

U.S. Gas Markets

Where is the gas and where is it going?

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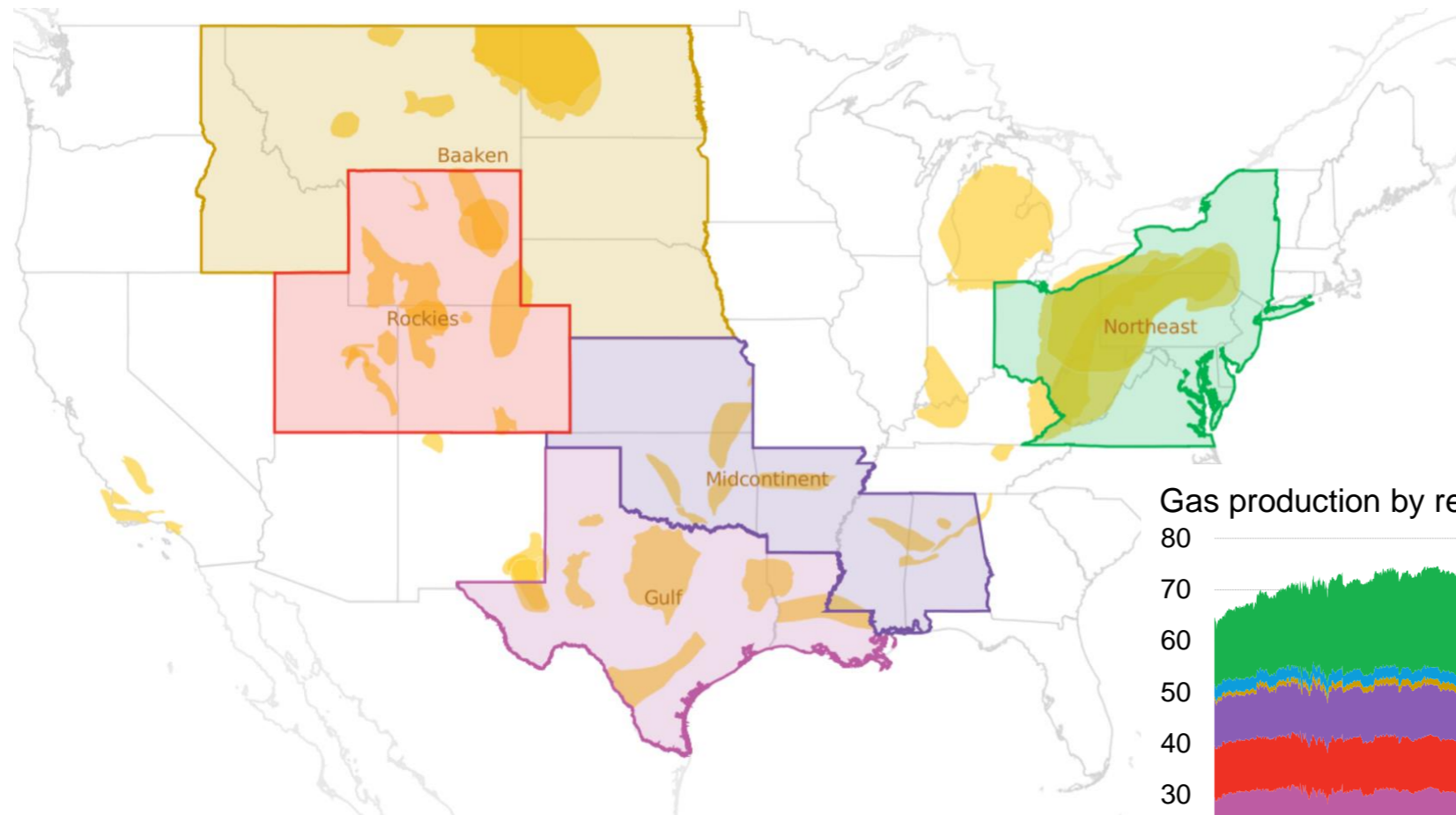
Bloomberg
New Energy Finance

