

NY Energy Forum November, 2011

## PADD 2 Crude Oil Market Dynamics

Today's Market & Five Year Forward View

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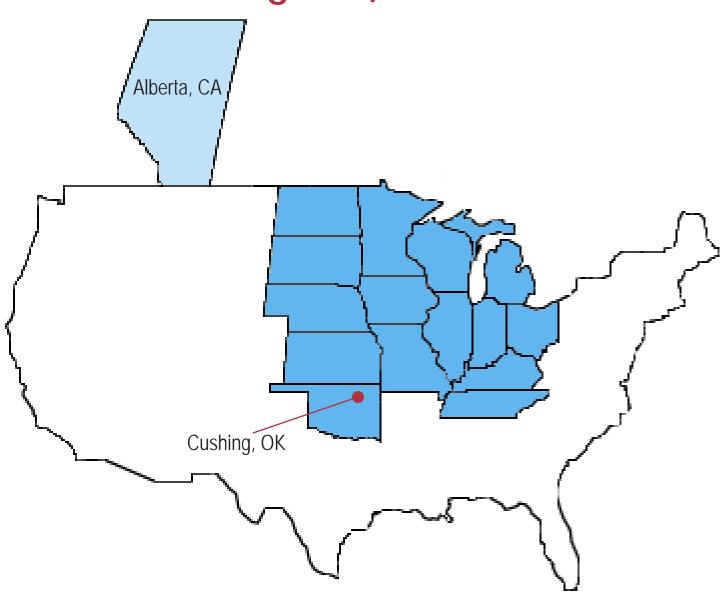


## PADD 2 Historically, Now, & In the Future

- How we got here
- Recent new information
- Looking five years ahead



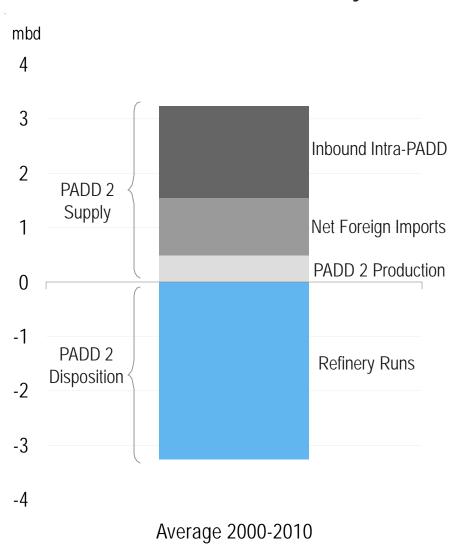
# (Where Is PADD 2 Again?)



