



# Shale Economic Development Overview (Fall 2015)

This chart focuses on midstream and downstream development investments in Ohio, in particular those involving pipeline and related infrastructure. The chart is not intended to include investments typically associated with the upstream segment of the oil and gas industry, including those directly related to oil and gas lease bonus and/or royalty payments; seismic testing; well site preparation; well drilling; and well completion.

County(ies)	Company(ies)	Project (brief description)	Investment
Allen	Husky Energy	Sanctioned a new crude oil flexibility project at its refinery in Lima, which will allow for the processing of up to 40,000 barrels per day of heavy crude feedstock from Western Canada starting in 2017.	\$300 million
Ashland, Huron, Richland, Seneca and Wayne	Sunoco Logistics Partners LP	In February 2015, Sunoco commenced operations of its 85,000 b/d Allegheny Access pipeline system in eastern Ohio and western Pennsylvania.	Unknown
Ashtabula	Velocys	Wants to build a 2,800-barrel-per-day natural gas to liquids refinery to be operational in 2016. When the project was first announced in 2013, it was projected that the plant would create 30 permanent jobs, 400 construction jobs and 100 indirect jobs.	\$200 million
Athens	Ohio Third Frontier	The organization provided a grant to Ohio University for a wastewater cleaning project whose goal is to "finalize and commercialize a method to treat produced well water on-site."	\$1.45 million
Belmont and Monroe	Rice Midstream Holdings and Gulfport Energy Corp.	<u>This midstream joint venture will develop natural gas gathering and water services assets to support Gulfport's dry gas Utica Shale development. "The system will consist of 165 gathering pipelines with multiple interconnections to interstate pipelines, including Rockies Express, ET Rover, TETCO and Dominion East Ohio." First deliveries are planned for mid-2016.</u>	\$640 million
Belmont and Jefferson	MarkWest Energy Partners LP and the Energy & Mineral Group	<u>These companies will partner to develop a dry gas gathering system that is expected to gather more than 2 billion cubic feet of dry gas per day once it is operational by the end of 2015. The system will contain more than 250 miles of pipeline and more than 200,000 horsepower of compression.</u>	\$1 billion
Belmont	Various	<u>The oil and natural gas industry is directly responsible for the new 15-acre retail development on the site known as Kettler's Ridge.</u>	Unknown
Belmont	Community Foundation for the Ohio Valley	<u>The organization's first affiliate is an endowment fund that was established in December 2013 with an initial \$25,000 in seed money from Rice Energy. The fund has grown to \$170,000 and has awarded about \$40,000 to nonprofit entities in the county.</u>	\$40,000+
Belmont	PTT Global Chemical and Marubeni Corp.	An ethane "cracker" plant is planned for Mead Township along the Ohio River. PTT will spend \$100 million over a period of nine to 12 months on design and engineering before making a final decision to build the petrochemical facility. The project would bring hundreds of full-time, permanent jobs and thousands of temporary construction jobs. Expected to be operational in 2021.	\$5.7 billion
Belmont	Belmont College	The college has added a number of oil and gas-related degree programs, including Process Technician, Energy and Natural Resources, and Instrumentation.	Unknown

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<b>Belmont</b>	Cafaro Company	Two new extended-stay hotels are planned around the Ohio Valley Mall due to the needs of the oil and gas industry. Completion was expected in summer 2015. The 100-room Candlewood Suites opened in the summer of 2015. A 103-suite Residence Inn by Marriott is expected to open in 2016. Another hotel underway in the area in the fall of 2015 is the Hawthorn Suites.	Unknown
<b>Belmont</b>	Great Plains Oilfield Rentals (affiliate of Chesapeake Energy)	Drilling equipment rental business from Buckhannon, WV, moved its operations to St. Clairsville in October 2012 to be close to Chesapeake's drilling activity.	Unknown
<b>Belmont</b>	Jeru Real Estate	The 76-room Days Inn and Suites in Morristown opened in May 2014 as the "new company prototype" designed to meet the needs of the oil and gas industry. Also up and running are the Comfort Inn in St. Clairsville and the Microtel Inn & Suites. Others, such as Candlewood Suites and Residence Inn by Marriott, as well as additional property near the Hampton, remain under construction as of July 2015.	Unknown
<b>Belmont</b>	Kodiak Management	<u>A new 48-unit project at the site once home to "The Grove" restaurant will be developed primarily as a result of the housing demand created by workers in the oil and gas industry. As of July 2015, the two-bedroom apartments were expected to open soon. Another hotel, expected to join the Hampton Inn and the Microtel Inn &amp; Suites, is under construction.</u>	Unknown
<b>Belmont</b>	M&M Pump and Supply	Company is expanding due to the oil and gas industry in the Ohio Valley.	Unknown
<b>Belmont</b>	Oil & Gas Safety Supply Store	Pennsylvania retailer expanded into Ohio with its second store.	Unknown
<b>Belmont</b>	PetroChoice	Company opened a 19,000 square foot distribution center in Bridgeport in October 2014. As a provider of petroleum-based lubrication products and services, this new facility will improve service to the Utica region.	Unknown
<b>Belmont and Monroe</b>	Summit Midstream Partners and XTO Energy, Inc.	Natural gas gathering system "will consist of 115 miles of gathering pipeline with four compressor stations and will have the initial capacity of 500 million cubic feet per day." It was expected to be operational in the second half of 2015.	\$400 million
<b>Belmont, Harrison and Jefferson</b>	PVR Partners LP	Constructing a 45-mile natural gas gathering pipeline system for Hess Energy Corp.	\$125–150 million
<b>Butler</b>	NTE Solutions	The Middletown Energy Center, a natural gas-fired power plant, is expected to create 25-30 full-time jobs and 300-400 construction jobs. Announced in October 2015 that a financing deal had closed, and construction would begin "immediately." Expected to be operational in 2018.	\$645 million
<b>Carroll</b>	Carroll County Commissioners	Created a new assistant economic development director position to help manage the oil and gas industry's "significant interest" in Carroll County.	\$31,000/year