Natural Gas Prices Down 76%

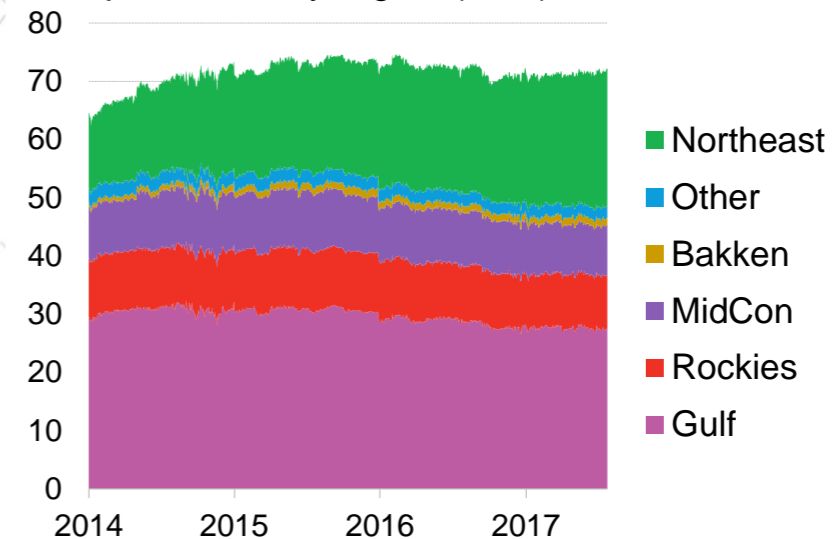


Source: Bloomberg; Henry Hub prompt month prices as of Jan 17, 2018

Appalachia Drives the Growth in Gas Production



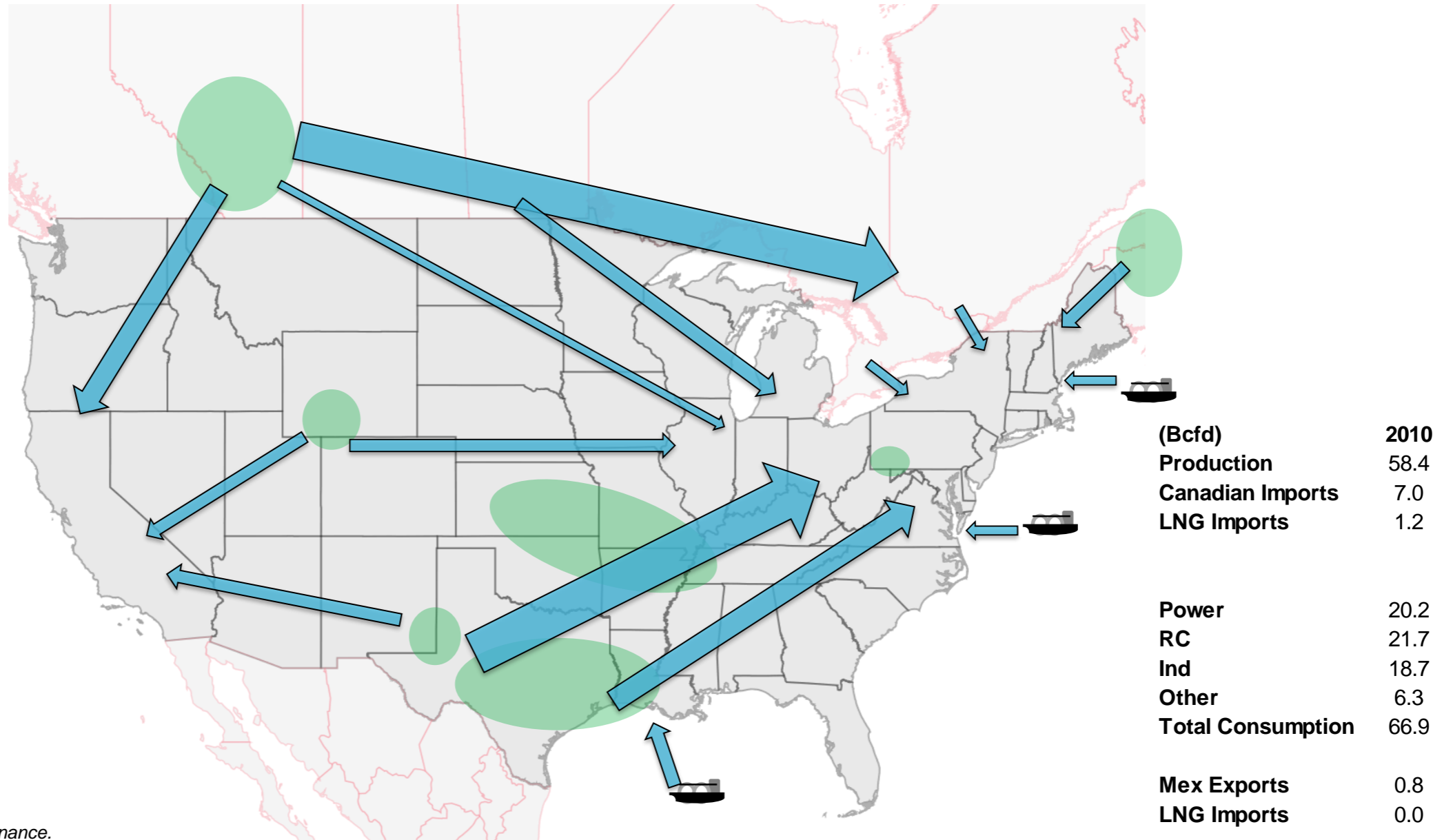
Gas production by region (Bcfd)



Source: Bloomberg New Energy Finance.