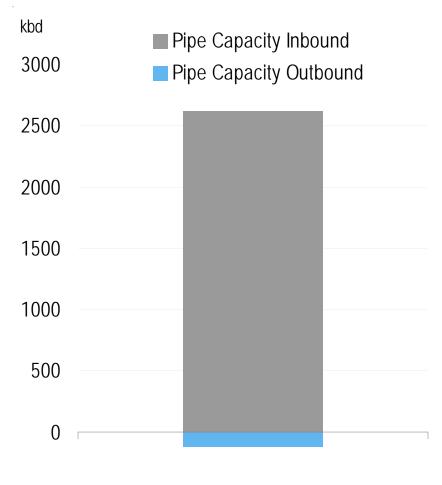


# Historically, PADD 2 Was a Taker of Crude

### Other PADDs Fed >50% of P2 Refinery Needs



## So Pipelines Flowed Into PADD 2, Not Out



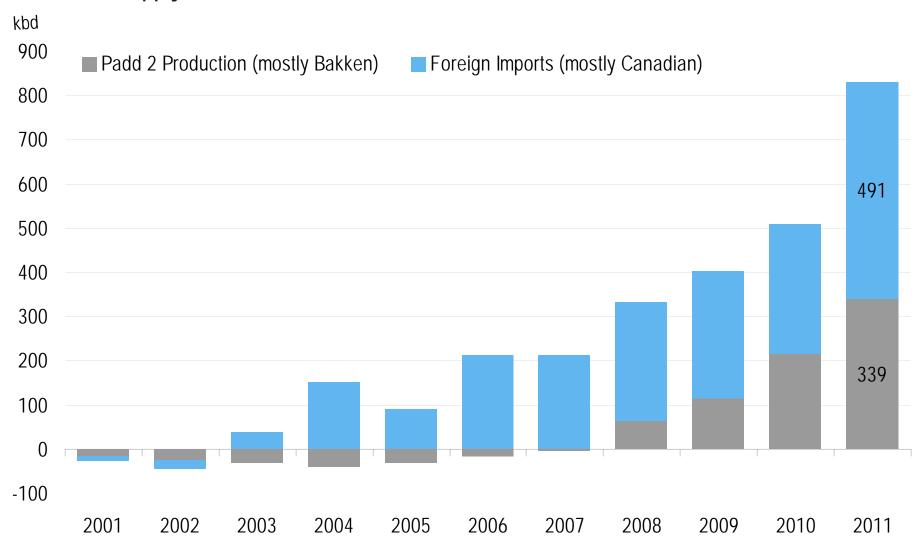
-500 Average 2000-2010

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# But Quite Suddenly, PADD 2 Supply Took Off

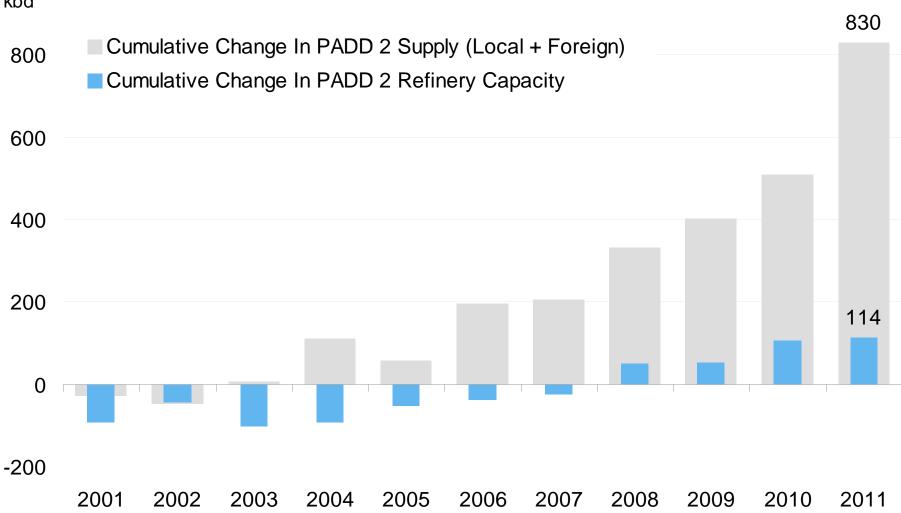
Cumulative Supply Growth Into PADD 2: Thanks To Alberta & The US Bakken





# PADD 2 Demand (Refinery Use)... Didn't

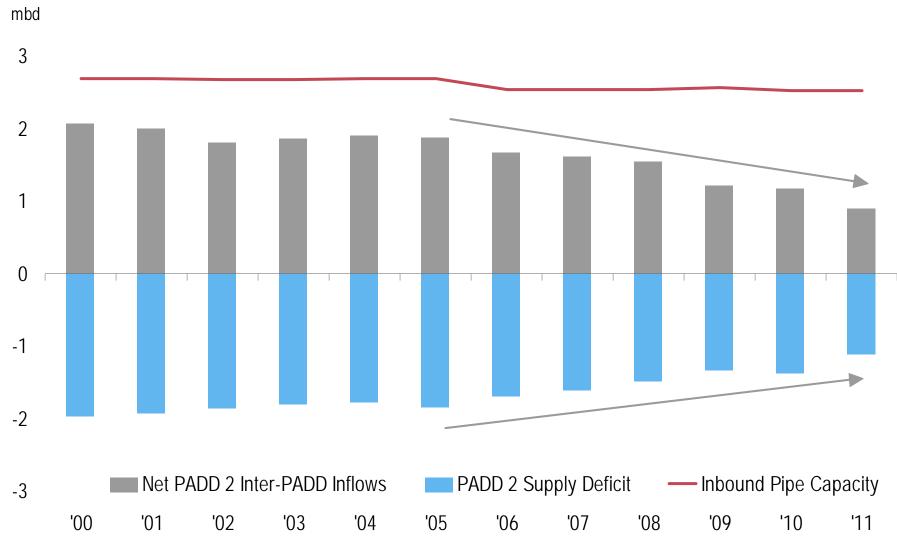
Cumulative Supply Growth Into PADD 2 Versus Regional Refinery Capacity Growth kbd





