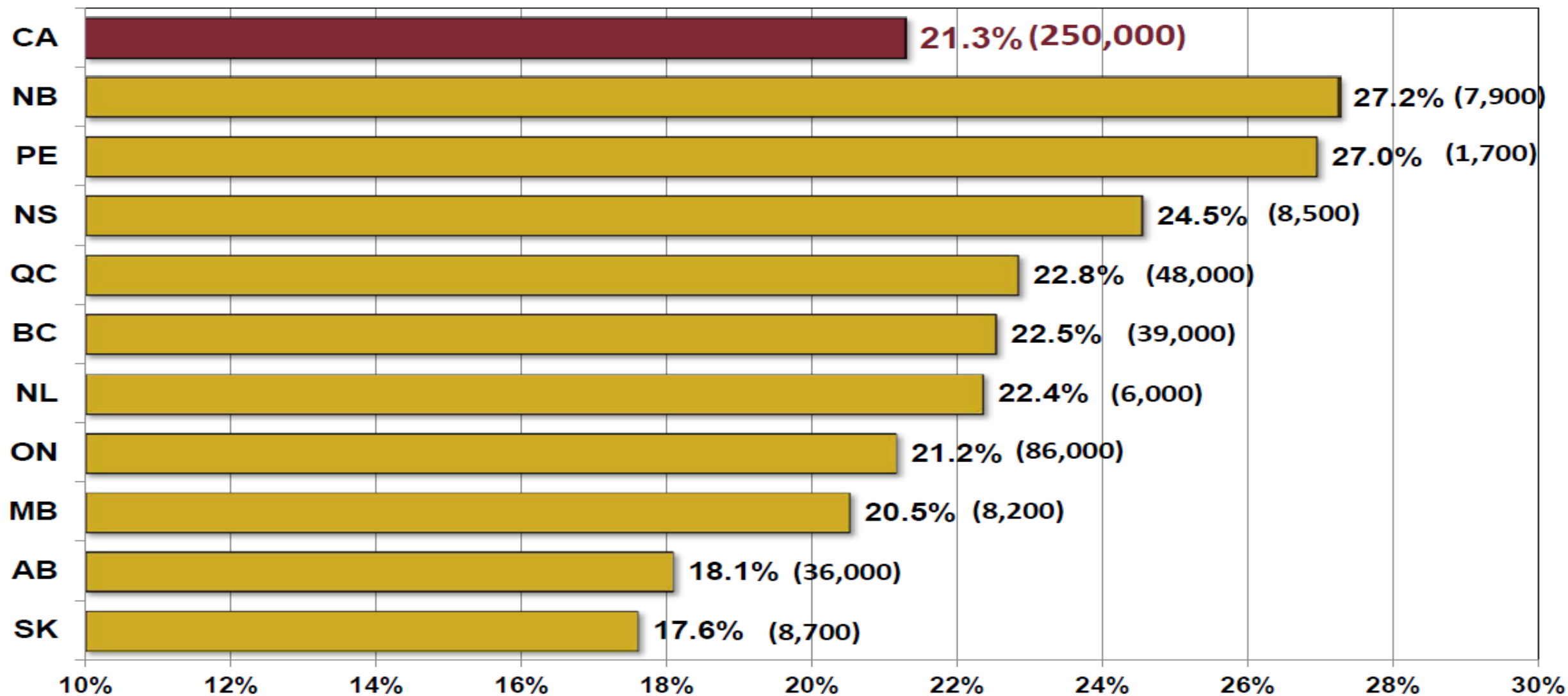


Res Market Conditions:

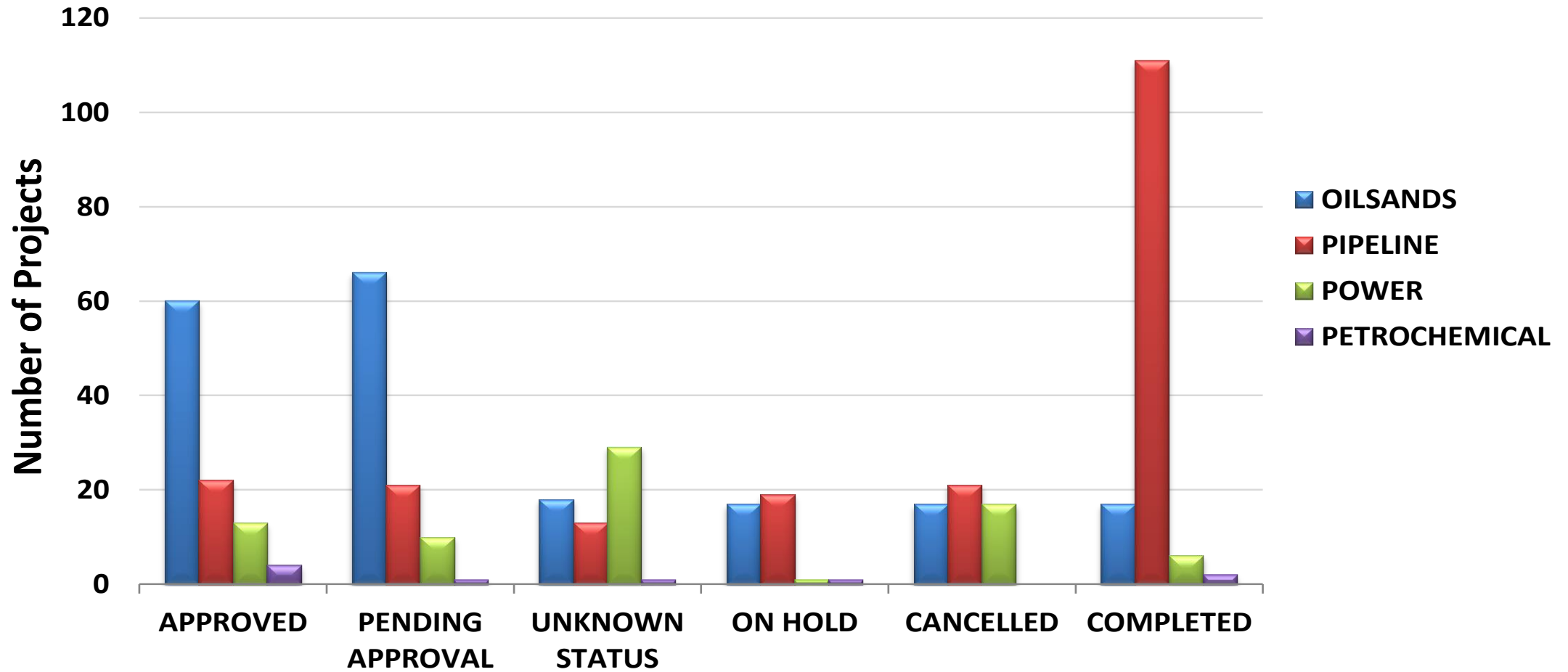


Replacement demand....