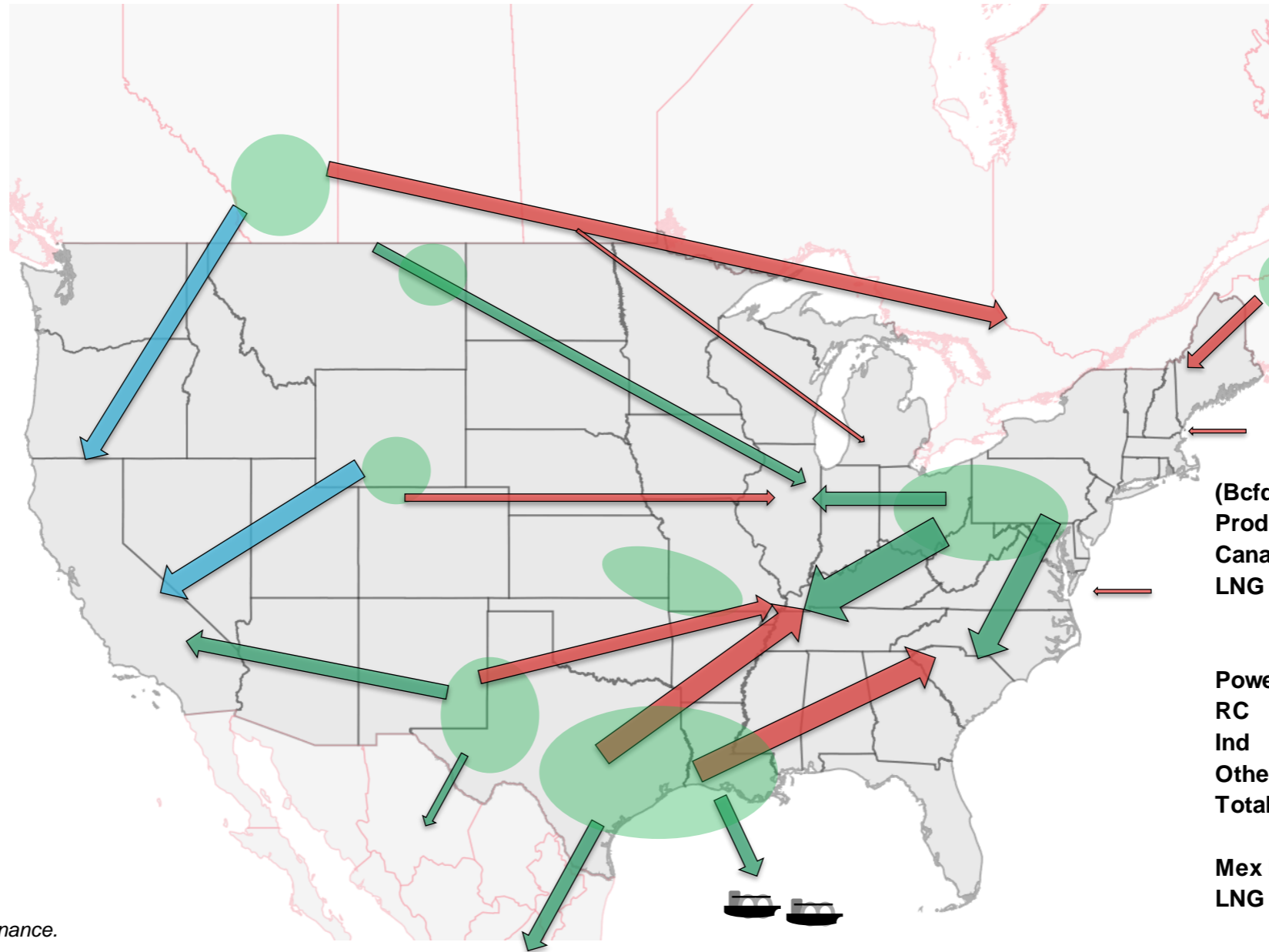
Source: Bloomberg New Energy Finance, ABB/Ventyx

2010 Natural Gas Markets



Source: Bloomberg New Energy Finance.