# Inter-PADD Flows From PADD 3 Were Displaced

Net PADD 2 Inter-PADD Inflows Versus PADD 2 Supply Deficit

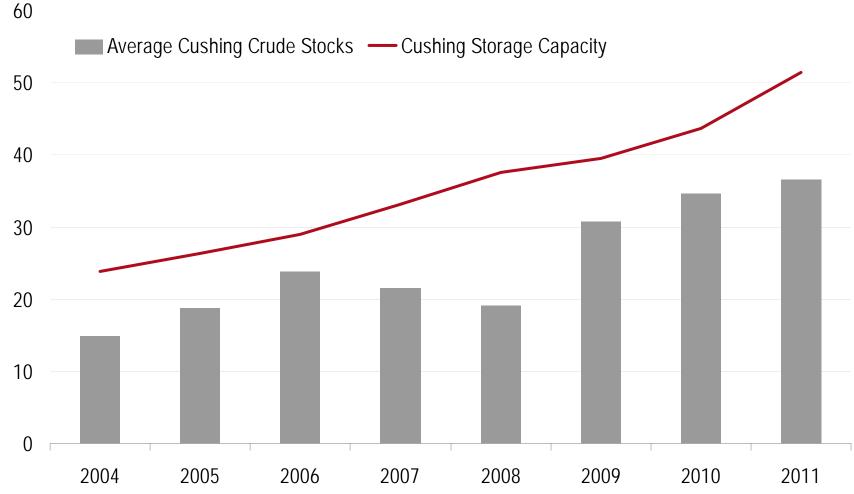




# **But Cushing Inventories Still Climbed**

(Storage Capacity Did, Too)

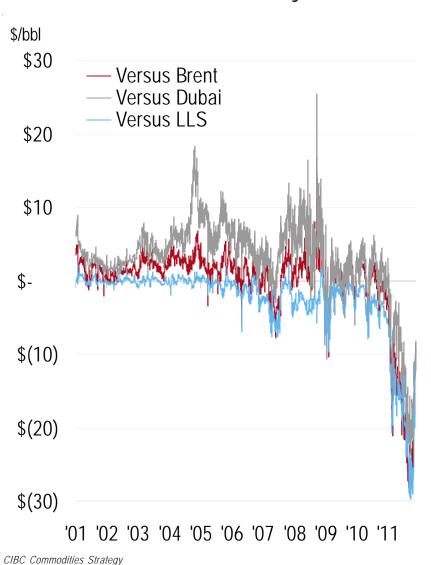
Net PADD 2 Inter-PADD Inflows Versus PADD 2 Supply Deficit mb