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<b>Carroll</b>	Carroll County Energy LLC	This subsidiary of Advance Power Services Inc. intends to construct a natural-gas fueled electric generation plant, which would produce enough electricity to power 700,000 homes. It would create 500 construction jobs and 25-30 full-time jobs. The company received its certificate from the Ohio Power Siting Board in March 2015, and construction is expected to begin in 2015, with operations starting in 2017.	\$899 million
<b>Carroll</b>	Iron Eagle	<del>Youngstown-based equipment rental company began operations at its new recycling plant, which is capable of recycling 588,000 gallons of wastewater per day and is expected to employ 50 people. Managed by Canton-based RETTEW Flowback (RFI). Closed spring 2014.</del>	<del>"Several million-dollars"</del>
<b>Carroll</b>	Newell Realty	Local small business has begun offering and managing rental properties as a result of oil and gas workers' demand for permanent housing.	Unknown
<b>Carroll</b>	Tervita Corp. and Chesapeake Energy	Tervita is building a water treatment plant for Chesapeake Energy. Tervita, LLC, a subsidiary of Tervita Corporation, was acquired in December 2014 by a subsidiary of Republic Services. It is unclear whether this has had an impact on the water treatment plant.	Unknown
<b>Columbiana</b>	<u>South Field Energy LLC</u>	<u>1,100-megawatt natural gas-fired South Field Electric Generating Facility is in development due to the plentiful natural gas from the Utica Shale.</u>	<u>\$1.1 billion</u>
<b>Columbiana</b>	Anchor Drilling Fluids USA Inc.	Opened a drilling fluids production facility within the Columbiana County Port Authority's Wellsville Intermodal Industrial Park; leased an additional acre on a month-to-month basis for \$1,250 per month.	Unknown + \$1,250 per month
<b>Columbiana</b>	Arrowhead Utica Pipeline LP (Hilcorp Energy Co. subsidiary)	Constructing a gas transfer plant at the Wellsville Intermodal Facility. Expected to create between 30 and 50 jobs.	\$20-40 million
<b>Columbiana</b>	California Investors	Planning to construct a hotel in Salem that is focused on supporting the oil and gas industry with lockers and mudrooms.	Unknown
<b>Columbiana</b>	Consol Energy	<del>Leasing of office space at the Columbia County Port Authority's industrial park in Leetonia. Relocated to St. Clairsville in July 2014.</del>	<del>Annual lease payments: \$160,000</del>
<b>Columbiana</b>	FirstEnergy Corp.	Completed a transmission project to deliver power to the Utica East Ohio Midstream, LLC processing plant in Kensington.	Unknown
<b>Columbiana</b>	Marathon Petroleum Corp.	3.6-acre property purchased at the Wellsville Intermodal Facility to be used as a truck offloading facility and a pipeline to transport the oil and gas to storage tanks that Marathon already has at the industrial park.	\$2.4 million
<b>Columbiana</b>	Mule Sidetracks LLC	A subsidiary of MarkWest Energy Partners LP bought the Youngstown & Southern Railroad. The Y&S Railroad Co. will continue to operate it, and the Columbiana County Port Authority retained the mineral rights to the 36-mile short line.	\$3 million

<b>Columbiana</b>	U.S. Silica	Modified existing buildings and equipment at its East Liverpool location to accommodate the storage of a kind of silica known as Northern White frac sand.	Unknown
<b>Columbiana</b>	Utica East Ohio Midstream LLC (M3 Midstream joint venture with Chesapeake Midstream and EV Energy Partners)	The “three-plant processing complex” includes a cryogenic plant in Columbiana County (Kensington), a fractionation facility in Harrison County (Scio), and a cryogenic plant in Carroll County (Leesville).	\$1.6 billion
<b>Columbiana and Mahoning</b>	Pennant Midstream LLC (Hilcorp Energy Co. and NiSource Inc. partnership)	Built a 55-mile wet gas gathering pipeline system in northeast Ohio and western Pennsylvania to transport wet gas to the Hickory Bend cryogenic natural gas processing plant in Mahoning County. Operations began in August 2014, and the processing plant is capable of processing up to 200 MMcf/d of natural gas liquids.	\$375 million
<b>Coshocton</b>	Buckeye Brine LLC	After only about a year of operation, the company began constructing its second disposal well, and it sought a permit for a third well in mid-2014. Its water recycling facility began limited operations in early 2015.	\$1 million (second well) + \$1.5 million (third well)
<b>Coshocton, Morgan, Muskingum and Perry</b>	MidAmerican Global Ventures	In September 2014, MidAmerican Global received approval to operate as an EB-5 Regional Center. Through the program, MidAmerican would promise “citizenship to foreign investors who make minimum investments of \$1 million in commercial enterprises that create at least 10 new full-time jobs.” As of September 2014, the plan was to host workshops and meet with developers, business owners, investors and other lenders.	Either \$500,000 or 10 jobs for each project
<b>Cuyahoga</b>	Abakan Inc.	Launched a new Euclid-based subsidiary, Terves Inc., to commercialize the trademarked TervAlloy technology for well operations. Also incorporated a new subsidiary, MesoCoat Coating Services Inc., also in Euclid, to provide thermal spray coating services that combat the corrosion and wear of components in the oil and gas industry.	Unknown
<b>Cuyahoga</b>	Case Western Reserve University	The Shale Energy Research and Education Center was created.	Unknown
<b>Eastern Ohio</b>	Boenning & Scattergood Inc.	Philadelphia- based investment banking firm launched the Shale Community BanFund LP in May with \$10 million in capital, which it intends to use for eastern Ohio banks that are in need of capital.	\$10 million
<b>Eastern Ohio</b>	Corporex Capital LLC	Kentucky-based company has five hotel projects planned to meet the demand created by the shale boom. Projects include a \$13 million Fairfield Inn in south Canton and a \$13.3 million Candlewood Suites in Carrollton, both of which are currently under construction. Also planning a hotel in Canton and one in St. Clairsville. Working to raise a \$23 million equity fund to accompany the construction of all five hotels.	\$26.3 million (so far)
<b>Eastern Ohio</b>	Marathon Petroleum Corp.	Evaluating right-of-way options for its MPLX LP subsidiary to construct the 49-mile, eight-inch Cornerstone Pipeline to transport natural gas liquids after connecting to natural gas processing plants and liquids fractionation plans in Harrison and Carroll counties. Completion expected in late 2016. In June 2015, the company began to build the infrastructure by expanding storage capacity with the addition of another container at its East Sparta Tank Farm. The new tank will be part of the Cornerstone Pipeline, and it will have a 105,000-barrel storage capacity.	\$140 million