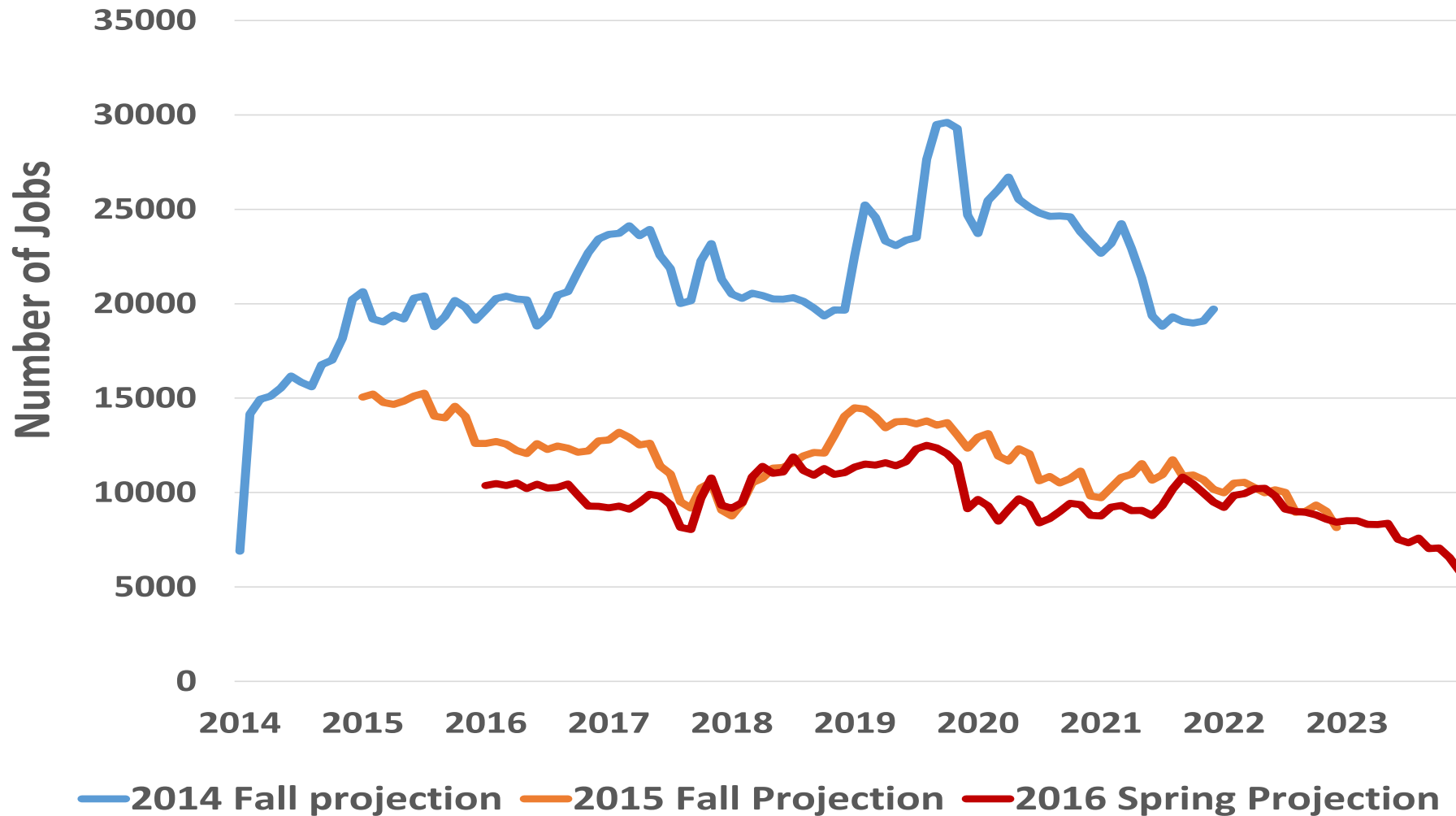
Next Decade: Cumulative Retirements as a % of 2015
Labour Force