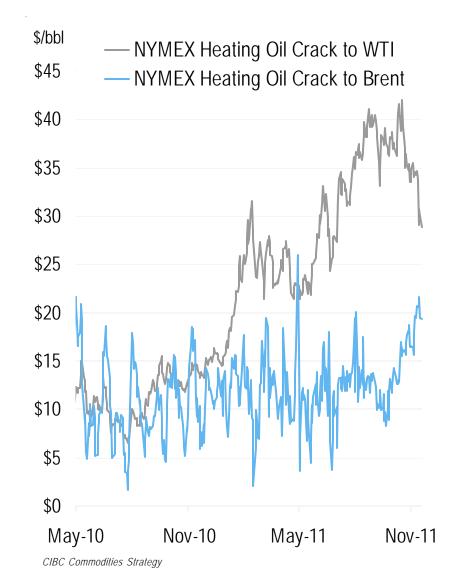


## WTI Parted Ways With Global Oil Markets

### WTI Weakened Vs Almost Every Other Crude...



### ... And Versus Refined Products Too

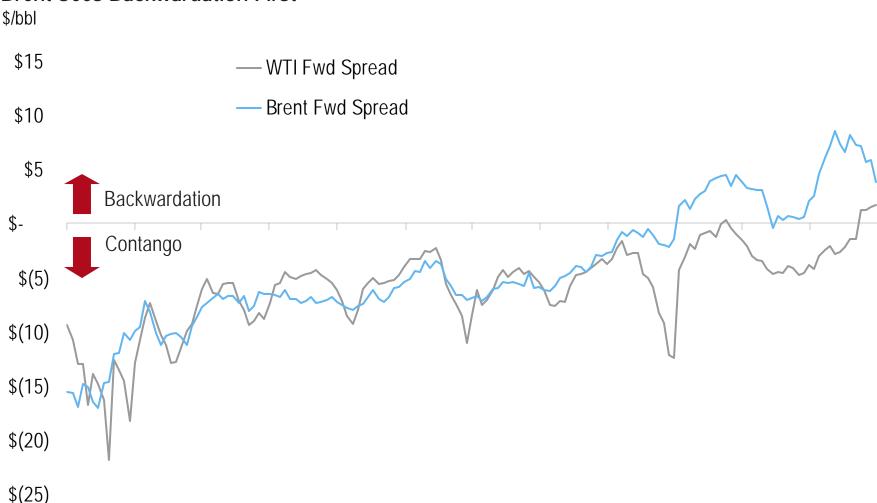




# WTI Times Spreads Were Also Pressured

(As One Would Expect Given Inventories)



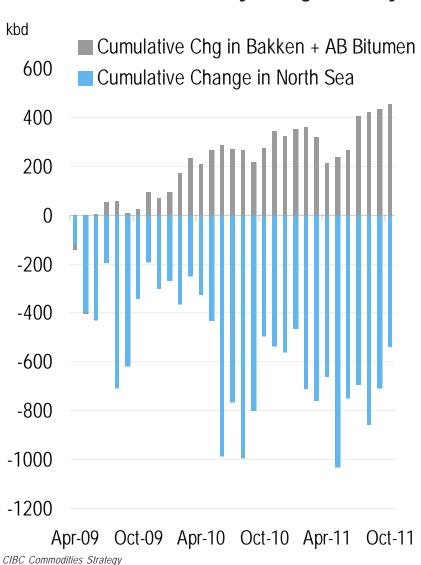


Nov'08 Feb'09 May'09 Aug'09 Nov'09 Feb'10 May'10 Aug'10 Nov'10 Feb'11 May'11 Aug'11 Nov'1

