

Shale: Swing Supplier or Bridge Fuel?



Jamie Webster, Fellow
@websterdrake

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The Swing Supplier Test

Test 1:

Sufficient flexible volumes to counteract differences in supply demand

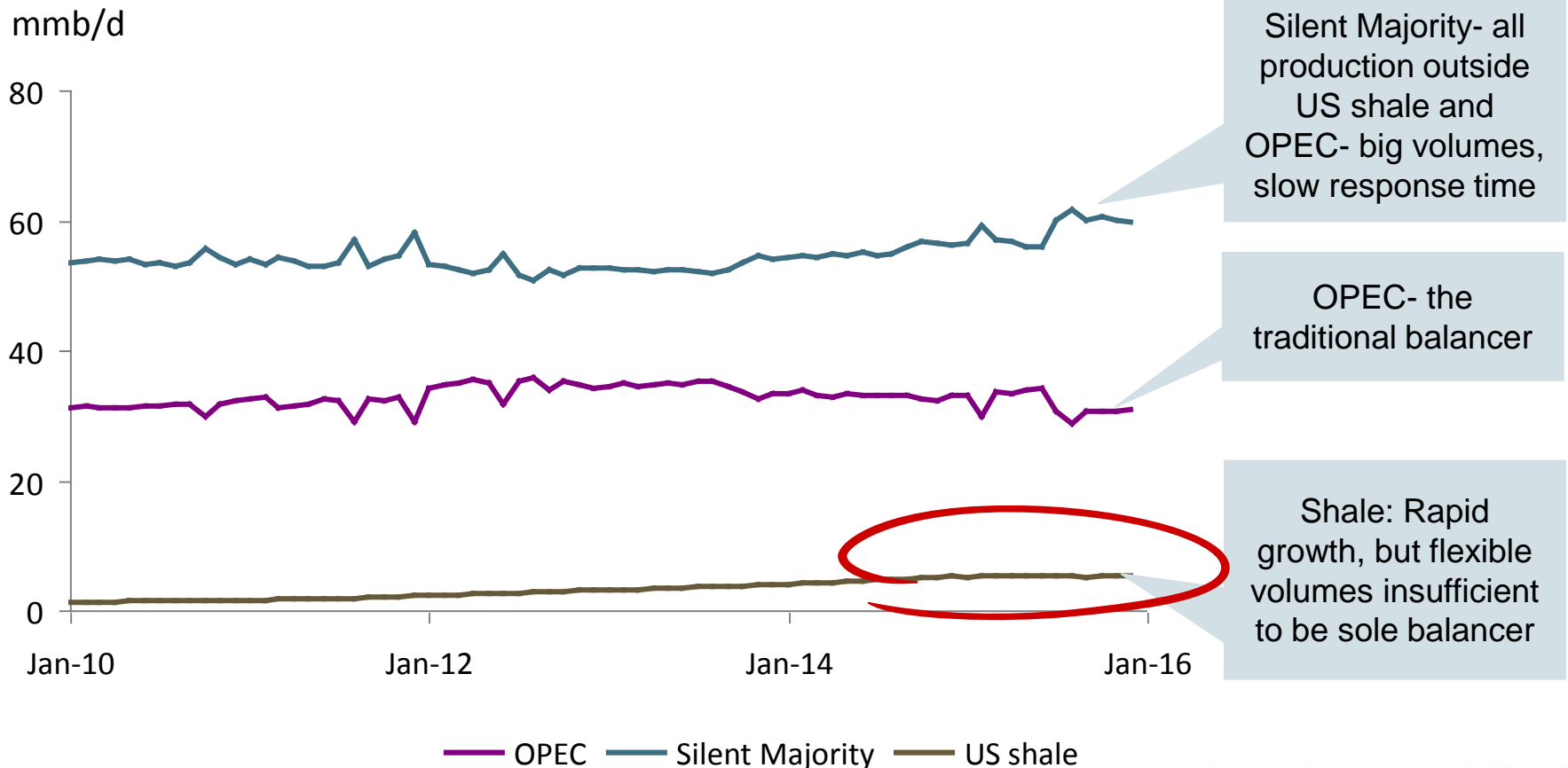
Test 2:

Ability and willingness to be first supply mover when needed



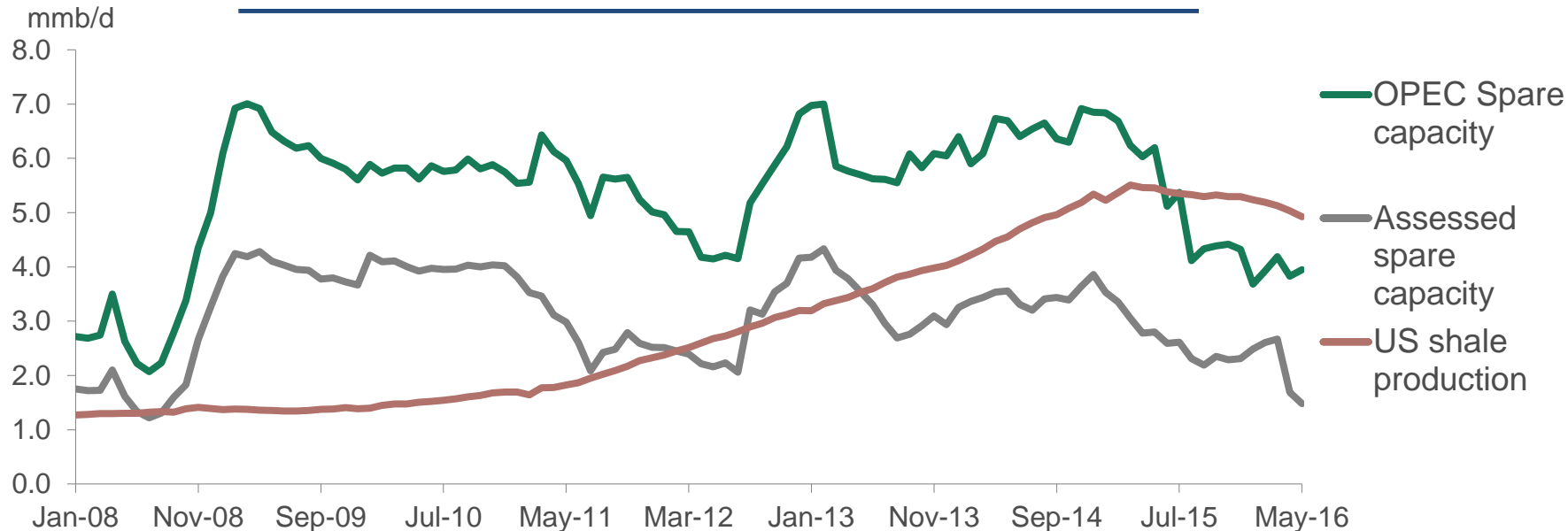
Swing supplier test 1: Sufficient flexible volumes to counteract supply demand differences?