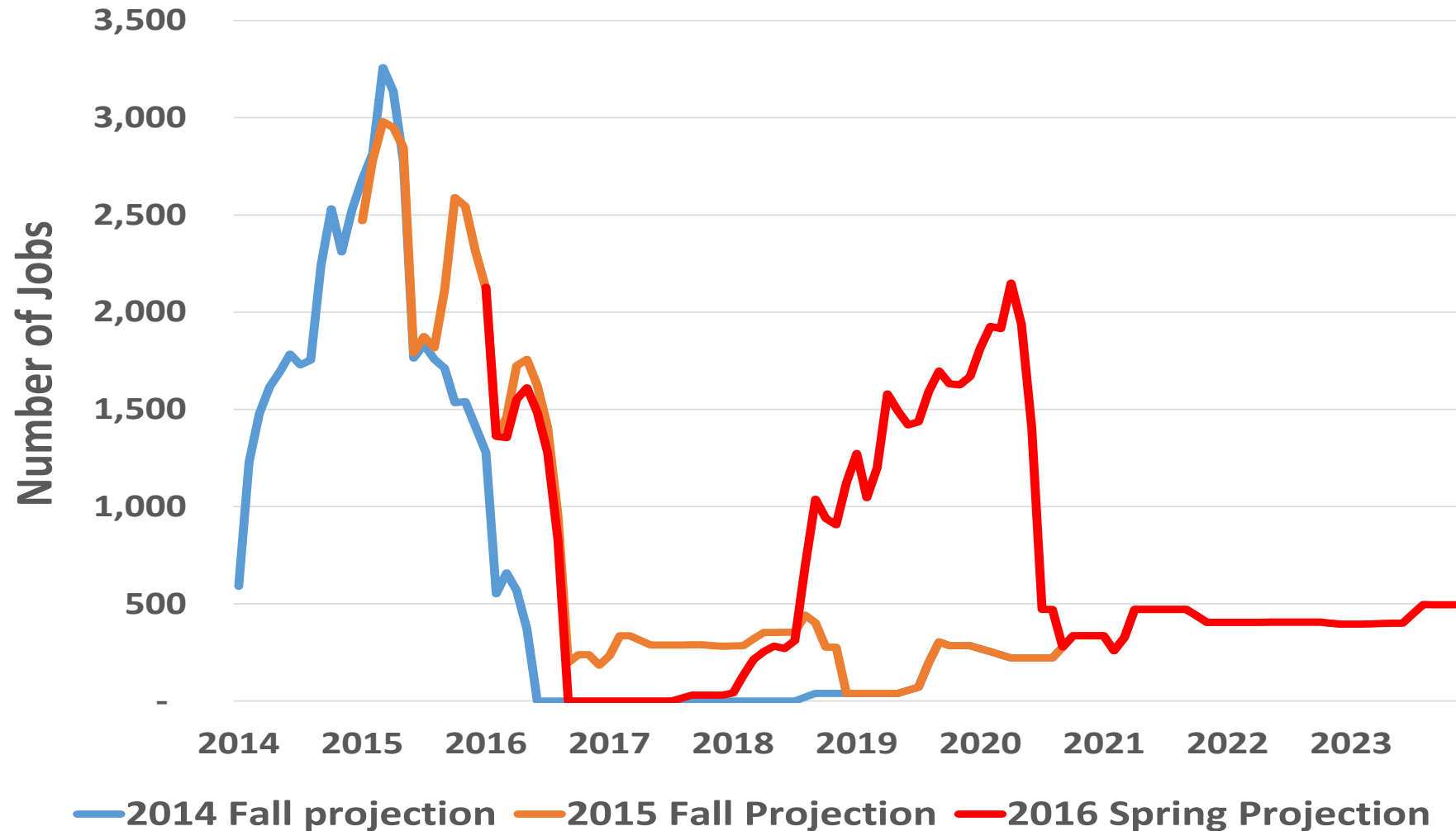
REGULATORY STATUS AND CONSTRUCTION PLAN



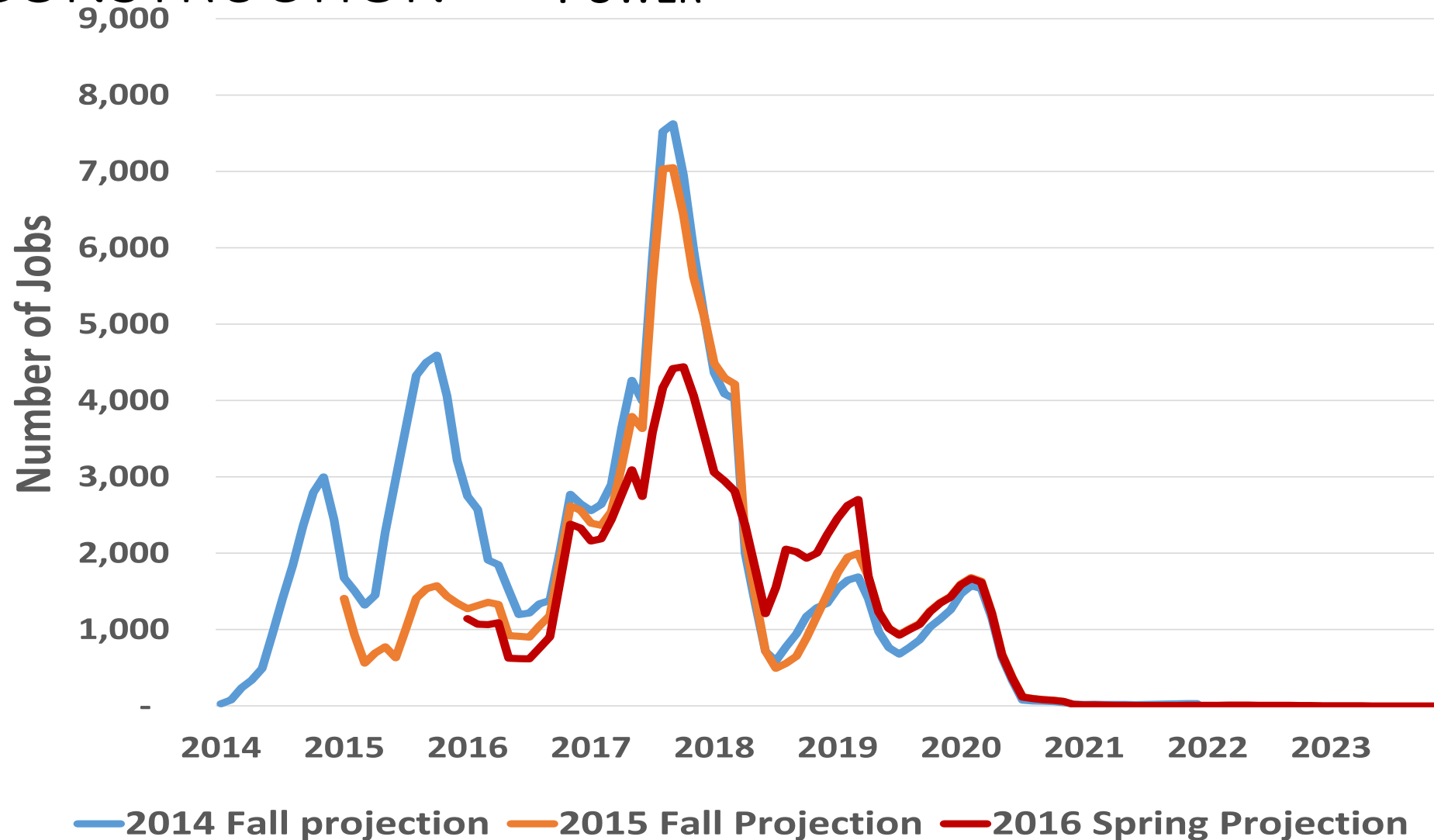
ON-SITE WORKFORCE NUMBERS FOR PLANNED NEW CONSTRUCTION — OIL SANDS



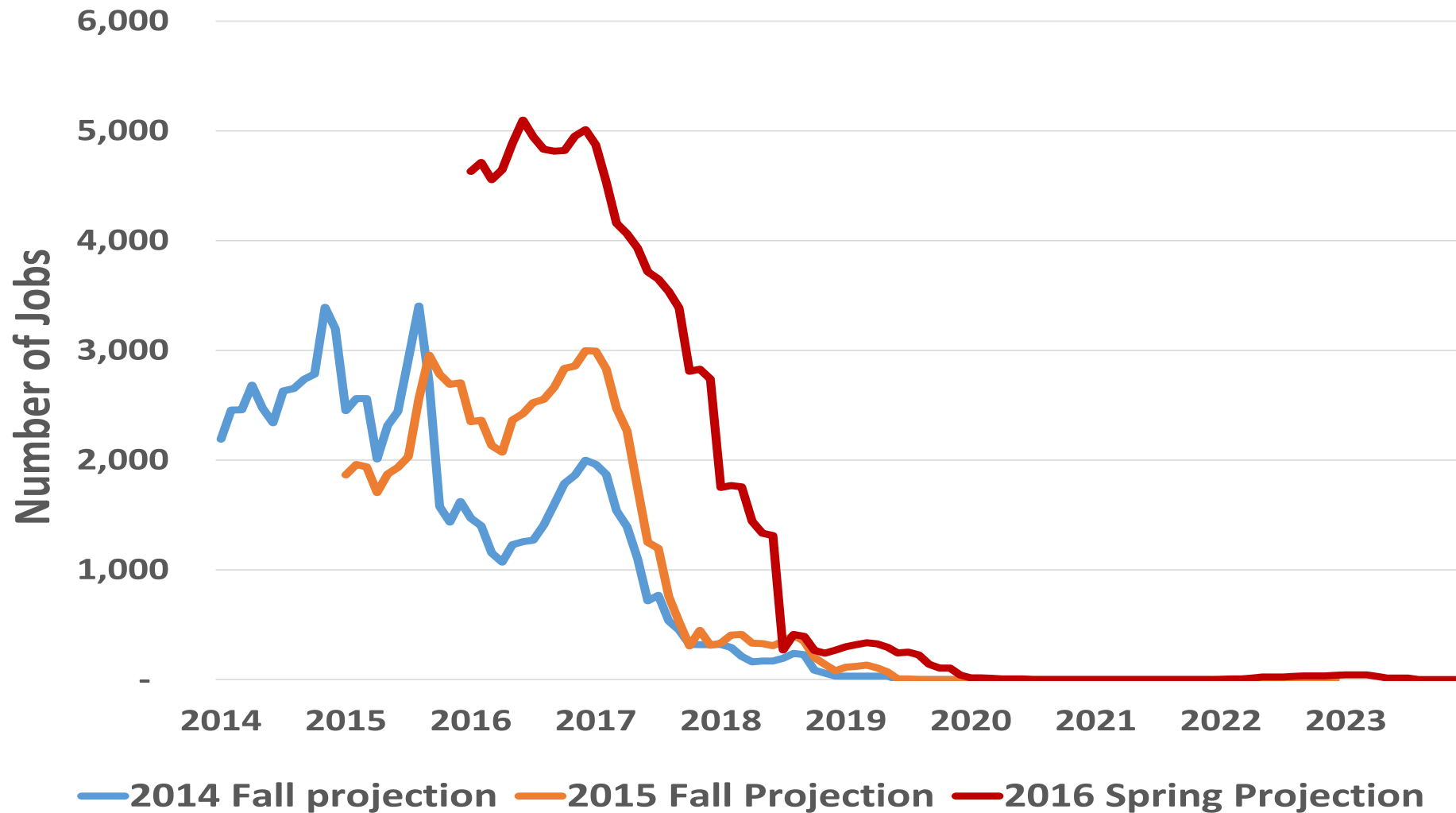
ON-SITE WORKFORCE NUMBERS FOR PLANNED NEW CONSTRUCTION — PETROCHEMICAL



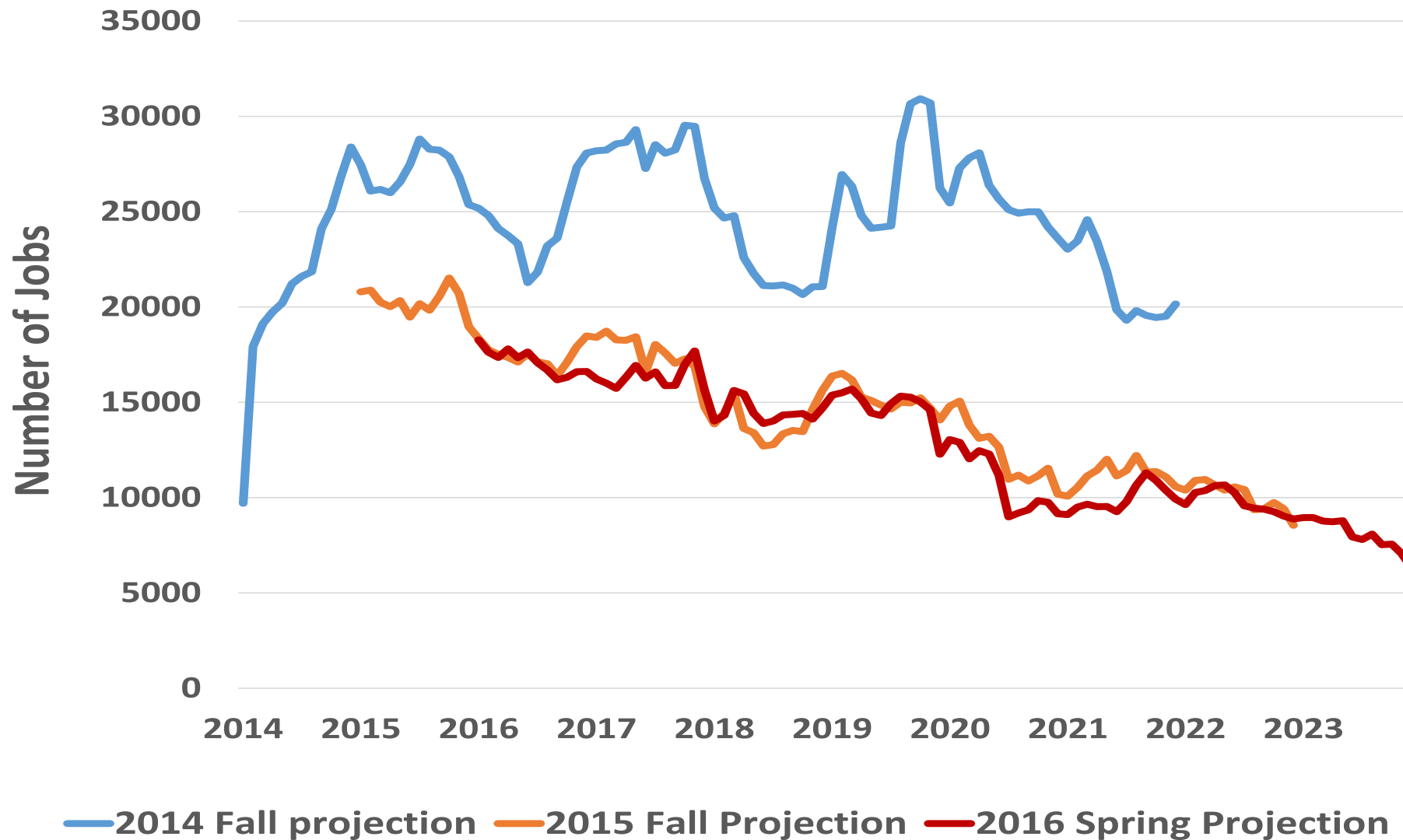
ON-SITE WORKFORCE NUMBERS FOR PLANNED NEW CONSTRUCTION — POWER



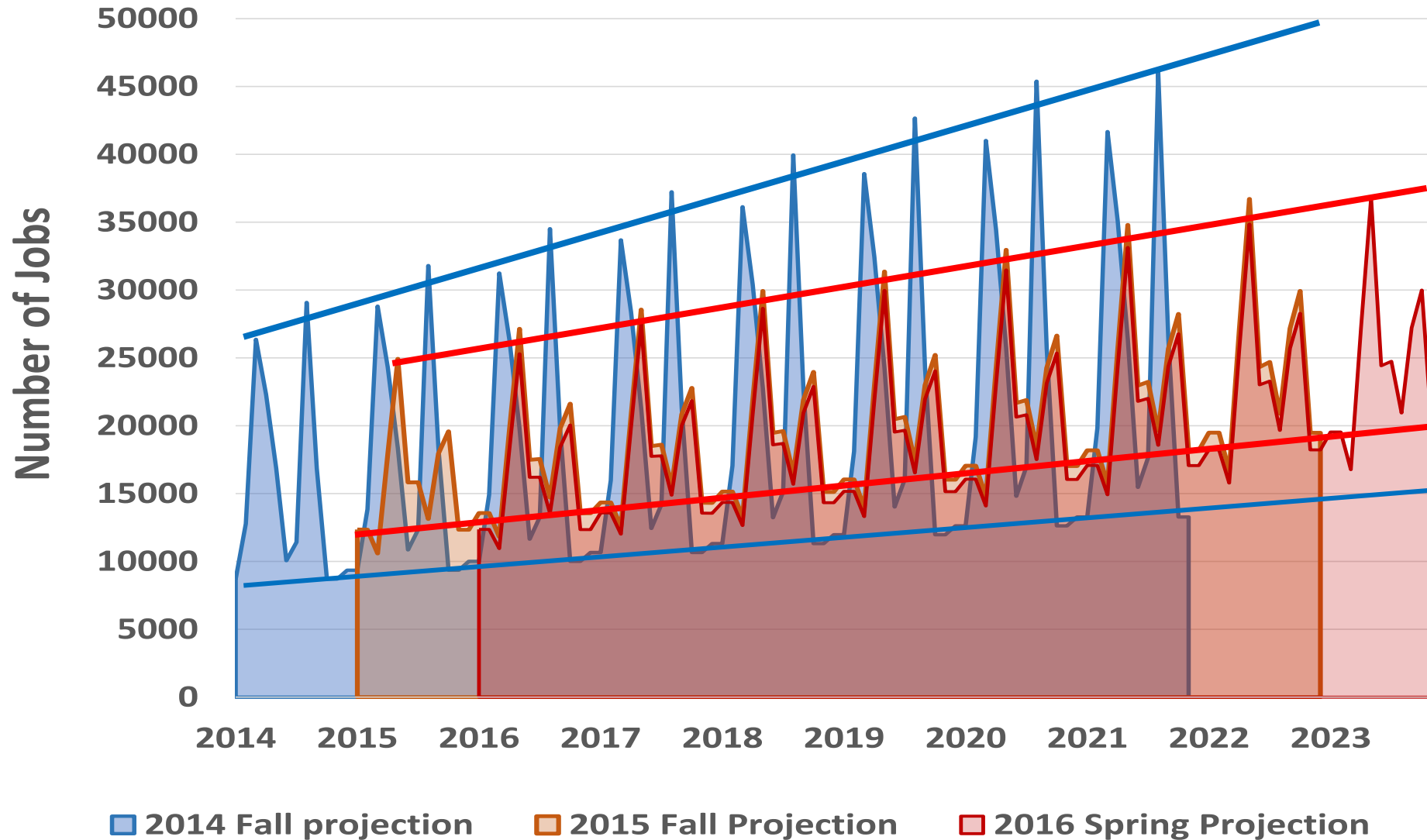