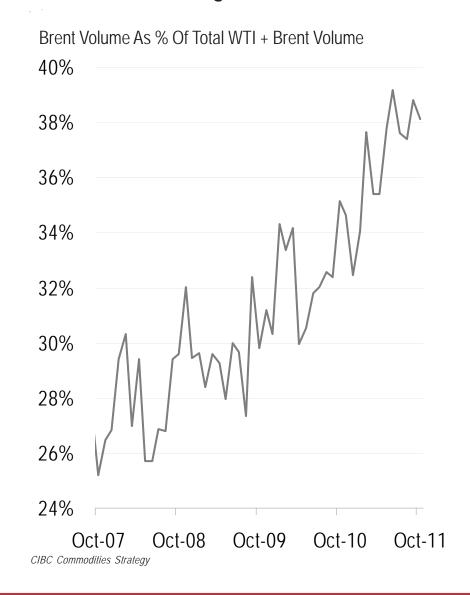


## Brent Has Issues Too, But Still Attracted Volumes

### North Sea Production Only Going One Way



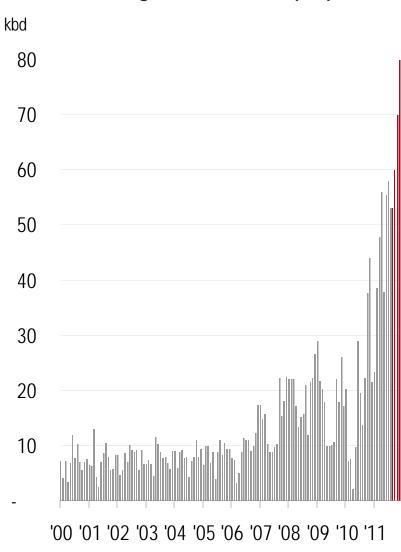
### But Even So Trading Volumes Shifted To Brent





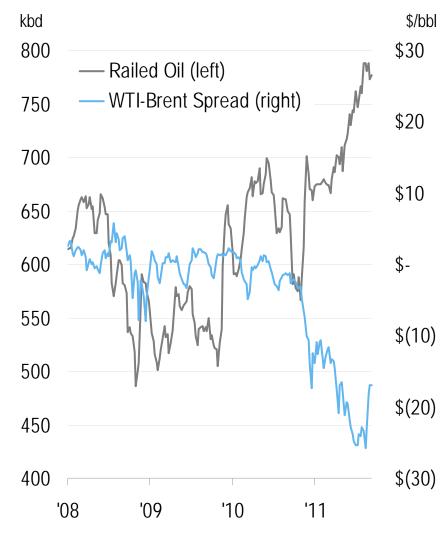
## **But Wait! The Market Responds to Dislocation**

## Ex-PADD 2 Barge Volumes Ramp Up



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### Railed Volumes Also Rise...





# **Cushing Crude Inventories Fell Accordingly**

Cushing Inventories Fall Nearly 12 mb From Early April Peak

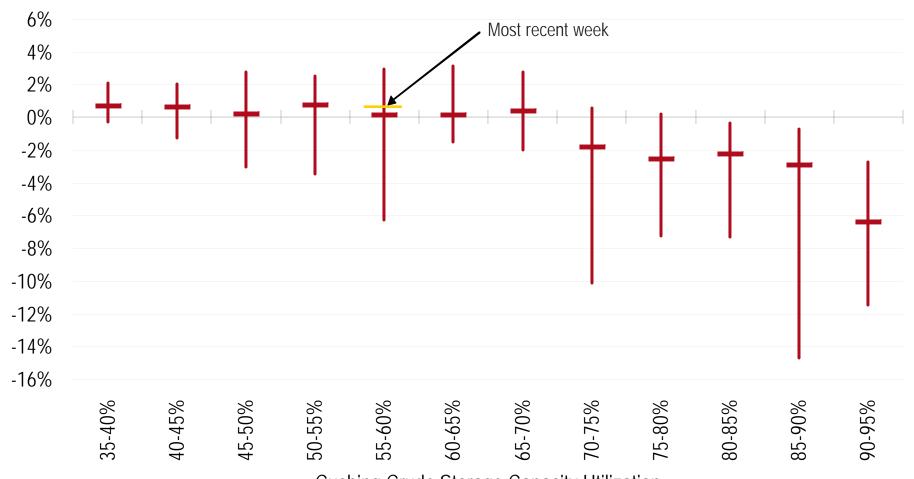




## WTI Spreads Rallied; Brent Premium Eased

Historical WTI Spreads At Cushing Storage Capacity Utilizations (Range & Average)