<b>Eastern Ohio</b>	Marathon Petroleum Corp. and Price Gregory	<u>A 52-mile, 16-inch pipeline from Cadiz to Canton will create 400 jobs in the Dover area. Price Gregory is leasing 20 acres directly across from the Clarion Warehouse, which will serve as headquarters for the project.</u>	<u>At least \$1 million per week (projected payroll)</u>
<b>Fairfield</b>	Westerman Cos. (a division of Worthington Industries)	Expanding its oil and gas equipment supply facility and creating 24 jobs.	\$3.5 million
<b>Franklin</b>	Capital University Law School	Established a new Energy Law and Policy Concentration to cover laws and policies concerning energy law, oil and gas, hazardous waste and the environment. Also established the Midwest Center for Energy Law and Policy (MCELP) to aid collaboration among experts within the energy sector.	Unknown
<b>Franklin</b>	City of Columbus	Columbus' second compressed natural gas fueling station will be the largest open to the public in the state. As of August 2014, a total of eight CNG stations operate in the Columbus metro area (22 in the state); Ohio companies and government officials are eager to adopt CNG, partially because of the plentiful supply of gas from the Utica and Marcellus shale.	\$6.4 million
<b>Franklin</b>	Multiple	Central Ohio firms have expanded or adjusted their services to meet the demands of the shale boom. (Joe Knows Energy, Worthington Industries Inc., Kokosing Construction Company Inc., Hull & Associates, Inc., Bricker & Eckler LLP, Surveying & Mapping Inc. and S&ME Inc.)	Unknown
<b>Franklin and Lucas</b>	United Parcel Service (UPS)	Building two LNG fueling stations, one in Columbus and one in Toledo, as part of its plan to build nine additional LNG fueling stations across eight states.	\$50 million (total)
<b>Guernsey</b>	TestAmerica	<u>Opened a new service center facility in Cambridge in response to "the continued growth and success in the Southeast Ohio region."</u>	Unknown
<b>Guernsey</b>	PKH Cambridge Hotel II LP	Pennsylvania-based investor group financed a new, 71-room Sleep Inn & Suites. Also bought the nearby Comfort Inn.	At least \$2.7 million
<b>Guernsey</b>	Potesta & Associates, Inc.	West Virginia-based engineering and environmental consulting company opened a new branch office in Cambridge to assist clients in the Utica and Marcellus shale areas.	Unknown
<b>Guernsey</b>	Price-Gregory	As many as 350 employees will install eight miles of 30-inch pipeline as part of Rice Midstream's "Zeus" pipeline project. For an estimated four months, the company will occupy the former Modern Builders Supply facility in Cambridge.	Unknown
<b>Guernsey and Harrison</b>	Hartley Co.	Company is building its first CNG station and reopening a closed gas station as a result of the shale boom.	Unknown
<b>Hamilton</b>	Industrial Piping Specialists, Inc.	Building its 12th U.S. warehouse in Loveland due to the city's location in the middle of the local and regional energy boom. Ten will be employed there, which could climb to 30 within a year.	\$10 million

<b>Hamilton</b>	Team Industrial Services	Building a new 10,400 square foot office and warehouse facility in Loveland due to the city's central location in the oil and gas boom. New facility will allow the addition of about 10-20 new skilled workers.	Unknown
<b>Hardin</b>	Trillium CNG and Heritage Co-operative	Companies partnered to open a CNG fueling station in Kenton as part of Heritage's Kenton Agriculture Campus Expansion.	\$7 million (total)
<b>Harrison</b>	Harrison Development LLC	<u>One of two hotels planned for Cadiz, an 81-room Microtel Inn &amp; Suites by Wyndham, opened in June 18, 2015 in response to the Utica shale oil and gas boom.</u>	Unknown
<b>Harrison</b>	Anonymous	Paid to digitize Harrison County Recorder's records.	Unknown
<b>Harrison</b>	MarkWest	Moved administrative offices onto five acres at the Cadiz Industrial Park across the street from their Cadiz cryogenic facility.	\$100,000+
<b>Harrison</b>	WHPacific Inc.	Alaska-based engineering, architectural and planning firm opened an office in Cadiz to provide services to clients within the oil and gas industry.	Unknown
<b>Harrison and Licking</b>	Columbus & Ohio River Rail Road Co. (wholly-owned subsidiary of Genesee & Wyoming Inc.)	Entered into service agreement to serve new NGL hub in Scio. Plans to rehabilitate a three-mile storage track and construct a one-mile rail to serve the midstream service complex (expected to ship 10,000 carloads of NGLs each year for more than 80 customers).	Unknown
<b>Harrison and Noble</b>	MarkWest (in partnership with Antero Petroleum and Energy and Minerals Group [EMG])	<ul style="list-style-type: none"> <li>• <b>Gathering</b> – 700 MMcf/d gathering capacity</li> <li>• <b>Processing</b> – 925 MMcf/d cryogenic processing capacity (Cadiz and Seneca) <ul style="list-style-type: none"> <li>– 600 MMcf/d cryogenic processing capacity under construction at the Cadiz and Seneca facilities (expected to be operational in 2015)</li> </ul> </li> <li>• <b>Fractionation</b> – 120,000 Bbl/d of shared C3+ (propane) fractionation capacity at Hopedale complex as of December 2014 and 40,000 Bbl/d C2 (ethane) fractionation capacity at Cadiz complex</li> <li>• <b>Condensate Stabilization</b> – 23,000 Bbl/d condensate stabilizer began operations in the fourth quarter of 2014, associated logistics and storage capabilities <ul style="list-style-type: none"> <li>– 60,000 Bbl/d of shared C3+ fractionation capacity under construction at Hopedale complex (expected to be operational in first quarter of 2016)</li> </ul> </li> <li>• <b>Other</b> – various pipelines connecting facilities to each other and interstate pipelines</li> </ul>	\$1.5 billion + \$10,000/month for 15 years
<b>Jefferson</b>	Buckeye Local School District	<u>Plans are being formulated to officially establish the Ohio Valley Energy Technology Academy within the Buckeye Local School District.</u>	Unknown
<b>Jefferson</b>	Eastern Gateway Community College	Established a new natural gas and oil technology certificate as well as a gas industry operation and maintenance technician certificate. In July 2015, state funding was secured for scholarships under the Energy Sector Scholarship Pilot Program in 2016 and 2017.	\$5,300/student; \$100,000 for scholarships