ON-SITE WORKFORCE NUMBERS FOR PLANNED NEW CONSTRUCTION — PIPELINE



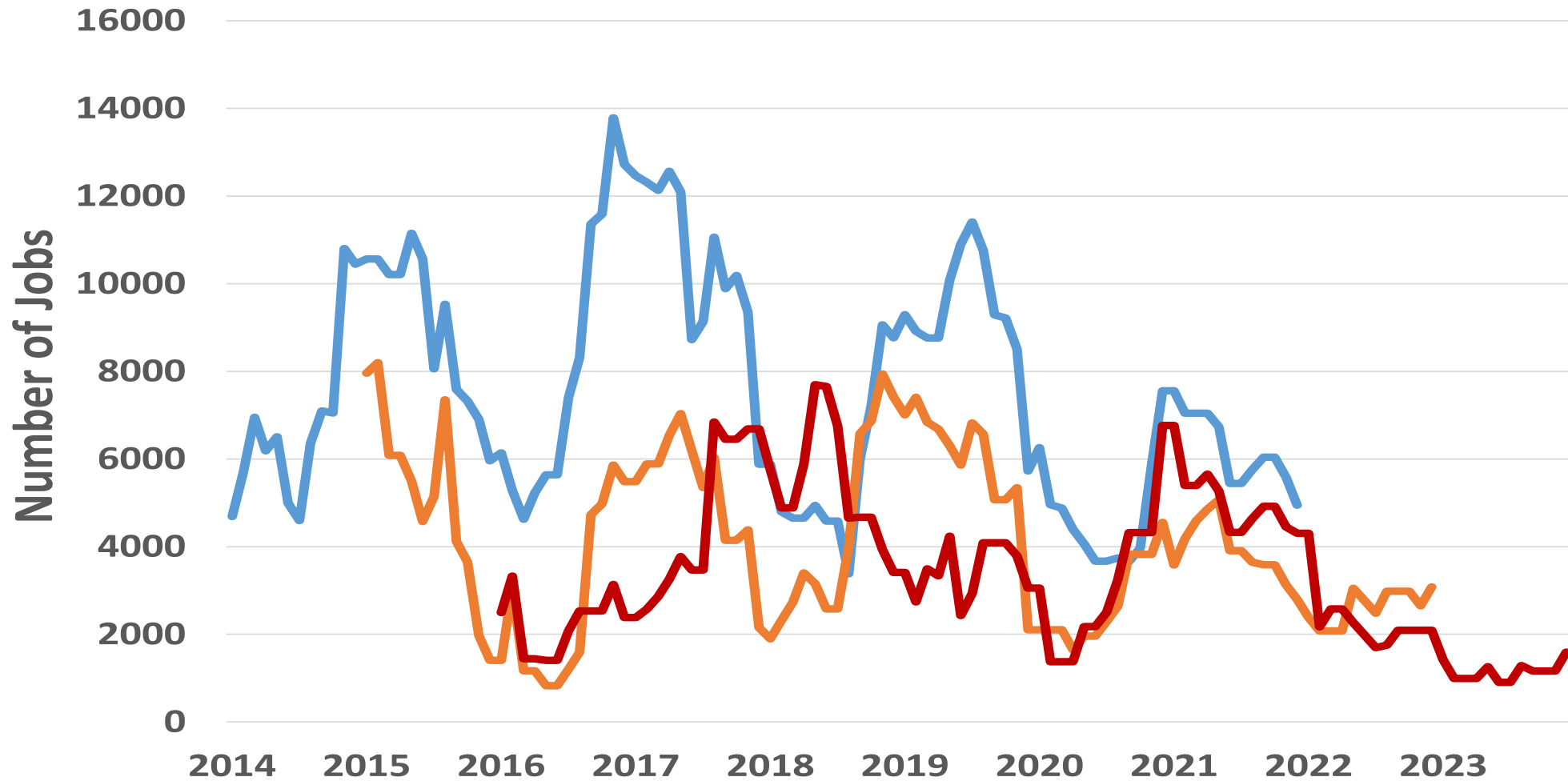
ON-SITE WORKFORCE NUMBERS FOR ALL PLANNED NEW CONSTRUCTION



ON-SITE TURNAROUND AND ONGOING MAINTENANCE



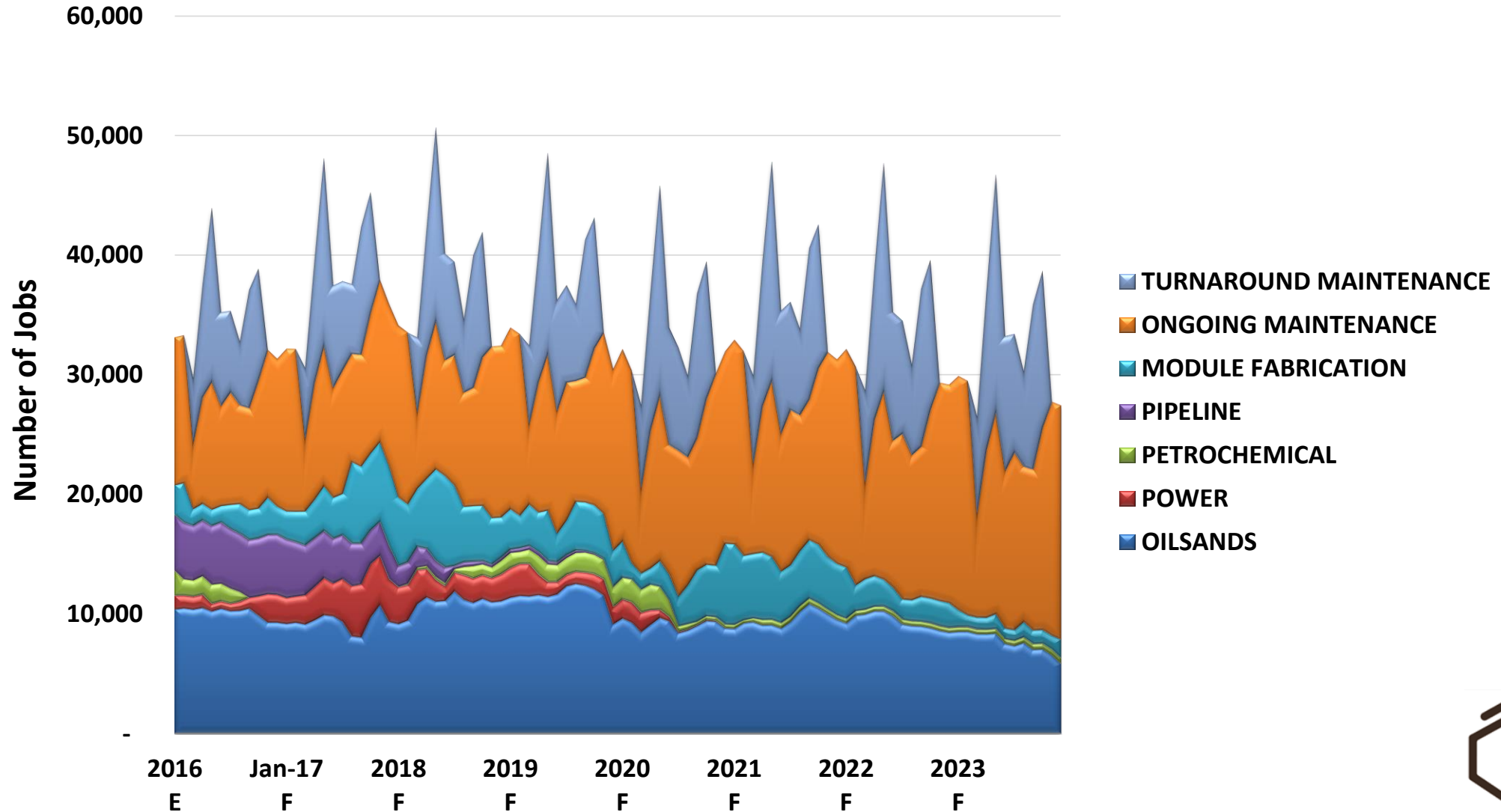
OFF-SITE MODULE FABRICATION



— 2014 Fall projection — 2015 Fall Projection — 2016 Spring Projection

OVERALL CONSTRUCTION WORKFORCE REQUIREMENTS BY CONSTRUCTION TYPE — SPRING 2016