Mo.2-Mo.4 As % of Flat Price



Cushing Crude Storage Capacity Utilization

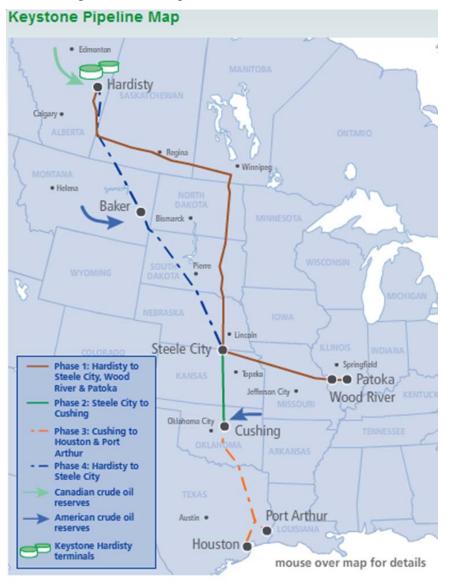


# But Pipeline Capacity Is Ultimately Still Needed

Contender #1: Transcanada's Keystone Project — Down But Not Out

Phase 3: Cushing, OK to Houston/Port Arthur,
TX — DFL AYFD

• Phase 2: Steele City, NB to Cushing, OK — COMPLETED Feb'11



Phase 1: Hardisty, AB to Steele City, NB, Patoka/Wood River, IL—
COMPLETED Jun'10

Phase 4: Hardisty, AB to Steele City —DELAYED



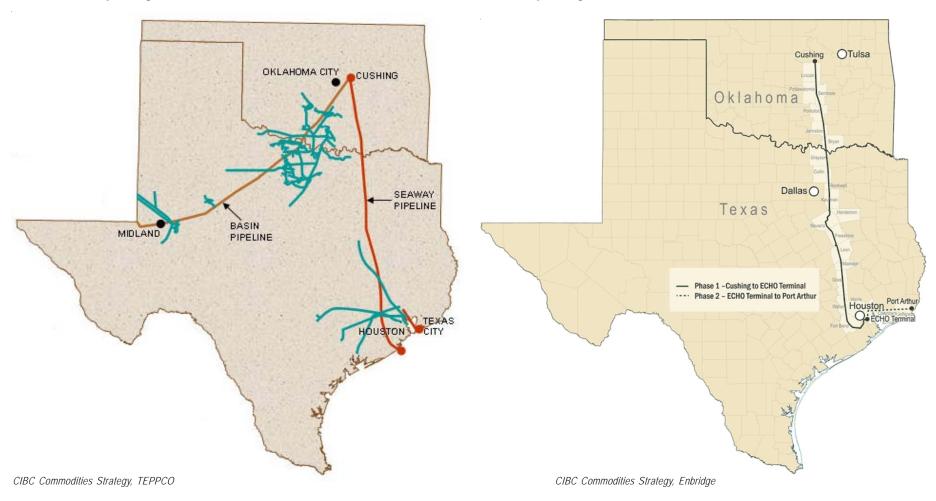
# Pipeline Capacity Prospects Cont'd

### Enbridge/Enterprise Seaway Reversal:

• Estimated 150 kbd online 2Q'12, 400 kbd ultimate capacity mid-2013

## Enbridge/Enterprise Wrangler:

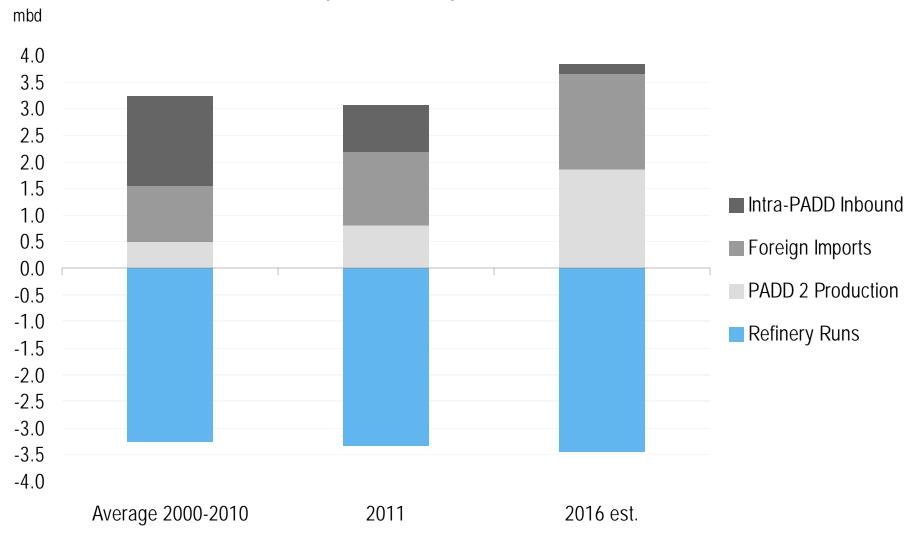
• Estimated online mid-2013, 800 kbd ultimate capacity