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<b>Jefferson</b>	Esmark, Inc.	Company plans to convert the former Ohio Cold Rolling Company steel mill in Yorkville "into a transportation and logistics hub to serve the Marcellus and Utica shale plays."	Unknown
<b>Jefferson</b>	Heavy Duty Industrial	After one year in operation serving the oil and gas industry, the company expanded from its Wintersville location to a warehouse facility in Empire. Hired 40 employees as part of the expansion with plans to hire around 40-50 more.	Unknown
<b>Jefferson</b>	Utica Shale Academy of Ohio	Charter school to be located in and governed by the Jefferson County Educational Service Center. For grades 9-12, it opened its first class September 3, 2014.	Unknown
<b>Lawrence</b>	Ergon Inc.	Company has purchased seven parcels of land in Ironton for use as a petroleum storage facility. "The Ironton facility improves Ergon's ability to purchase and transport crude oil in the Ohio Valley region."	\$7.02 million
<b>Licking</b>	PDC Energy	<u>Donated to the Ohio Oil and Gas Energy Education Program (OOGEEP) for the organization's firefighter training program.</u>	\$20,000
<b>Lorain</b>	NRG Energy, Inc.	In September 2015, the company dropped its plans to build the \$40 million pipeline necessary to convert the NRG Power Plant in Avon Lake to natural gas. For now, the company will continue to burn coal but will add new pollution controls in 2016 to meet federal rules while continuing to "negotiate easements and seek other construction permits." A company spokesman said, "The decision to remain on coal does not preclude doing gas down the road."	Undisclosed
<b>Lorain</b>	U.S. Steel / Republic Steel	<del>Joint project with Lorain Tubular to produce 6-inch diameter steel casing for shale development. Semi-finished steel leftover from the shuttering of Republic's blast furnace in 2008 will be used to make the casings at the Lorain Tubular facility, which is adjacent to the Republic plant. It was announced that this plant would be idled in January 2015.</del>	\$100 million
<b>Lucas</b>	BP-Husky Refining LLC	Upgraded its facility to process Alberta, Canada-grade crude oil.	\$400 million
<b>Lucas</b>	North American Project Development LLC	Plans to build an 800 MW natural gas-fired electric generation plant on a more than 30-acre site in Oregon, Ohio. The Oregon Clean Energy Center is projected to create 400-600 construction jobs and 25 full-time jobs. Received Ohio Power Siting Board approval in March 2015 and scheduled for completion in 2017.	\$994 million
<b>Lucas and Wood</b>	North Coast Gas Transmission, LLC, a subsidiary of Somerset Gas Transmission Co., LLC	Gained approval for a 24-inch, 22-mile pipeline, the Oregon Lateral, from Maumee to Oregon to supply natural gas to the Oregon Clean Energy Center. Completion is expected in July 2016.	Undisclosed
<b>Mahoning</b>	The Forza Group	<u>A 70-plus room Holiday Inn Express opened in Salem in July 2015. The only lodging option in the city, the oil and gas industry was a major driver in the company's decision to invest in the area.</u>	Unknown
<b>Mahoning</b>	"O" Ring CNG Fuel Systems LP	Pennsylvania-based company partnered with Dearing Compressor to develop a new CNG fuel station near its Youngstown manufacturing plant. Recently broke ground on a station in Marion County.	\$2.3 million per station

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<b>Mahoning</b>	Blue Racer Midstream LLC	Plans to construct a multi-million-dollar natural gas processing plant. Company would like to begin construction on the plant just outside Petersburg in Springfield Twp by September 2015. It could be operational in June 2016. This project was cancelled in January 2015.	\$70 million
<b>Mahoning</b>	FirstEnergy Corp.	Company has installed a 3.5-mile, 138-kV transmission line to serve a natural gas processing plant in Springfield Township in its "efforts to support the growing shale gas industry in Ohio."	\$3 million
<b>Mahoning</b>	Industrial Waste Control Inc. and Austin Master Services LLC	Industrial Waste Control Inc. was granted a permit by ODNR to contract with Austin Master to begin testing incoming drilling waste in Youngstown. "Austin Master will provide the radiological expertise necessary to design a treatment process for drilling waste found to have radioactive properties. This facility, located less than a mile west of YSU, will potentially provide jobs for graduating YSU engineers."	Unknown
<b>Mahoning</b>	Mahoning County/Consol Energy	Mahoning County approved a deal to sell Consol Energy up to 500,000 gallons of water per day at a rate of \$6 per 1,000 gallons. Consol will use the water for a shale well in North Jackson.	Possible \$90,000 per month
<b>Mahoning</b>	Plumbers and Pipefitters Local 396	Training program aimed at experienced welders who need to learn new skills specific to pipe welding in the oil and gas industry. The training is funded by the Appalachian Regional Commission and the union's training department.	Total of two matching grants: \$130,530
<b>Mahoning</b>	U.S. Petroleum Exploration	Investors from the Mahoning Valley and Canada created this startup company, which offers project management services for drilling operations. Headquartered in Canfield and it employs 25 people.	Unknown
<b>Mahoning</b>	UA Local Union No. 396	Money from the Ohio Appalachian Development Grant program will train welders and pipefitters in the Mahoning Valley for jobs in Ohio's Utica shale region.	\$150,000
<b>Marion</b>	Union Tank Car Co.	<u>The company will add a second facility in Marion that will create 200 new jobs over the next three years. The expansion was driven in part by new federal guidelines for crude oil tank cars. The Ohio Tax Credit Authority approved a 55 percent, five-year tax credit for the creation of \$8,272,000 in new annual payroll.</u>	At least \$8,272,000 in new annual payroll
<b>Medina</b>	Blair Rubber Co.	Company undertook a 50,000-sq.-ft. expansion of its plant in Seville partially due to the increased use of rail by the fracking industry. This expansion nearly doubled the facility's size.	Unknown
<b>Meigs</b>	GreenHunter Water, LLC (wholly-owned subsidiary of GreenHunter Resources, Inc.)	The Mills Hunter Facility, a new salt water disposal facility located along the Ohio River in Meigs County, has the potential to inject more than 3,000 barrels per day of oilfield brine. The company is waiting for permission to ship brine on the Ohio River before constructing a barge receiving terminal and pipeline infrastructure to supplement its operations in Wheeling, West Virginia, and New Matamoras. The comment period was extended by the US Army Corps of Engineers until August 24, 2014. As of May 2015, the Coast Guard had not given the company permission to transport such waste water by barge. Despite this, the company planned to begin operations in September 2015.	Unknown
<b>Monroe</b>	Appalachian Resins, Inc.	Company has signed an agreement to lease 50 acres from the Monroe County Port Authority for a proposed "cracker" plant close to Clarrington. The plant would employ 150-200 workers, and it could be complete in 2018. Announced in September 2015 that a shortage of labor has caused this project to be put on hold.	\$1 billion (estimated)