PROJECTION

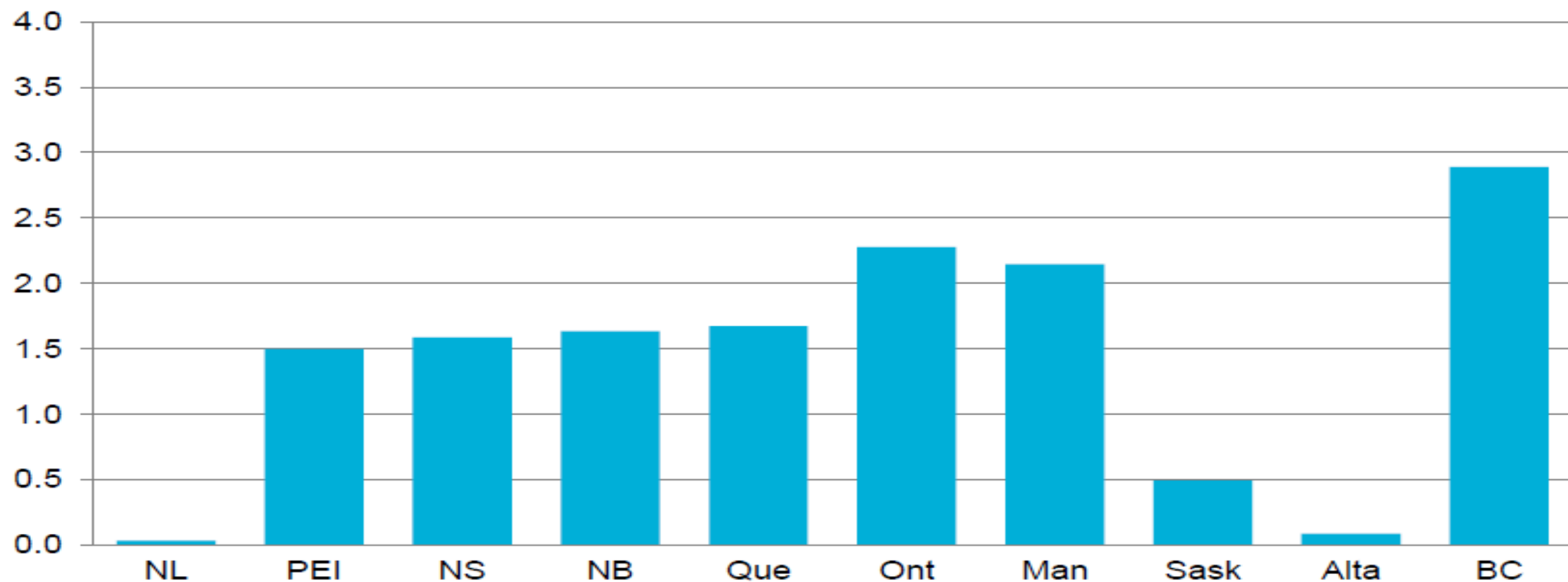


Real GDP Growth by Province

average annual compound growth, per cent



■ 2015-18



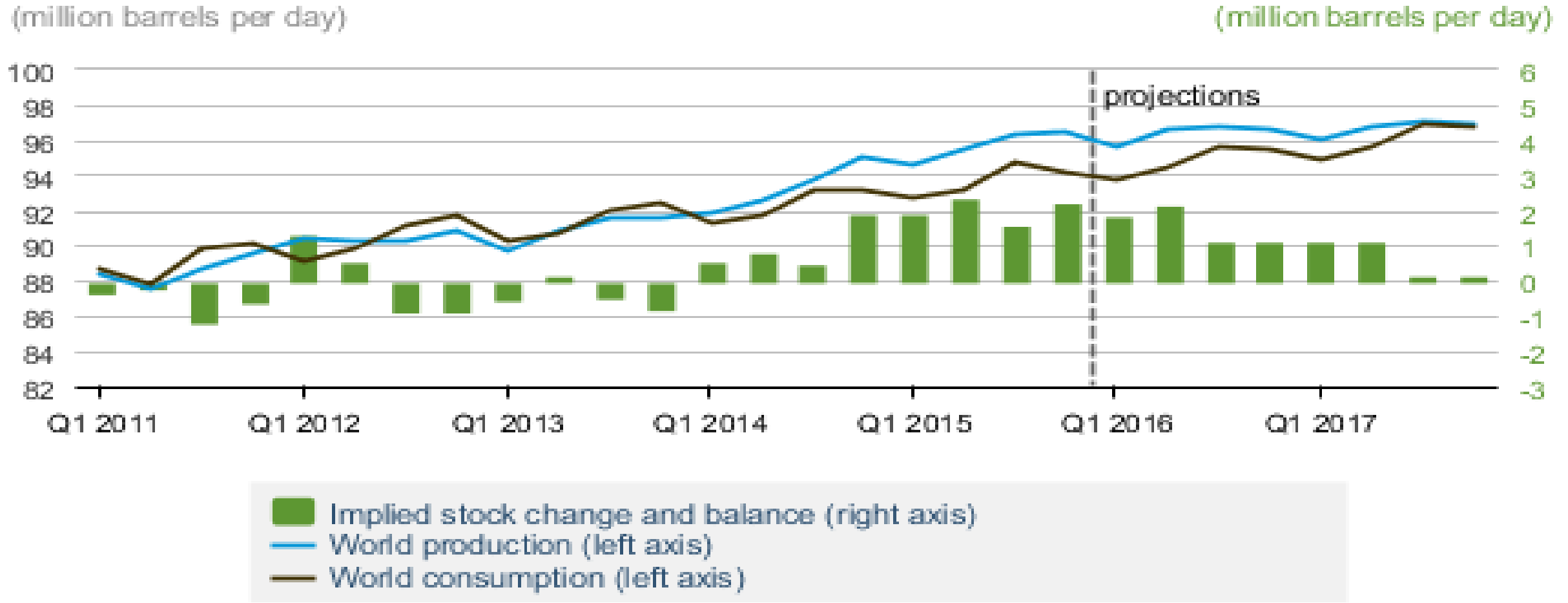
Sources: Statistics Canada; The Conference Board of Canada.



The Conference Board
of Canada

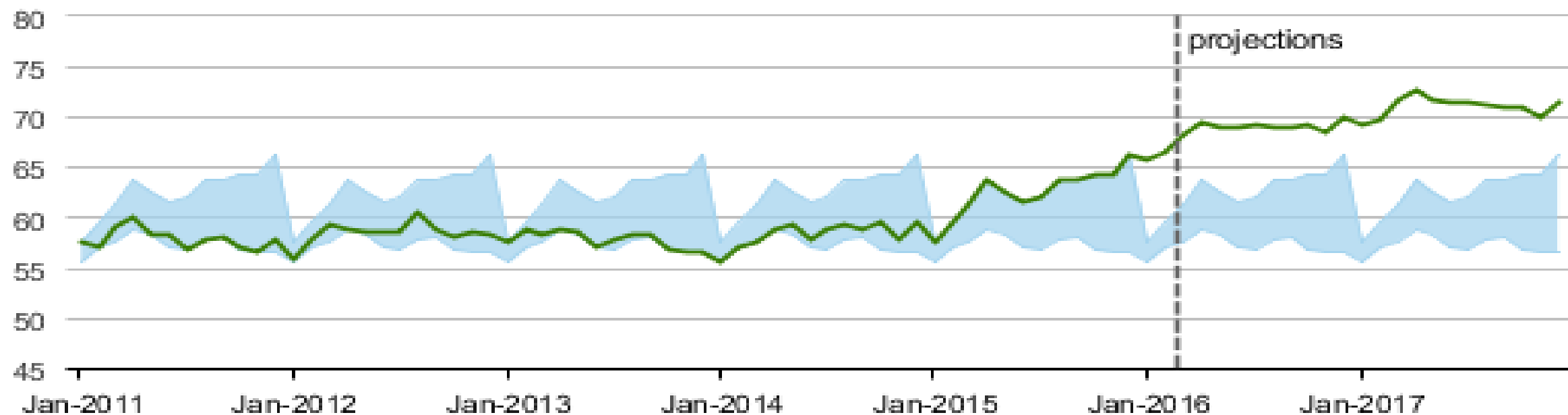
Le Conference Board
du Canada

World Liquid Fuels Production and Consumption Balance



OECD Commercial Crude Oil and Other Liquids Inventory Days of Supply