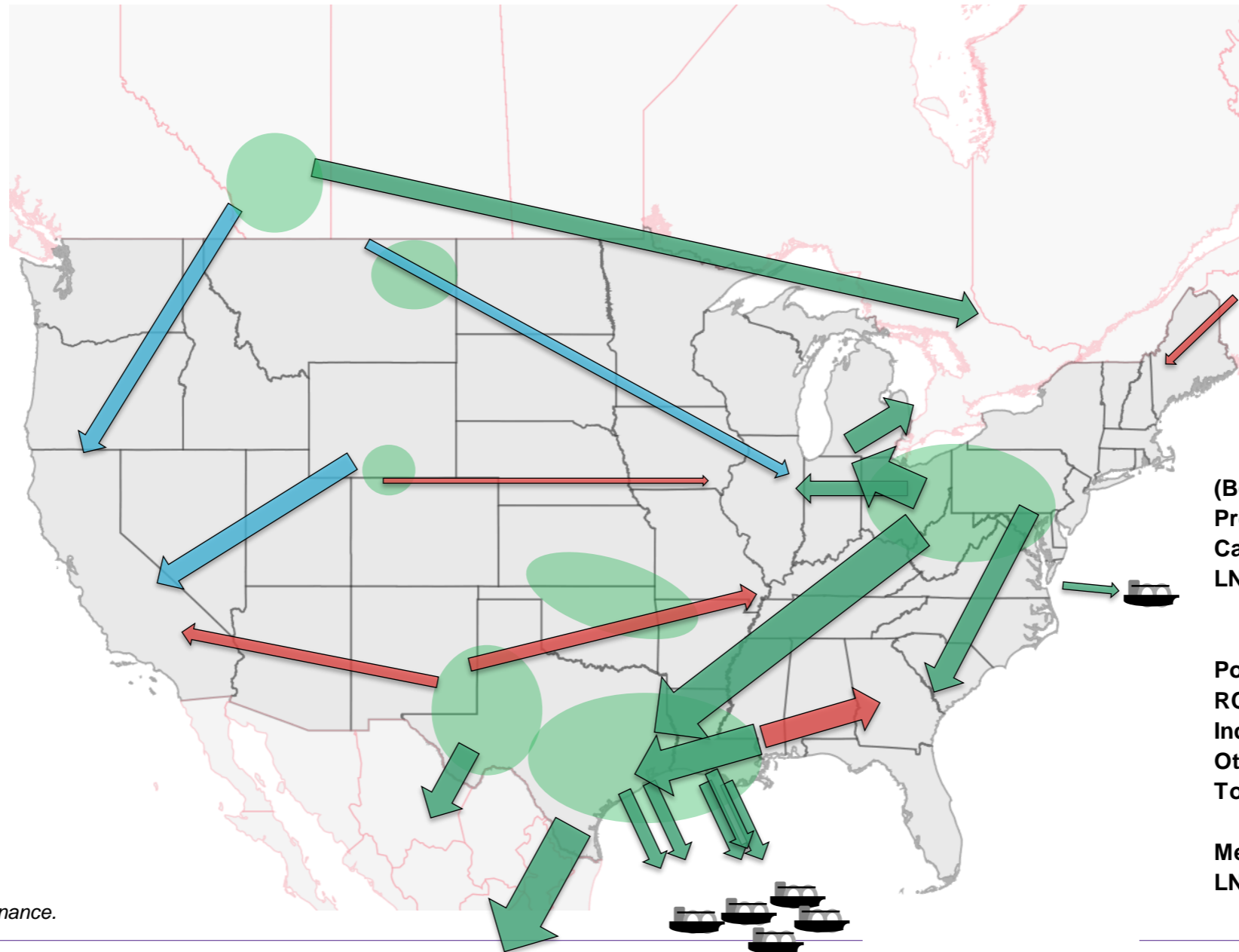
2016 Natural Gas Markets



	2016	vs. 2013
(Bcfd)		
Production	72.3	6.0
Canadian Imports	5.8	0.7
LNG Imports	0.2	0.0
Power	27.3	4.8
RC	20.6	-2.0
Ind	21.1	0.8
Other	6.6	-0.6
Total Consumption	75.5	3.0
Mex Exports	3.7	1.9
LNG Imports	0.5	0.5

Source: Bloomberg New Energy Finance.