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Monroe	Blue Racer Midstream	The Berne cryogenic natural gas processing complex is capable of holding three plants, each processing 200 million cubic feet per day. Berne I became operational in January 2015, and Berne II was placed into service in June 2015. Each plant has 200 MMcf/d of processing capacity. Plans to construct the Lewis processing plant in Harrison County are also moving forward.	Unknown
Monroe	EQT Corp.	The Ohio Valley Connector pipeline system will be expanded. An additional 36 miles of pipeline will extend the system from northern West Virginia to Clarington, Ohio, which will then connect with the existing Rockies Express and Texas Eastern pipelines. Construction of the expansion is scheduled to begin in the third quarter of 2015, and it is expected to be in service by mid-2016.	\$415.5 million (total)
Monroe	Hannibal Real Estate LLC	Building a new steel mill inside the building that once housed the Ormet Aluminum Rolling Mill "to support the burgeoning oil and natural gas industry." Officials believe it could create approximately 50 jobs.	\$30 million
Monroe	Sardis-Appalachian Oilfield Services	The company now employs 150, over 40 of them former Ormet workers. "Services include industrial tank cleaning, environmental response/clean-up services and transportation of non-hazardous drilling waste products."	Unknown
Monroe	Wildcat Minerals	Company opened a new frac sand and proppant transloading storage facility in Hannibal in October 2014 to serve drilling and fracking operations in the Utica. It is the company's first transloading terminal in Ohio and its first barge-capable facility.	Unknown
Monroe and Noble	E2 (Partnership consisting of Crosstex Energy Inc., Crosstex Energy LP and former management of Enerven Compression Services)	Plans to build, own, manage and operate three compressor stations and condensate stabilization facilities in the Ohio River Valley.	\$75 million
Montgomery	TRI-MONT Engineering Co.	Massachusetts-based engineering and consulting firm expanded into the Midwest with a new, 1,600-square foot office in Dayton aimed at pursuing opportunities in the oil pipeline network and the state's emerging alternative fuel market.	Unknown
Multiple	Sunoco Logistics	<u>As part of its Mariner East 2 project, the company plans to build two 350-mile pipelines through Ohio and West Virginia to the Marcus Hook Industrial Complex. As of June 2015, the company is evaluating its options to build the second line based on demand.</u>	Unknown
Multiple	American Electric Power (AEP) Company Inc.	Columbus-based utility reported increased growth in industrial sales in shale regions during second quarter of 2014 due to the electricity needed by oil and gas companies to power their operations. Industrial sales increased by 23 percent in the last quarter of 2014.	Unknown
Multiple	Columbia Pipeline Group (subsidiary of NiSource, Inc.)	Company plans to build the Leach Xpress, a 161-mile pipeline through Ohio, West Virginia, and Pennsylvania to transport natural gas in addition to three compression stations in Ohio and West Virginia. Pipeline will increase the capacity of Columbia's gas delivery system by 1.5 billion cubic feet of gas per day. It will be supported by long-term agreements with oil and gas producers. Hopes to obtain regulatory approvals and begin construction by the fall of 2016 and start operating the new system by the end of 2017. Will run through 10 Ohio counties. In addition, "Primary receipt points for the company's Mountaineer Xpress gas are in Monroe and Noble counties, which are home to processing facilities." Expected to be operational in late 2018.	\$1.75 billion (total)