(days of supply)



— OECD commercial crude oil and other liquids inventories



Source: Short-Term Energy Outlook, March 2016

Note: Colored band represents the range between the minimum and maximum observed days of supply from Jan. 2011 - Dec. 2015.

World Consumption and Non-OPEC Production Growth

(change from previous year)

(million barrels per day)

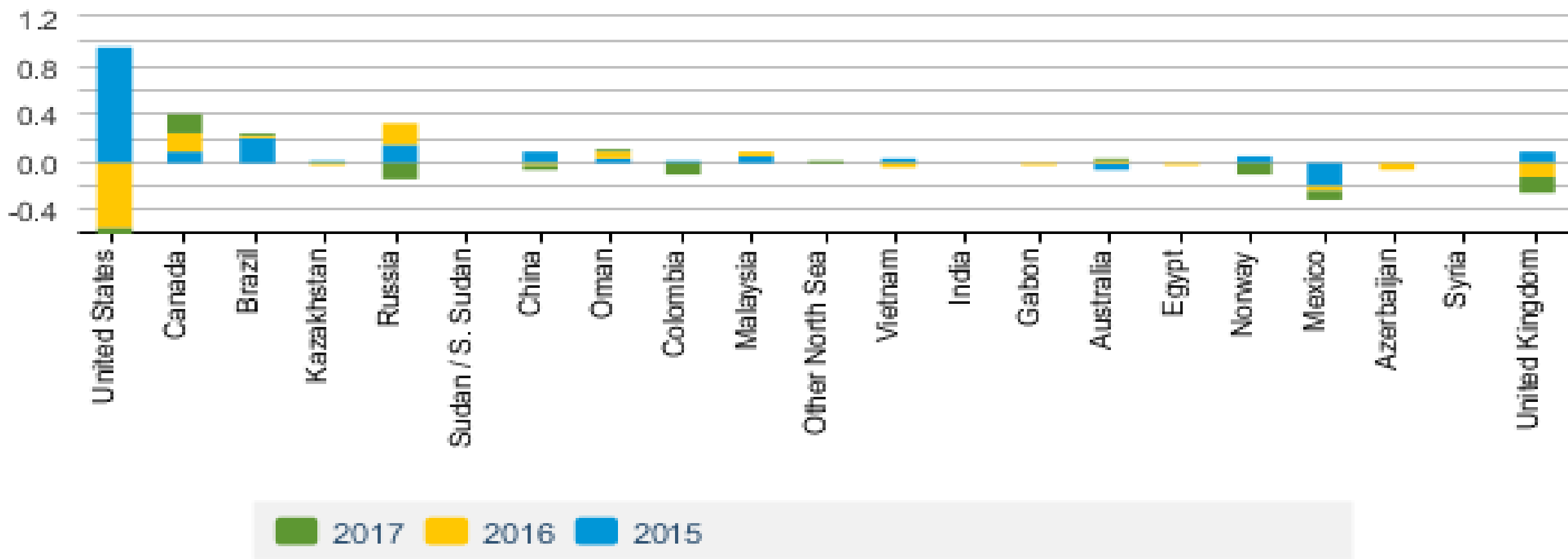
(dollars per barrel)