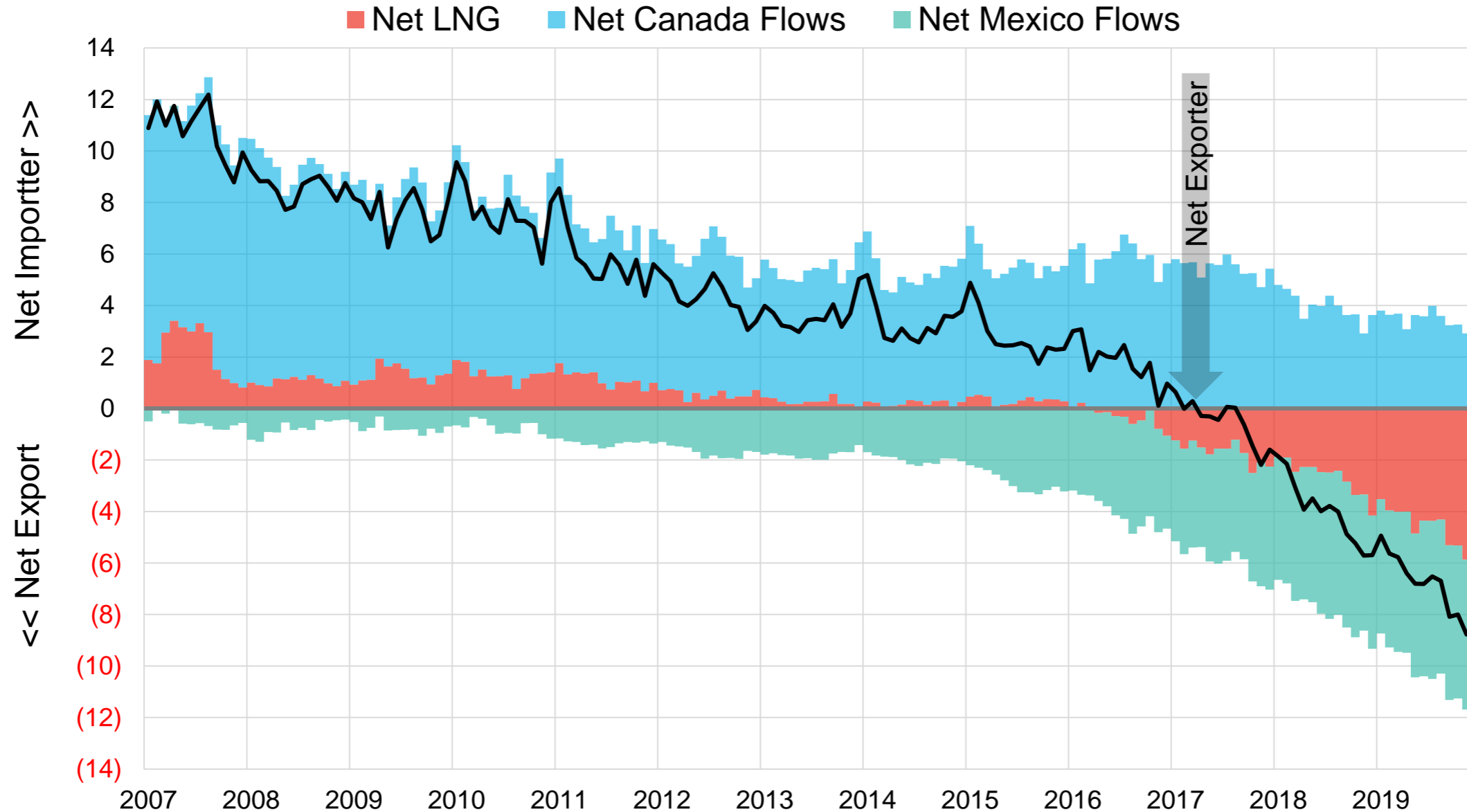
2019 Natural Gas Markets



	(Bcfd)	2019	vs. 2016
Production		81.0	8.7
Canadian Imports		6.5	0.7
LNG Imports		0.1	-0.1
Power		28.3	1.0
RC		20.1	-0.5
Ind		23.2	2.1
Other		6.5	-0.1
Total Consumption		78.1	2.6
Mex Exports		6.0	2.3
LNG Imports		5.5	5.0

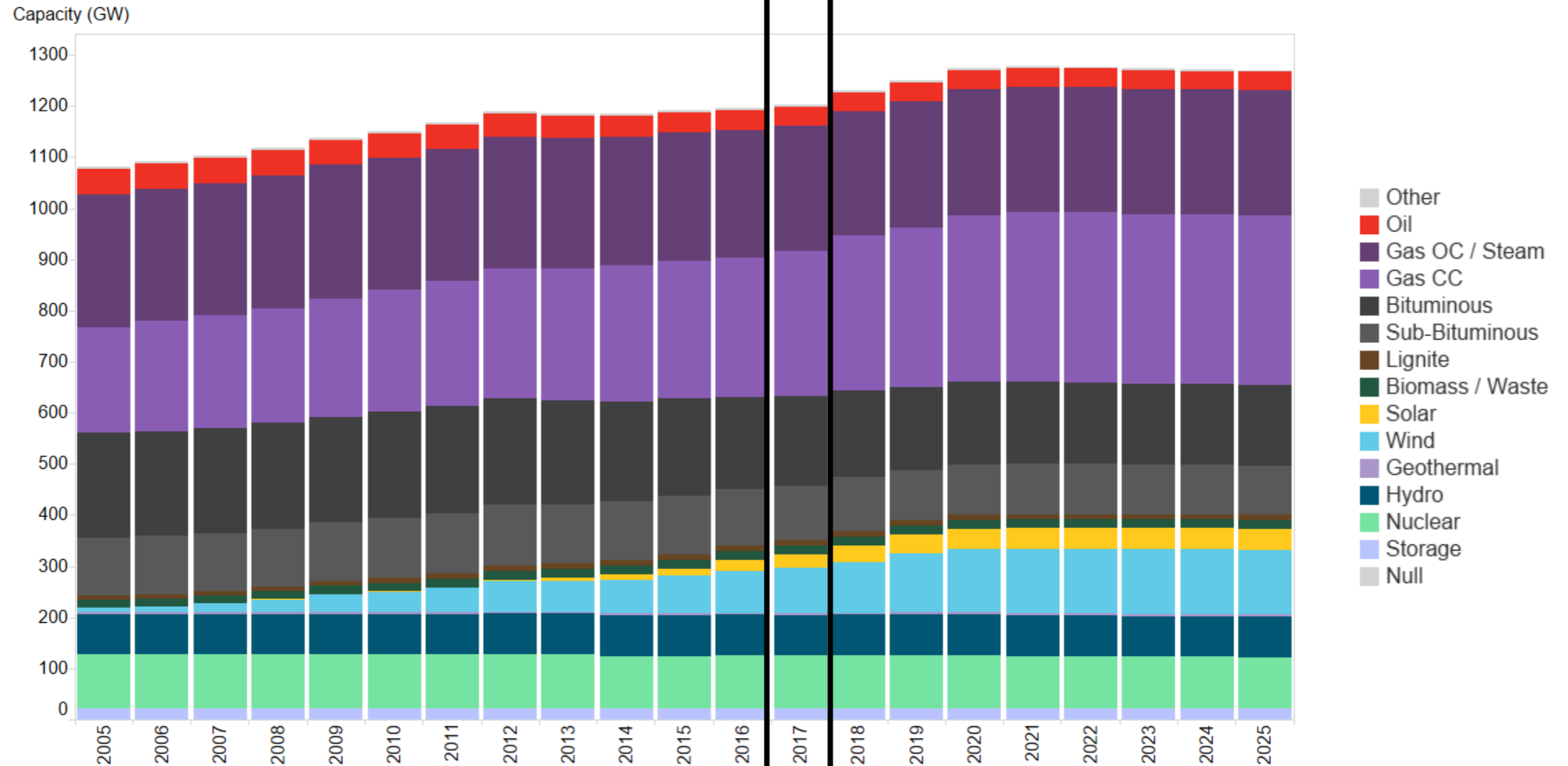
Source: Bloomberg New Energy Finance.