Shale in context: A small part of global supply



Assessing the sufficiency of shale supplies

OPEC spare capacity against shale production



Source: EIA, OPEC, JODI

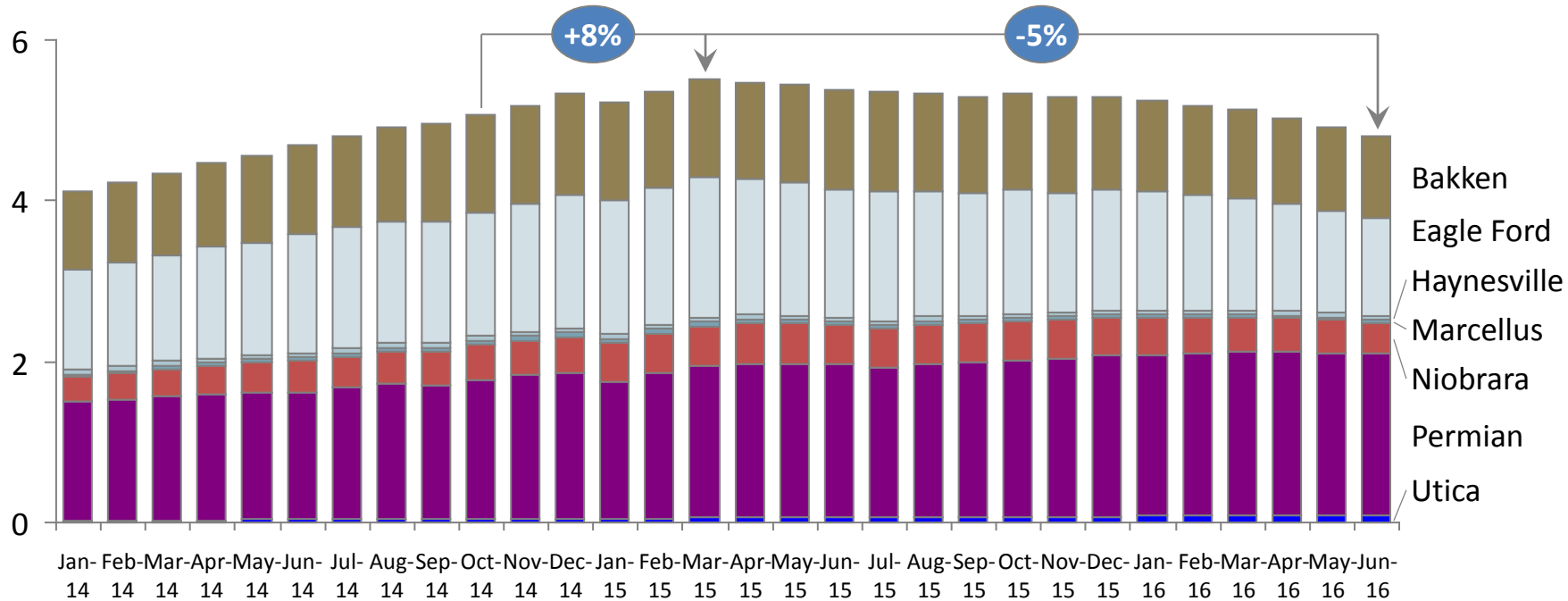
Shale has grown, but still too small, slow on its own

- Shale production is now above any measure of OPEC spare capacity
- Even in the fastest growth years, it took shale 3 years to gain enough volumes to equal assessed spare capacity- faster than conventional but too slow to keep market steady