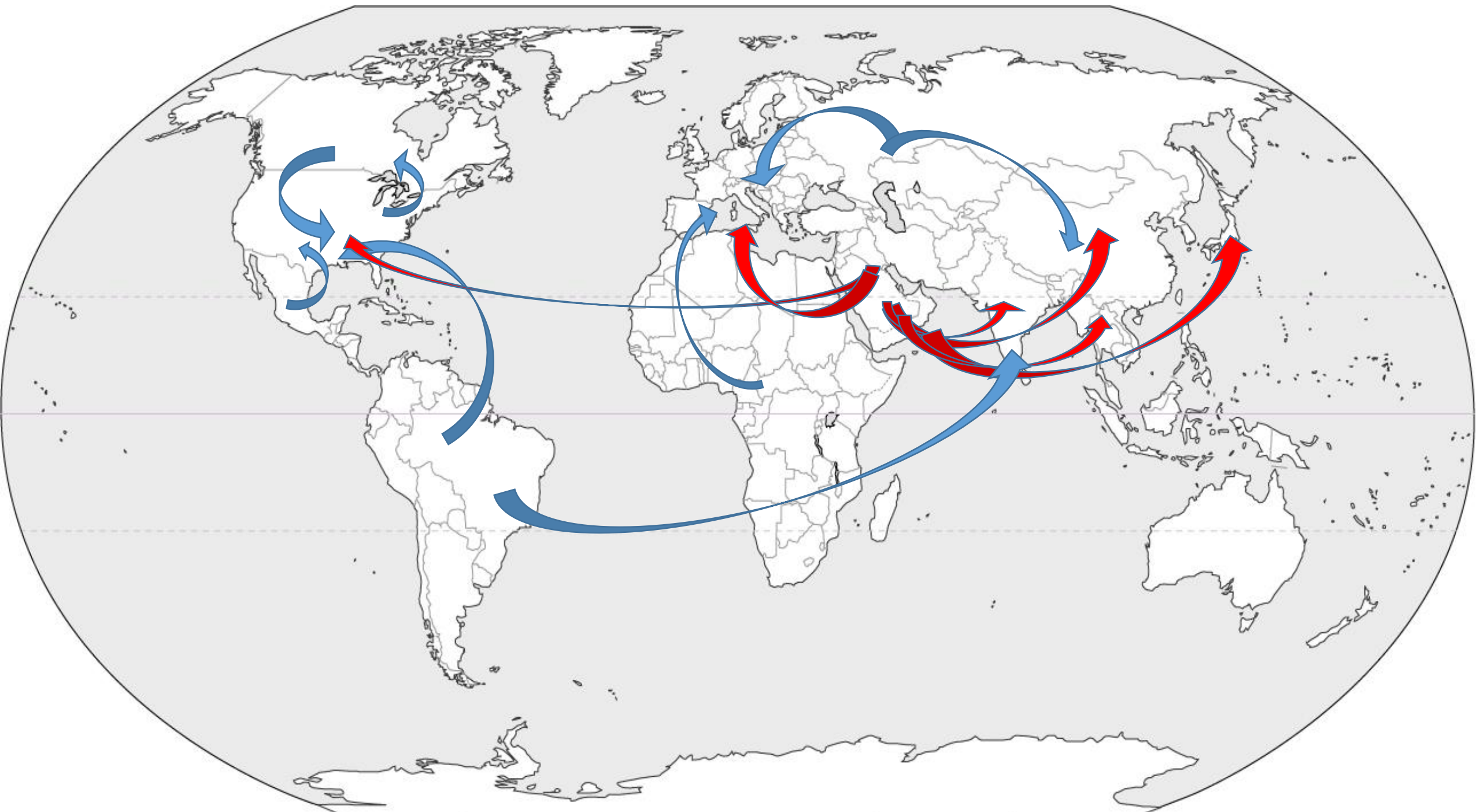


- World oil consumption (left axis)
- Non-OPEC production (left axis)
- Change in WTI price (right axis)

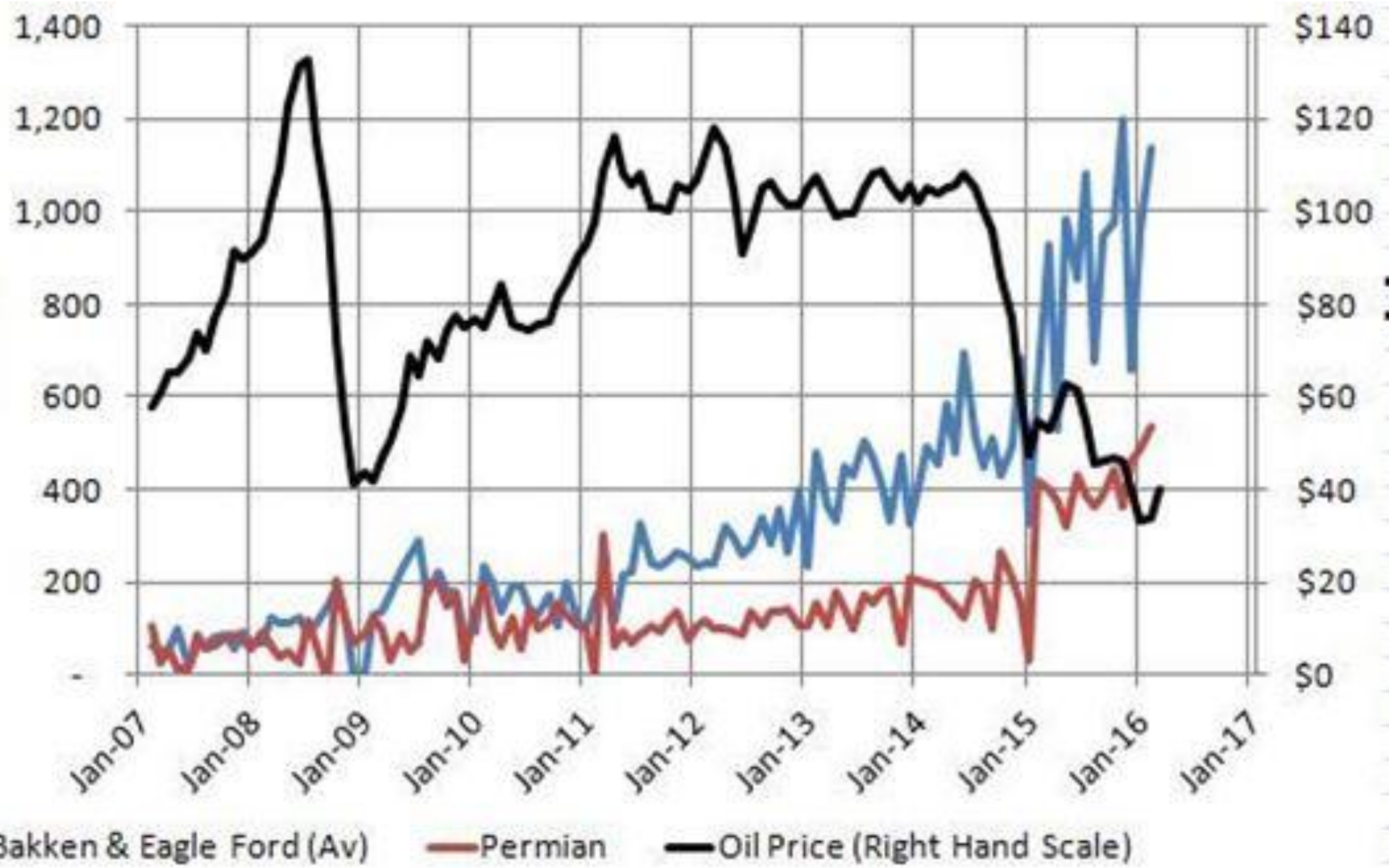
Non-OPEC Crude Oil and Liquid Fuels Production Growth