## So Where Does This Leave Us?

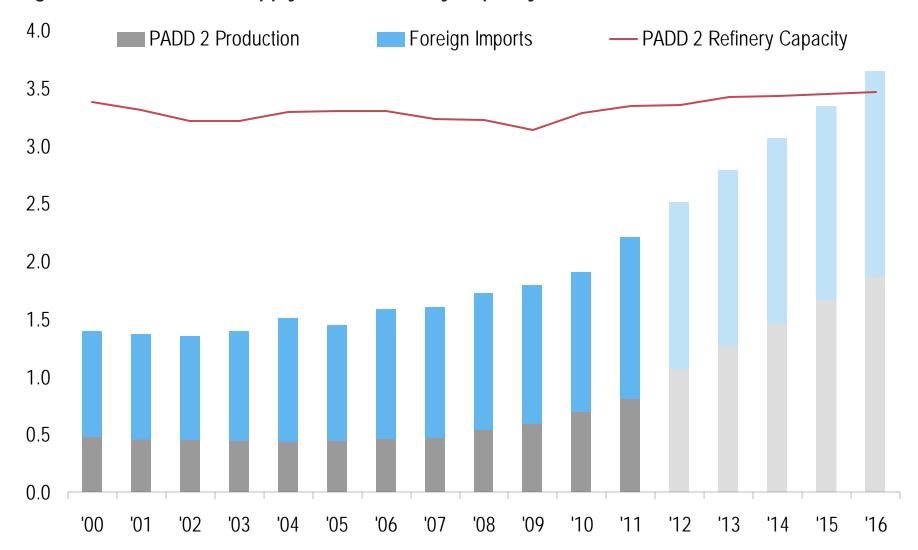
PADD 2 Production & Canadian Imports Will Displace More USG Crude





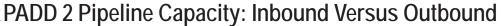
# PADD 2 May Not Need Any PADD 3 Crude At All...

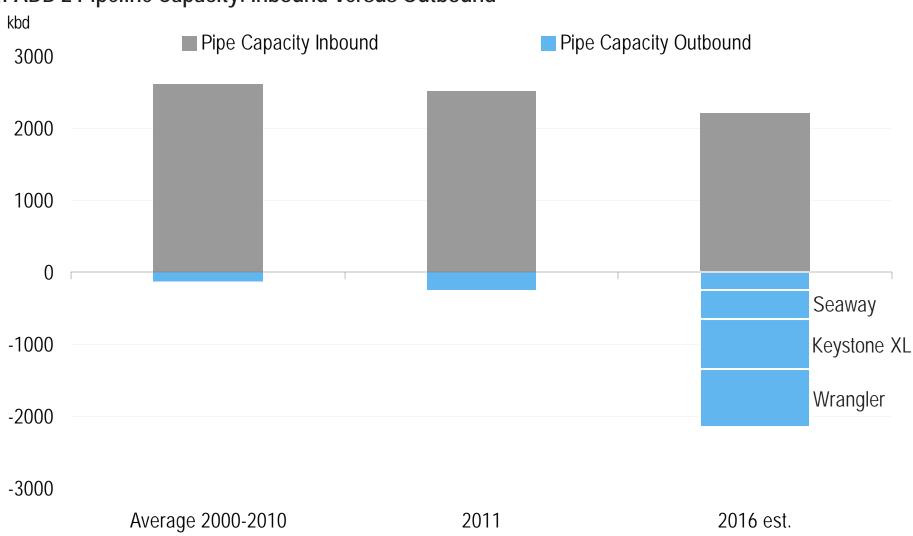
## Regional PADD 2 Crude Supply Versus Refinery Capacity