U.S. Natural Gas Trade Balance



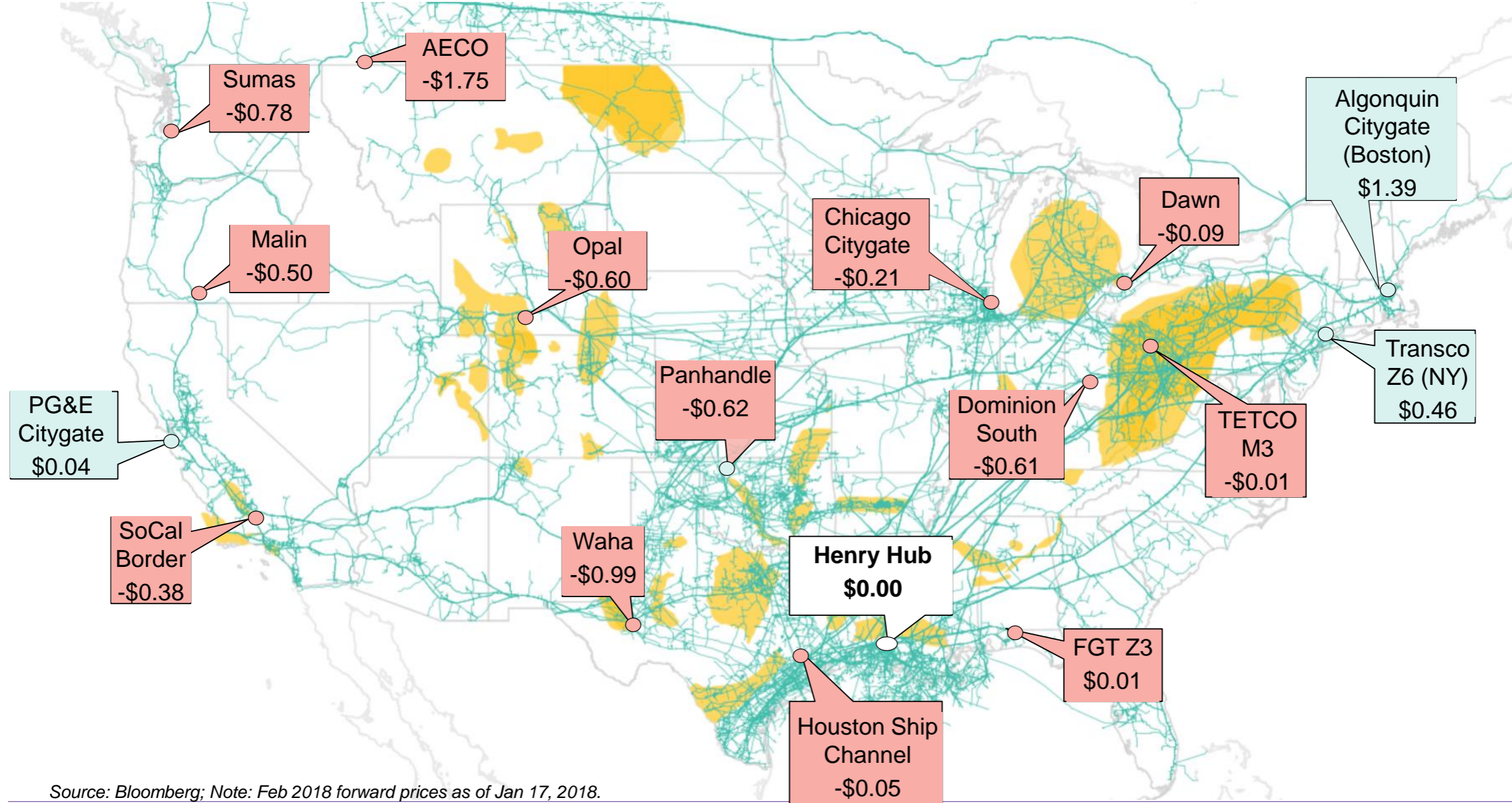
Source: Bloomberg New Energy Finance.

U.S Power Generation Capacity



Note: Future capacity includes plants under construction and in project development. It does not represent BNEF's new build forecast. Source: Bloomberg New Energy Finance.