US shale production took ~6 months to halt growth

mmb/d



Source: EIA

The slow slowing of US shale

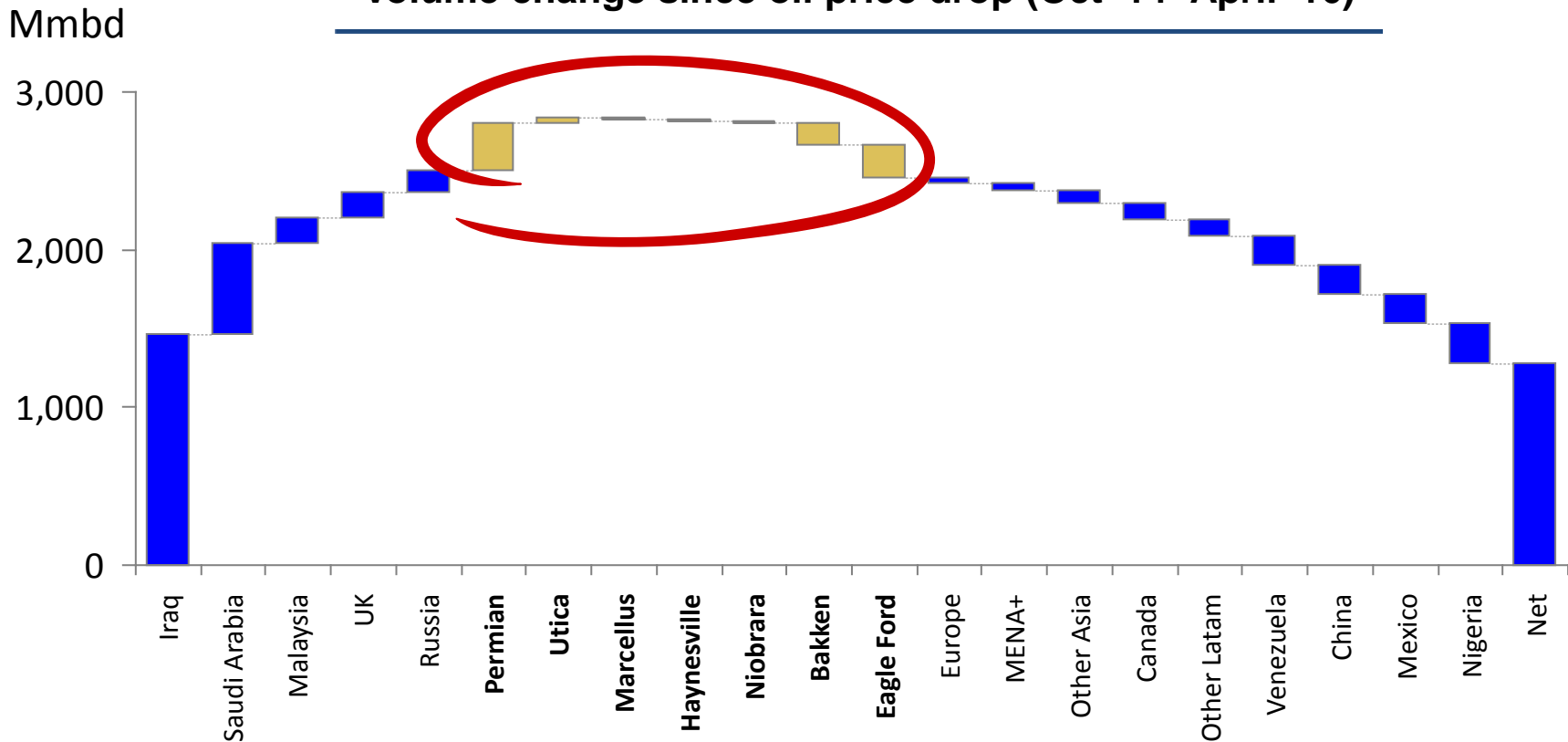
- After oil price drop accelerated in Oct '14, shale production grew another ~0.4 mmb/d through Spring '15
- Net production change since price drop is 0.27 mmb/d
- Global oversupply over this time reached >2.0 mmb/d



Swing Supplier Test 2: Ability/Willingness to be First Mover

The global context

Volume change since oil price drop (Oct '14- April '16)