(million barrels per day)



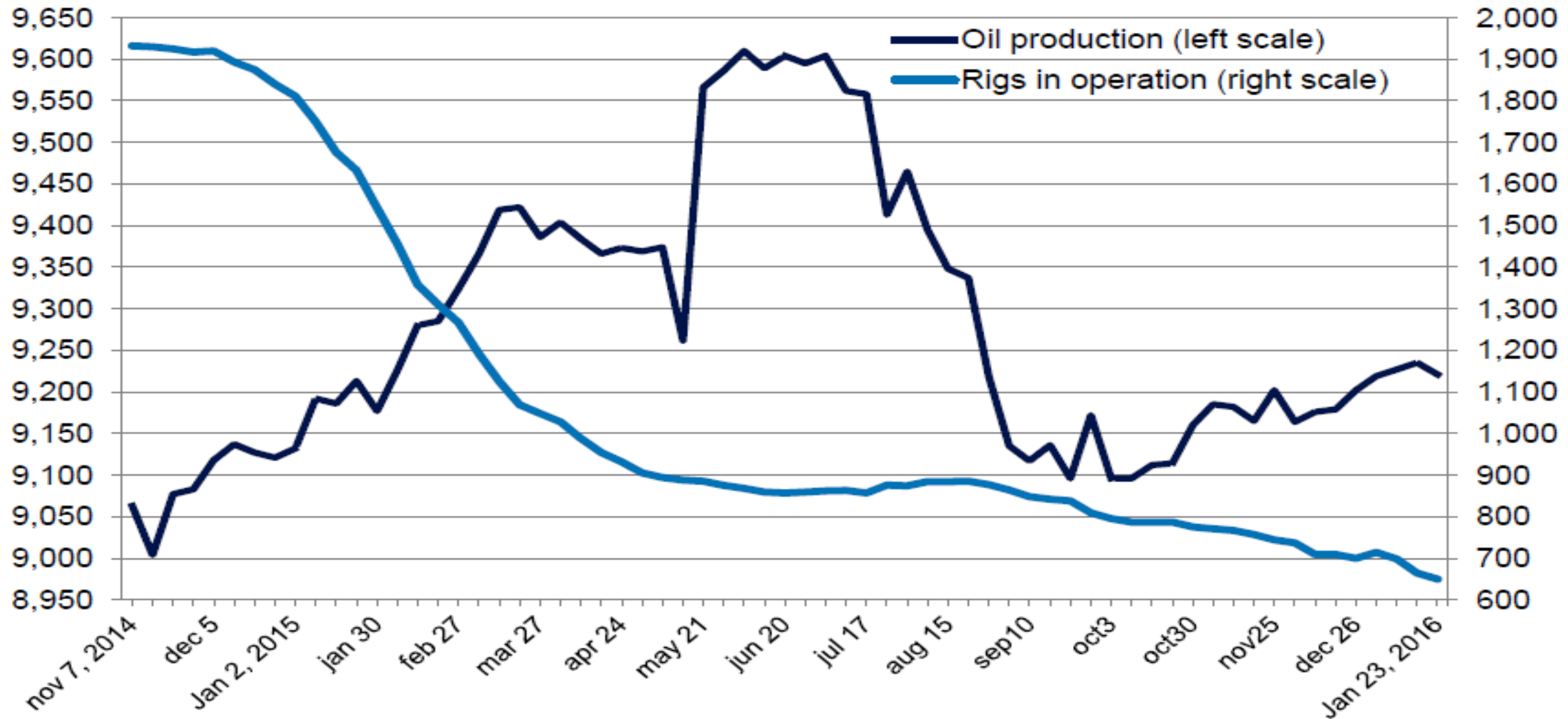


Barrels per day
new production
per rig-month



U.S. Oil Production and Rig Counts

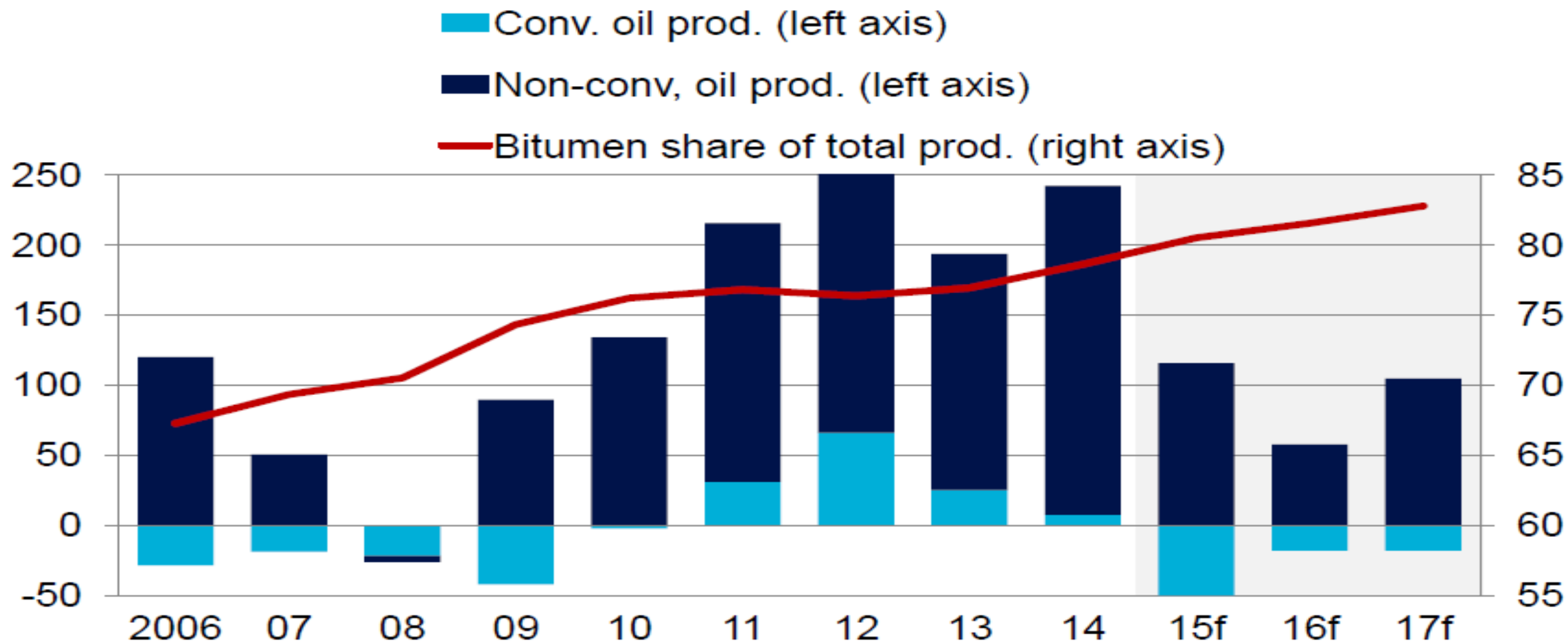
000s of barrels per day; number of rigs



Sources: EIA, Baker Hughes.

Alberta: Incremental Oil Production Increases

thousand barrels per day; share of total production



Sources: The Conference Board of Canada; National Energy Board



The Conference Board
of Canada

Le Conference Board
du Canada