<b>Multiple</b>	DTE Energy, Spectra Energy Corp. and Enbridge Inc.	Proposed construction of the NEXUS Gas Transmission system for transporting up to two billion cubic feet of natural gas per day from the Utica and Marcellus shale through Detroit and into southern Ontario. Expected to begin service as early as the fourth quarter of 2017, assuming it is approved by the Federal Energy Regulatory Commission. Proposed pipeline would run east and west through 11 Ohio counties.	\$2 billion
<b>Multiple</b>	Energy Transfer Partners (ETP)	ETP expects to construct a 314 km segment from the Defiance area through Michigan and ultimately to the Union Gas Dawn Hub (Dawn) near Sarnia in Canada, providing producers with access to diverse markets and end-users in Michigan and Canada with access to Marcellus and Utica supplies. ETP plans to have initial service to the Midwest Hub located near Defiance and Gulf Coast markets by the fourth quarter of 2016, and the remaining service to markets in Michigan and Canada by the second quarter of 2017. The first leg of the 365-mile Rover Pipeline Project would run from Carroll County, through Tuscarawas, Stark and Wayne counties to Defiance; this line could be operational by December 2016.	\$4.4 billion
<b>Multiple</b>	EnLink Midstream Partners, LP and EnLink Midstream, LLC	Plans to construct the Ohio River Valley (ORV) Condensate Pipeline, a 45-mile, eight inch condensate pipeline, and six natural gas compression and condensate stabilization facilities that will service major producer customers in the Utica Shale. The pipeline "will transport condensate from points in Harrison, Belmont, Guernsey, Noble, Monroe, and Washington Counties, Ohio to Bells Run Station in Washington County, Ohio; Black Run Station in Muskingum County, Ohio; and, if Ohio River Valley Pipeline, LLC elects to construct extension(s) of its system, to one or more connecting facilities in Holmes, Coshocton, and Harrison County, Ohio." The pipeline is expected to be completed in the second half of 2015, and the remaining four facilities are expected to be operational by the end of 2015.	\$250 million + \$87 million with Ohio-based companies for related goods and services
<b>Multiple</b>	Enterprise Products Partners	Constructed the 1,230-mile Appalachia to Texas (ATEX) pipeline from Pennsylvania to Texas, 265 miles of which run through Butler, Clinton, Coshocton, Fairfield, Fayette, Greene, Harrison, Jefferson, Licking, Muskingum, Pickaway, Tuscarawas and Warren counties in Ohio. Commercial service began in January 2014.	\$1+ billion
<b>Multiple</b>	FirstEnergy Corp.	"Energizing the Future" transmission initiative will enhance service reliability by using remotely controlled smart technology. Designed in part to increase FirstEnergy's load serving capability in areas where future growth is anticipated, particularly in Ohio's shale gas regions.	\$2.8 billion
<b>Multiple</b>	Kinder Morgan Energy Partners LP	Kinder Morgan subsidiary signed an agreement with NOVA Chemicals Corp. to develop, construct, own and operate the 210-mile, 10-inch diameter Utica to Ontario Pipeline Access (UTOPIA) system to transport natural gas liquids from multiple fractionation facilities in Harrison County to Canada. "Pending commitments by drillers and federal approval," the pipeline could be in service by early 2018.	\$300 million
<b>Multiple</b>	Kinder Morgan Energy Partners LP and its partner, MarkWest Utica EMG LLC	Proposed Utica Marcellus Texas Pipeline (UMTP) Project would carry natural gas liquids from Ohio to the Gulf Coast. The new pipeline will have a maximum design capacity of 375,000 bpd. Expected in-service date is in the fourth quarter of 2018. The Abandonment and Capacity Restoration Project involves repurposing "older, vintage, mainline pipeline facilities between Natchitoches Parish, Louisiana, and Columbiana County, Ohio."	Estimated \$1 billion (total)
<b>Multiple</b>	Land Stewards LLC	Hired to serve as an ombudsman and land steward for the Rover Pipeline. The company will "look out for landowners in 18 Ohio counties by preventing and correcting pipeline-related problems," and will monitor the pipeline for two years after completion.	Unknown

<b>Multiple</b>	Regency Energy Partners LP and American Energy – Midstream, LLC	The Ohio River System (ORS), formerly the Utica Ohio River Project, is a 52-mile, 36-inch gathering trunkline that has overall system deliverability of 3.5 Bcf/d. ORS would deliver up to 2.1 Bcf/d to Rockies Express Pipeline and Texas Eastern Transmission on the southern end of the line, and 1.4 Bcf/d through a 12-mile, 30-inch diameter lateral to the interstate grid on the northern end of the line. It was expected to be completed in the third quarter of 2015. In addition, RGP and American Energy – Utica, LLC (AEU) will enter into a gathering agreement for gas produced from the Utica Shale in eastern Ohio by AEU.	\$500 million (total)
<b>Multiple</b>	Solid Waste District	The Solid Waste District serving Columbiana, Carroll and Harrison counties is one of the indirect beneficiaries of the drilling boom in eastern Ohio. 77 percent of the solid waste disposed of at designated landfills is drilling mud, a byproduct of the drilling process. SWD revenue reached a record \$1.69 million last year, up more than \$1 million from just two years before.	At least \$1 million
<b>Multiple</b>	Spectra Energy	Proposed Ohio Pipeline Energy Network (OPEN) would run through Columbiana, Carroll, Harrison, Jefferson, Belmont and Monroe counties. The 76-mile pipeline would run from the M3 Midstream gas collection and processing plant outside Hanoverton to Monroe County near the Ohio River at a rate of 550 million cubic feet of natural gas per day. Project includes a compressor station. Federal Energy Regulatory Commission (FERC) approval was obtained in December 2014, and it is hoped that the project will be complete by the end of 2015.	\$468.5 million
<b>Multiple</b>	Spectra Energy Partners	Uniontown to Gas City Project will transport 425 million cubic feet per day from Uniontown, Pennsylvania, to the existing interconnect with the Panhandle Eastern Pipe Line system near Gas City, Indiana, for further redelivery to markets in the Midwest. The project entered full service two months ahead of schedule in September 2015.	Unknown
<b>Multiple</b>	TransCanada Corp.	Proposed 500-mile ANR Pipeline would extend from Monroe County through Knox and Morrow Counties to Bridgman, Michigan, along the Great Lakes. Proposed pipeline would have a capacity of 1.2 billion to 2 billion cubic feet of gas per day. Scheduled to be operational in the third quarter of 2017.	Unknown
<b>Multiple</b>	Williams Cos. Inc. and Boardwalk Pipeline Partners LP	<del>Proposed Bluegrass Pipeline would transport NGLs from the Marcellus and Utica shale plays to export terminals in the Gulf Coast. In service date pushed back from 2015 to mid-to-late 2016. Suspended in April 2014 due to lack of interest.</del>	\$1.5 billion
<b>Muskingum</b>	Crosstex Energy	Reactivation of its Black Run rail loading terminal facility in Frazeytsburg marks the “first facility to move light oil condensate out of the region to the premium-priced refinery and petrochemical markets.” Facility features a 20-car rail rack with tracking gangways designed to load multiple products, including light oil condensate and various grades of crude oil, at a rate of 24,000 barrels per day.	\$6 million
<b>Muskingum</b>	Halliburton Energy Services	Established a facility in Zanesville’s Eastpointe Industrial Center. In 2012, the company announced a commitment to create 300 jobs at the facility by 2015, 70 percent of which will be filled locally.	\$35–50 million
<b>Muskingum</b>	Producers Services Inc.	Expanded from conventional oil and gas well services to large-scale hydraulic fracturing operations. Acquired new equipment and more than doubled its workforce from 40 to 100 employees.	Unknown