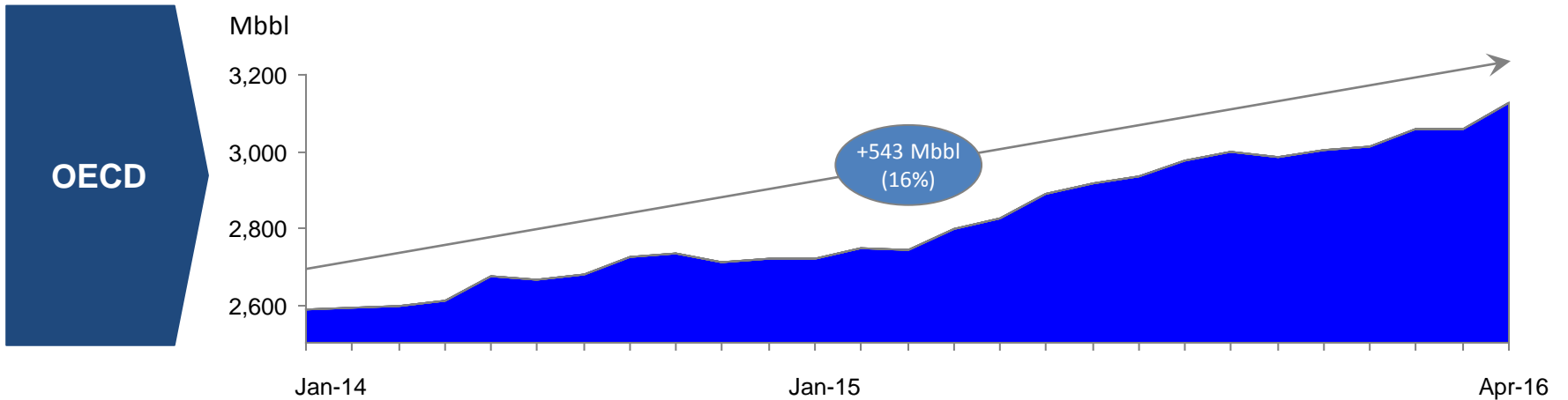
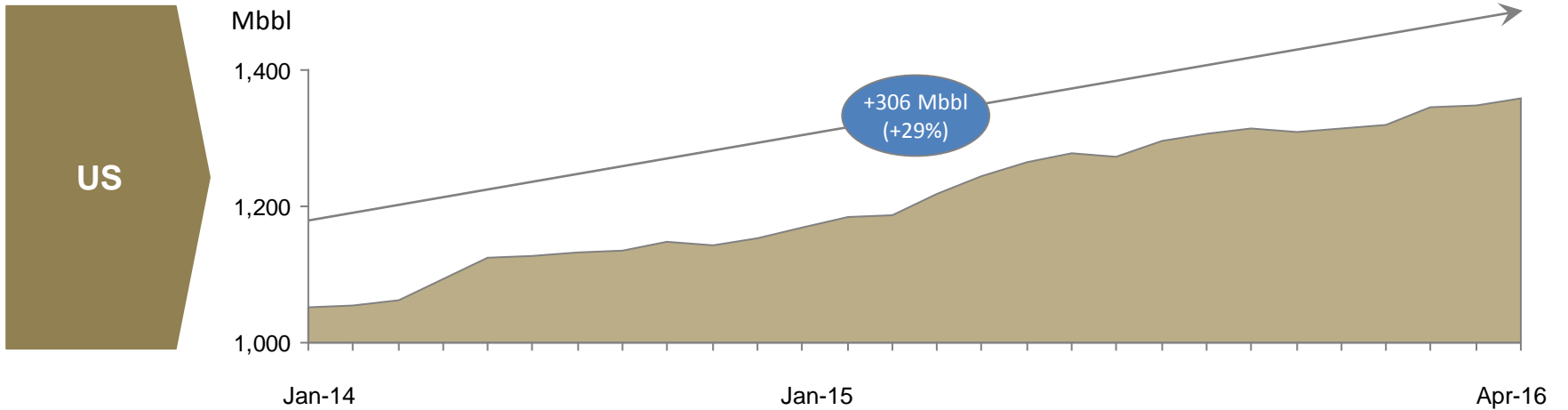


The swing supplier is multipolar- not unipolar = greater uncertainty, volatility and market complexity