# How Would Those Pipeline Additions Stack Up?

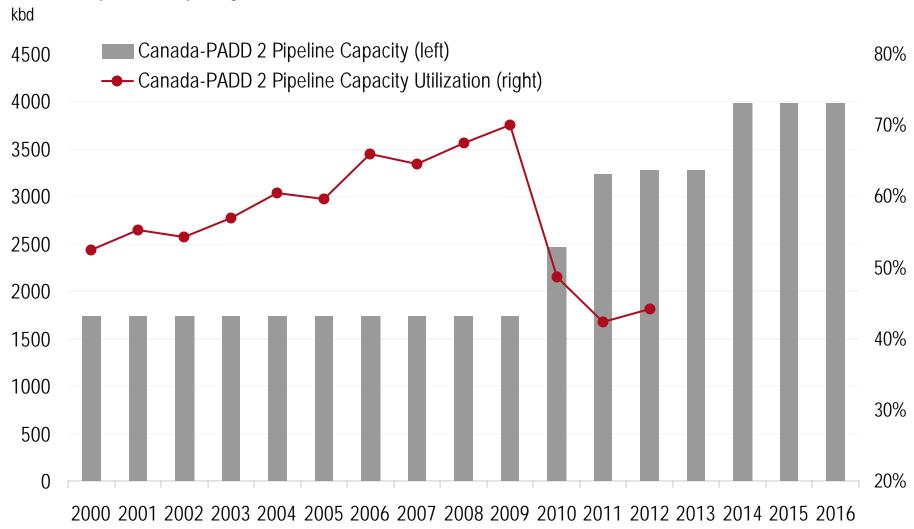






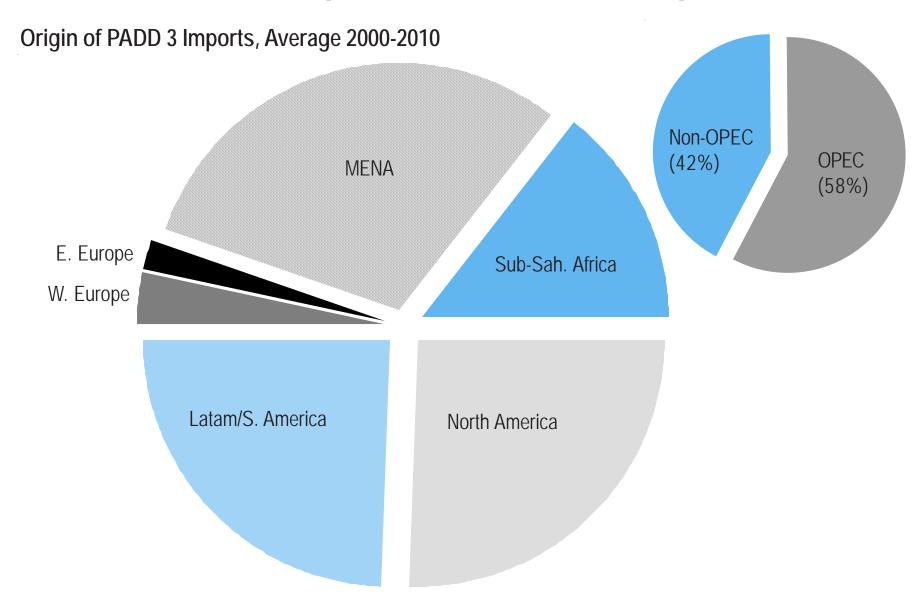
# Canada-PADD 2 Pipeline Capacity Not An Issue

PADD 2 Pipeline Capacity: Inbound Versus Outbound





# What PADD 3 Imports Could Be Displaced?





## Other Odds & Ends...

## A greenfield refinery in PADD 2?

Dakota Oil Processing is planning a (small) 20 kbd refinery in North Dakota geared towards supplying diesel to support Bakken production (rigs, trucks).

### Could Canada focus attention west?

Proposed pipeline capacity from Edmonton to the West Coast includes Enbridge Gateway project, KinderMorgan's Northern Leg of the Trans Mountain system, and other TMX expansions. Canada currently exports just ~50 kbd to Asia.



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