<b>Noble and Harrison</b>	Drill Capital	A three-story 80 room Wyndham hotel opened in Caldwell in March 2015. Another hotel, an 80-room Days Inn and Suites, in Cadiz (Harrison County) is under construction and could open by the end of 2015.	\$5.2 million
<b>Scioto</b>	Spectra Energy	<u>Plans to expand natural gas lines running through Wheelersburg. Once approved, Scioto County "will be one of six communities to receive a bi-directional compression station."</u> <u>The Texas Eastern Transmission runs 9,022 miles and has a capacity of 9.4 billion cubic feet.</u>	Unknown
<b>Stark</b>	Tiger Sand & Gravel	<u>Company will supply concrete sand for the Rover Pipeline.</u>	\$4.4 million
<b>Stark</b>	Baker Hughes Inc.	Oilfield services company's Massillon regional hub is near the NEOCom industrial park. Expected to create up to 65 jobs. It was announced that Haliburton would buy Baker Hughes in November 2014, and it was unknown whether the Massillon facility would be needed in the future. As of September 2015, the companies were attempting to sell businesses as they sought regulatory approval for the merger.	\$10 million
<b>Stark</b>	GE Oil & Gas (wholly-owned subsidiary of GE)	Constructed a 24,000-square-foot facility at the Mills Business Park in Canton that is expected to create 34 jobs. The industrial service center will serve as a regional hub for GE's Marcellus and Utica shale operations.	\$4.87 million
<b>Stark</b>	Kimble Companies	Company opened a CNG station in Canton; Kimble also operates a private time-fill CNG station in Twinsburg Twp, built in 2012. The Canton station has an initial 56 fill posts, expandable to 78, which includes public-access fast-fill CNG capacity. As of July 2015, the company plans to open a CNG station in Dover, where it is headquartered, and Cambridge.	Unknown
<b>Stark</b>	Republic Short Line	Beginning January 2015, the former Republic Steel property is being revived to potentially become the largest pipe yard in the country. Preparations are being made for rail delivery and storage of 600 miles of pipe for natural gas development in Ohio, Michigan, and Canada.	At least \$4 million
<b>Stark</b>	Stark State College	The 7,000-square-foot Well Site Training Center, an indoor-outdoor shale drilling lab to train oil and natural gas workers, opened its doors August 21, 2014. The Ohio Controlling Board released nearly \$2.6 million in two grants to renovate the Downtown Canton Satellite Center and Energy Institute, where classes began January 2015. Access Midstream donated \$12,000 worth of safety supplies to the school.	\$8.2 million (satellite center)
<b>Stark</b>	Timken Steel Corp.	Due in part to increased demand as a result of oil and gas drilling, its Faircrest plant saw a \$200 million investment for a jumbo bloom vertical caster and its Gambrinus facility is receiving \$40 million in upgrades. <u>The decline in oil and natural gas drilling has led to layoffs at Timken Steel.</u>	\$240 million
<b>Stark</b>	U.S. SafetyGear	Company opened its sixth Ohio safety gear store in response to demand from gas and oil workers.	Unknown

<b>Stark</b>	Wheeling & Lake Erie Railway Co.	Increased and diversified customer base as a result of the shale boom. Transformed this railroad from a business loaded with debt and barely surviving into an \$80 million per year business. Company now has 60 locomotives (3x as many as 20 years ago) and updated track.	Unknown
<b>Stark</b>	Woolpert	National architecture, geospatial and infrastructure firm opened a Canton office to support growth within the firm's oil and gas division.	Unknown
<b>Summit</b>	Amerimar Inc.	Company secured a one-year option to buy the 100-year-old former Firestone offices and tire plant, as well as the Greystone Hall building, to capitalize on the demand for office space for administrative, engineering, and research jobs linked to oil and gas drilling in Ohio's Utica shale. Company is seeking \$40 million in tax credits; Akron City Council approved historic designations so that the buildings are eligible for tax credits.	\$5 million
<b>Summit</b>	Polystar Containment	Moved from Twinsburg to larger facilities in Stow in order to meet the growing demand for secondary containment and spill prevention products and systems for multiple industries, including shale-related operations.	Unknown
<b>Trumbull</b>	Aim NationaLease	National provider of commercial truck leasing and contract maintenance services established an affiliate, Aim Services Co., from its headquarters in Girard to provide oil and gas transportation services – particularly water – in Ohio and Pennsylvania.	Unknown
<b>Trumbull</b>	Appalachian Railcar Services Inc.	Relocated one of its fixed locations from Lordstown to the Warren Depot to offer onsite railcar work and mobile crew services to the growing rail traffic that is moving through the area as a result of shale development. The company will have 15,000 linear feet of rail on which to work at the Warren Depot, as well as 200,000 feet of warehouse space that it plans to lease.	Unknown
<b>Trumbull</b>	Associated Landowners of the Ohio Valley	Paid to have the Trumbull County recorder's office's records scanned and digitized at no cost to the county.	\$253,877
<b>Trumbull</b>	BP America	Converted a former FedEx distribution center located in the Youngstown Commerce Park into its new Utica Operations Center.	Unknown
<b>Trumbull</b>	BP America	BP America provided an initial \$50,000 to Trumbull County to lease the Defined STEM program for students for two years. It provided another \$50,000 to extend the program an additional two years through 2016.	\$100,000
<b>Trumbull</b>	Exterran Holdings Inc.	Opened oil and gas equipment plant that is expected to employ 120 people and will manufacture production equipment used to treat and process oil and natural gas.	\$13.2 million
<b>Trumbull</b>	FracTracker Alliance	Opened a new office in space provided by nonprofit incubator.	2-year, \$130,000 grant
<b>Trumbull</b>	Halcon Resources	Planning a new oil storage and rail-transloading terminal at the Ohio Commerce Center. Expected to create 30 full-time jobs.	\$70 million