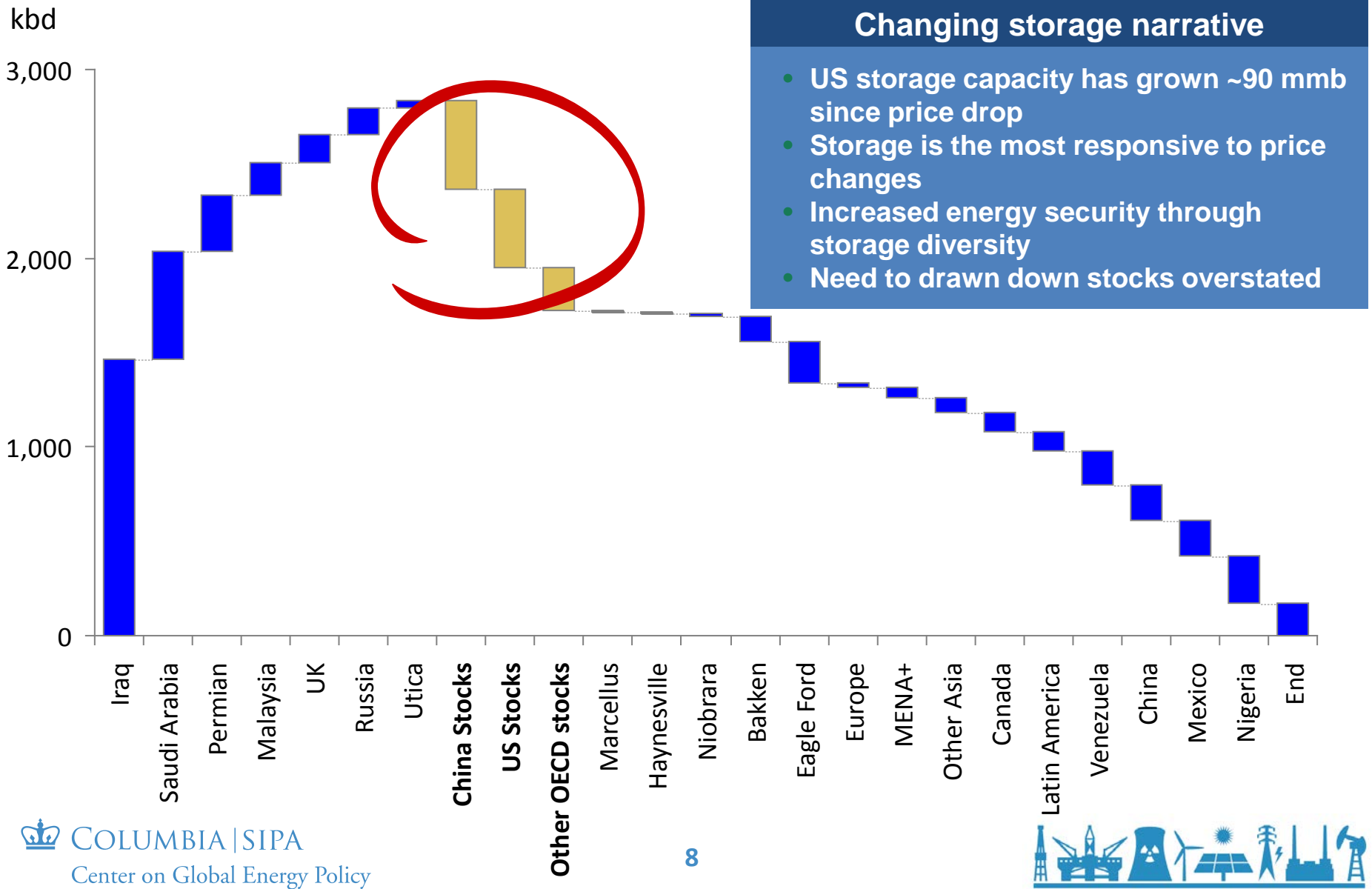


Stock builds absorbed the oversupply

Commercial inventories



Storage as flow – biggest and first mover in rebalancing



Shale's role in the future

- A handoff of swing supplier/market balancer from OPEC to shale makes too simple a complex market adjustment
- The oil market is becoming multi-polar for near term balancing
- Shale does have a key role- but as the bridge between fast moving storage and long-term projects
- Keep watching OPEC

Thank you



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Center on Global Energy Policy

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NAME

TITLE

email

Phone