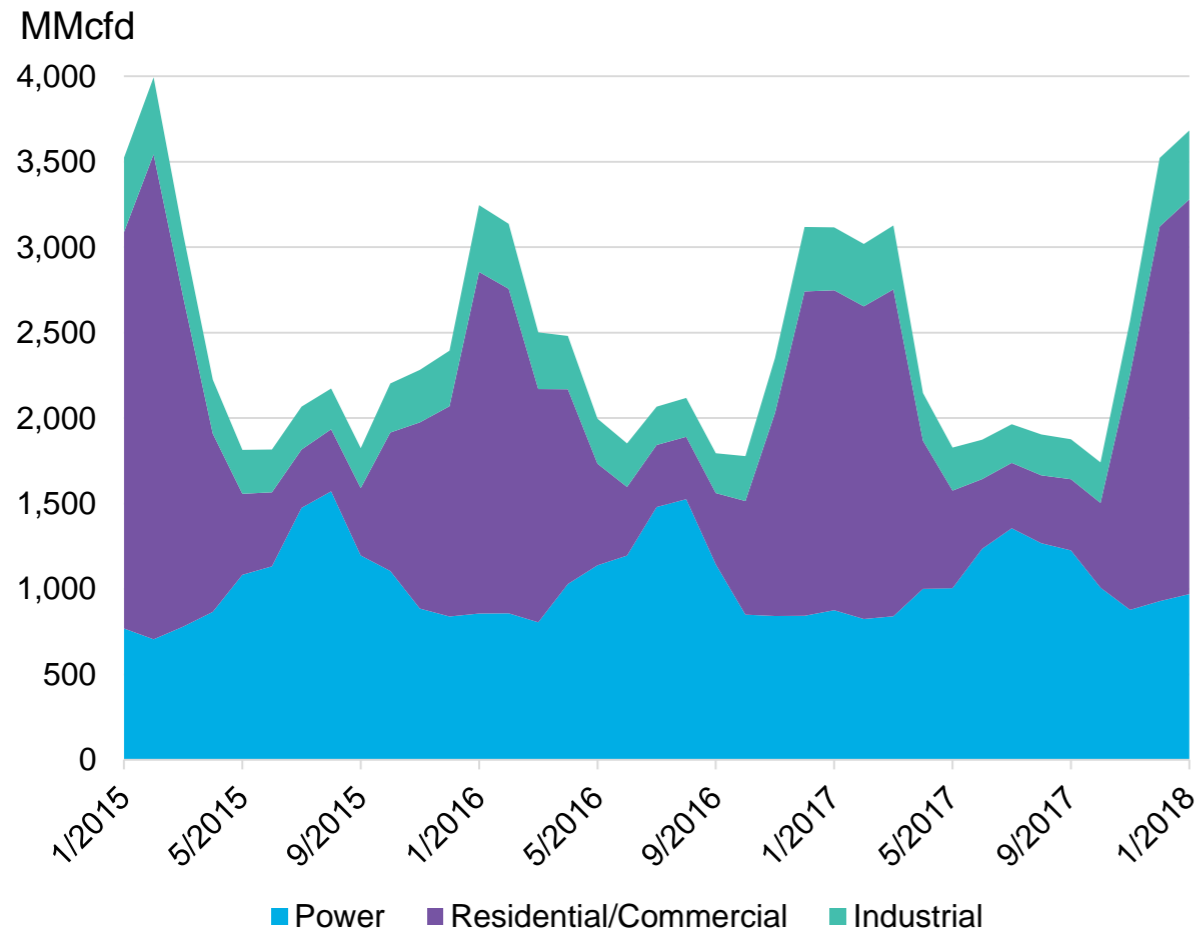
Regional Variations in Gas Prices



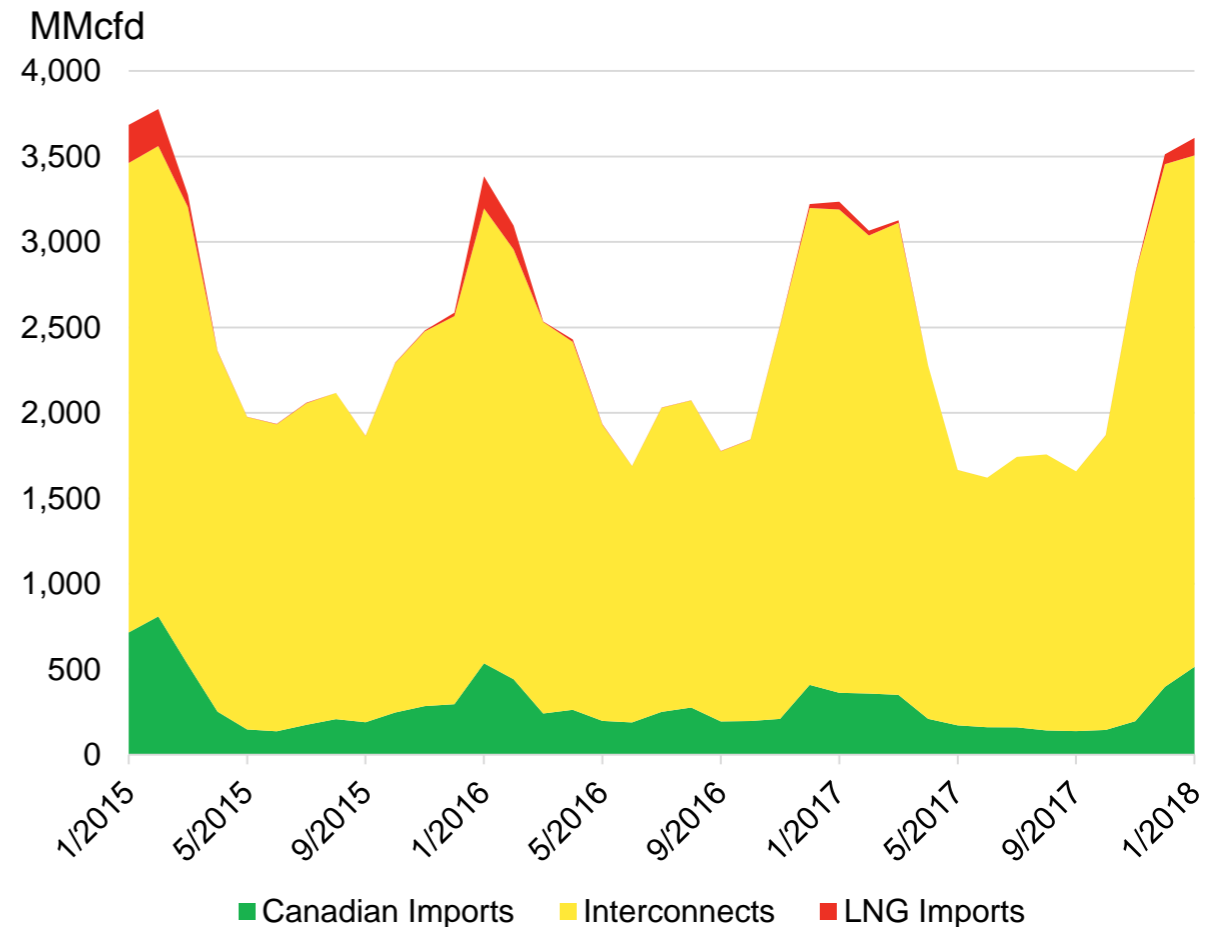
Source: Bloomberg; Note: Feb 2018 forward prices as of Jan 17, 2018.

