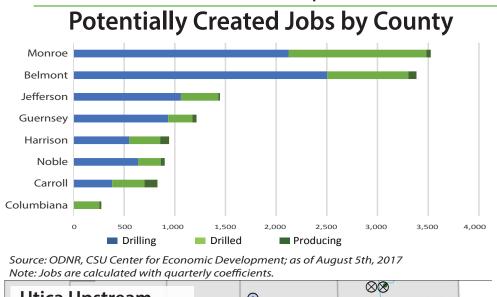
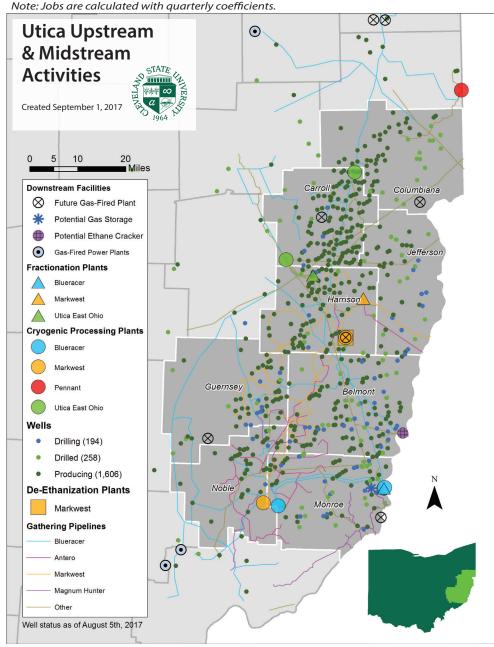
Eastern Ohio Shale Dashboard

September 1st, 2017





Source: ODNR, CSU Center for Economic Development

Shale Indicators

Q4'16 - Q2'17 Quarter 2 Year Change*

New Well Count Source: ODNR

116

Employment

Source: CSU

+22%

12,515

+31%

WTI Oil Price per Barrel

Source: EIA on June 30th, 2017

\$46.02

+8%

Sales Tax

Source: OH Department of Taxation

+12.6% \$17.7 M



Shale Insights

- WTI price stabilizing near \$50 per barrel until reassessment of inventories and upcoming November OPEC meeting
- OPEC total crude output climbs 173,000 b/d in July 2017 despite plans to curb.
- Power generation continues shifting to natural gas; currently 10 gas-fired plant review projects are uńder construction.
- Underground storage facility is seeking contracts and regulatory approval in Belmont County and expected to be built at the end of 2018
- Construction is underway for Shell ethane cracker plant in Beaver County, PA; operations expected to start after
- PTT Global moves forward with potential ethane cracker development in Belmont County by acquiring 168 acre parcel along the Ohio River
- 28 drillings rigs in August '17, up from 21 in April '17, according to Baker Hughes

*Note: Year changes are calculated from the current quarter to the same quarter the year before.

Belmont Carroll Columbiana Guernsey Harrison Jefferson Monroe