<b>Trumbull</b>	IGS CNG Services	The company's eighth public compressed natural gas fueling station in Weathersfield Township opened July 2014.	Unknown
<b>Trumbull</b>	Legacy Measurement Solutions Inc. (formerly J-W Measurement Co.)	Texas-based company expected to create 150 jobs upon moving into a new, 73,000-square foot facility in Brookfield Township where it will engineer gas-measurement equipment and provide supplies and services to the oil and gas industry. Received a 55 percent, seven-year tax credit from the Ohio Tax Credit Authority for the company to create \$6.8 million in annual payroll at the location.	Unknown
<b>Trumbull</b>	Perni & Perni Equities LLC	Planned to construct a new, 87-room Comfort Suites Hotel and possible conference center. Expected completion date was March 2015.	\$6.5 million
<b>Trumbull</b>	Savage Services	Opened rail services at the Ohio Commerce Park in Lordstown. Transloads bulk materials to and from railcars, manages materials flow and manages safe rail operations.	Unknown
<b>Trumbull</b>	Valerus and Brilex Industries LLC	Brilex added 10 jobs in 2013 at its Andrews Avenue plant to accommodate additional business coming from its new partnership with Valerus for manufacturing oil and gas production equipment.	Unknown
<b>Trumbull</b>	Vallourec (formerly known as V & M Star)	Constructed a new seamless pipe mill. Construction of the new pipe threading plant, to be used by its VAM USA subsidiary, began operating in May 2015. State tax credit terms include an agreement to hire at least 80 employees.	\$1.2 billion + \$81.6 million
<b>Trumbull</b>	VEC/Evets Electrical Inc.	Tripled capacity and added 30 jobs.	\$2.5 million
<b>Trumbull</b>	Warren Steel Holdings LLC	"The resurgence of oil and gas exploration in the Marcellus and Utica shale plays has driven additional steel consumption, which puts the Warren mill in a choice place to grow." Employment was expected to eventually reach about 300. As of February 2015, demolition of the former RG Steel plant continued, but the former administration building was donated to the Tech Belt Energy Innovation Center (TBEIC) for startup companies in energy and natural resources.	Unknown
<b>Trumbull</b>	Weatherford Artificial Lift Systems Inc. (subsidiary of Weatherford International Ltd.)	Built a multi-purpose oil and gas operations facility that will train and employ about 150 people.	\$3.4 million+
<b>Trumbull</b>	Clean Energy Future LLC	Proposed 800 MW natural gas-fired power plant in Lordstown, Ohio. Approval received from the Ohio Power Siting Board in September 2015.	\$800 million
<b>Tuscarawas</b>	American Refining Group, Inc. (ARG) and Campbell Construction, Inc.	One of ARG's Ohio sites has expanded to a new, 9,136-square-foot facility at the Sandyville crude-oil terminal. The company broke ground in August 2014, and completion was expected by the end of February 2015.	\$1.2 million

Tuscarawas	Buckeye Career Center	Launched a new high school program in 2014-2015 called Energy Operations to provide training for the oil and gas industry.	Unknown
Tuscarawas	Hi-Tech Testing	Company is closing its Canton location and moving to a new Dover facility, bringing 50 job opportunities. The move was motivated in part by the movement of Ohio's oil and gas industry to the southeastern part of the state. Staff is expected to grow to 100 by the end of 2015.	Unknown
Tuscarawas	New Philly Hospitality, LLC	Two acres were purchased for the construction of a four-story extended stay hotel partially geared toward attracting oil and gas workers. The hotel, part of the Hilton chain, will have 106 rooms. Expected to break ground September 8, 2014.	At least \$400,000
Tuscarawas	Rutgers and Co.	Constructing a Microtel in Dennison to accommodate the oil and gas traffic heading to midstream plants in Leesville, Scio and Cadiz.	\$5 million
Tuscarawas	Schlumberger	Oil services firm established a permanent location in Strasburg with plans to hire 200 more employees.	Unknown
Tuscarawas	Select Energy Services	Constructed a well-site services facility in New Philadelphia.	Unknown
Washington	Heinrich Enterprises	<u>Proposed project would convert three wells along Ohio 676 into Class II brine injection wells.</u>	Unknown
Washington	J.C. Fodale	Oil and gas services company purchased the former Grout Hog facility. The company "offers services to oil and gas businesses, including safety equipment, containment berms, mud tanks and mud pumps, frac tanks and even environmental cleanup." About 25 truck drivers have been hired locally as of January 2015, and another 25 positions have yet to be filled.	Unknown
Washington	Marietta College	Created a new Land and Energy Management degree to prepare students for careers as landmen. Also created an Engineering Leadership certificate within its petroleum engineering program.	Unknown
Washington	MPH Hotels Inc.	Financed the construction of a 102-room Comfort Suites property in Marietta, partially to accommodate the increase in guests as a result of the oil and gas boom.	\$8 million
Washington	Peoples Bank	Established a new department that will be focused exclusively on providing financial services to upstream (exploration/production) and midstream (transportation/storage/marketing) energy companies.	Unknown
Washington	Southeastern Ohio Port Authority	The 35,000-square foot Ingenuity Center in Reno, a commerce park intended to serve as a feeder where smaller companies can grow before moving into privately owned developments, was completed in February 2014. The goal is that the oil and gas industry will move into the building and create around 25 new jobs.	\$2.2 million

\*Underlined items highlighted in orange are new. Stricken entries have experienced delays, cancellations, or layoffs.\*

<b>Washington</b>	Triad Hunter, LLC (subsidiary of Magnum Hunter Resources)	Opened a new office location in Marietta. Spent \$2.5 million to renovate the St. Clair Building into upscale loft apartments and office space. "Nine apartment units and three suites will house employees and executives of the local oil and gas company."	\$2.5 million
<b>Wayne</b>	Dragon Products	The company, a manufacturer of products for the oil and gas industry, will receive 50 percent tax abatement on the expansion of its facility.	Unknown

This information is not intended to constitute, and is not a substitute for, legal or other advice. Each circumstance should be considered and evaluated separately and in consultation with legal counsel.

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