New England's Gas Market

New England Gas Demand



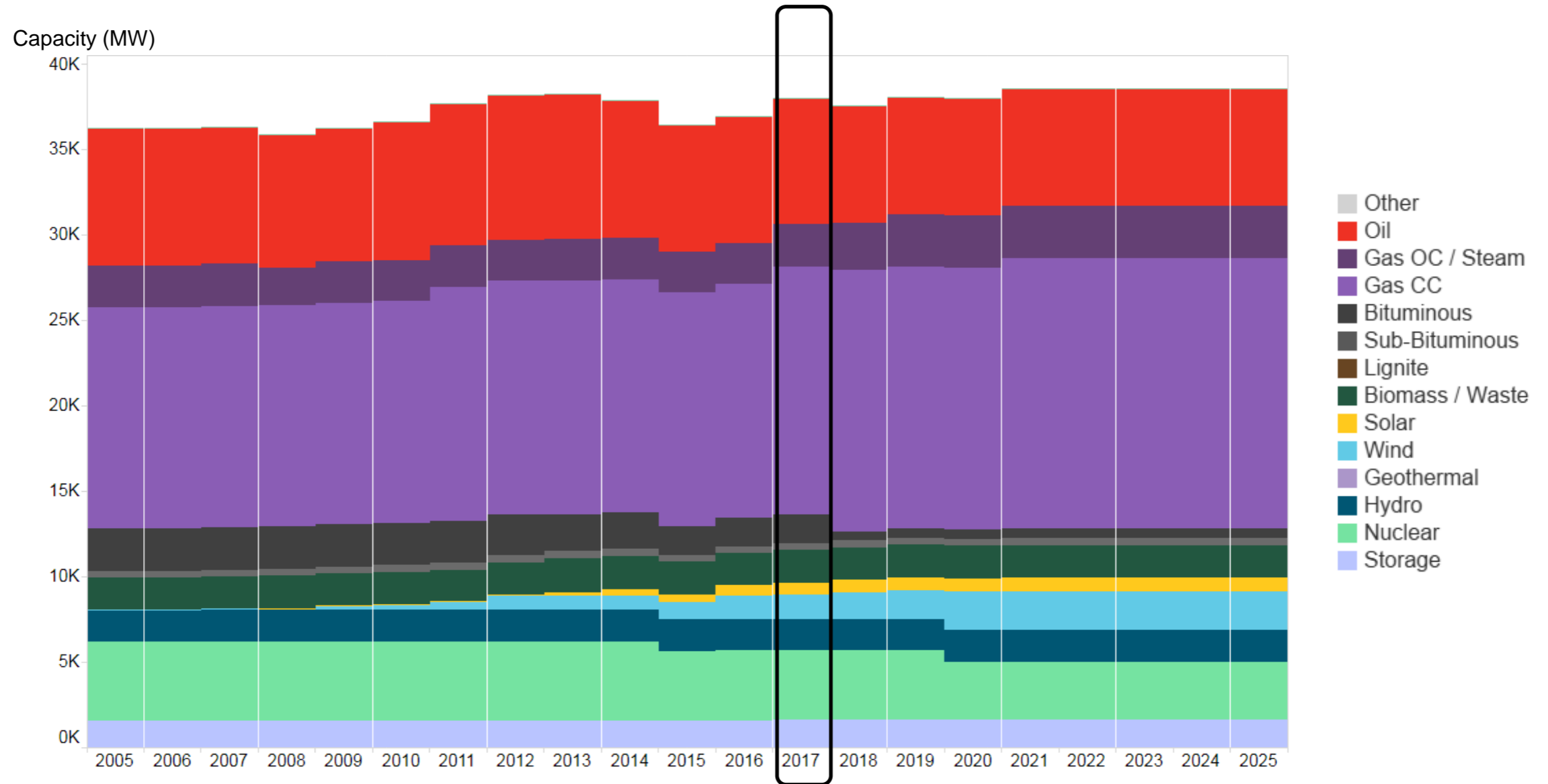
New England Gas Supply



Note: Supply and demand not exactly equal since some factors, such as pipeline distribution demand and LNG imports that do not feed into the pipeline system, are not included.

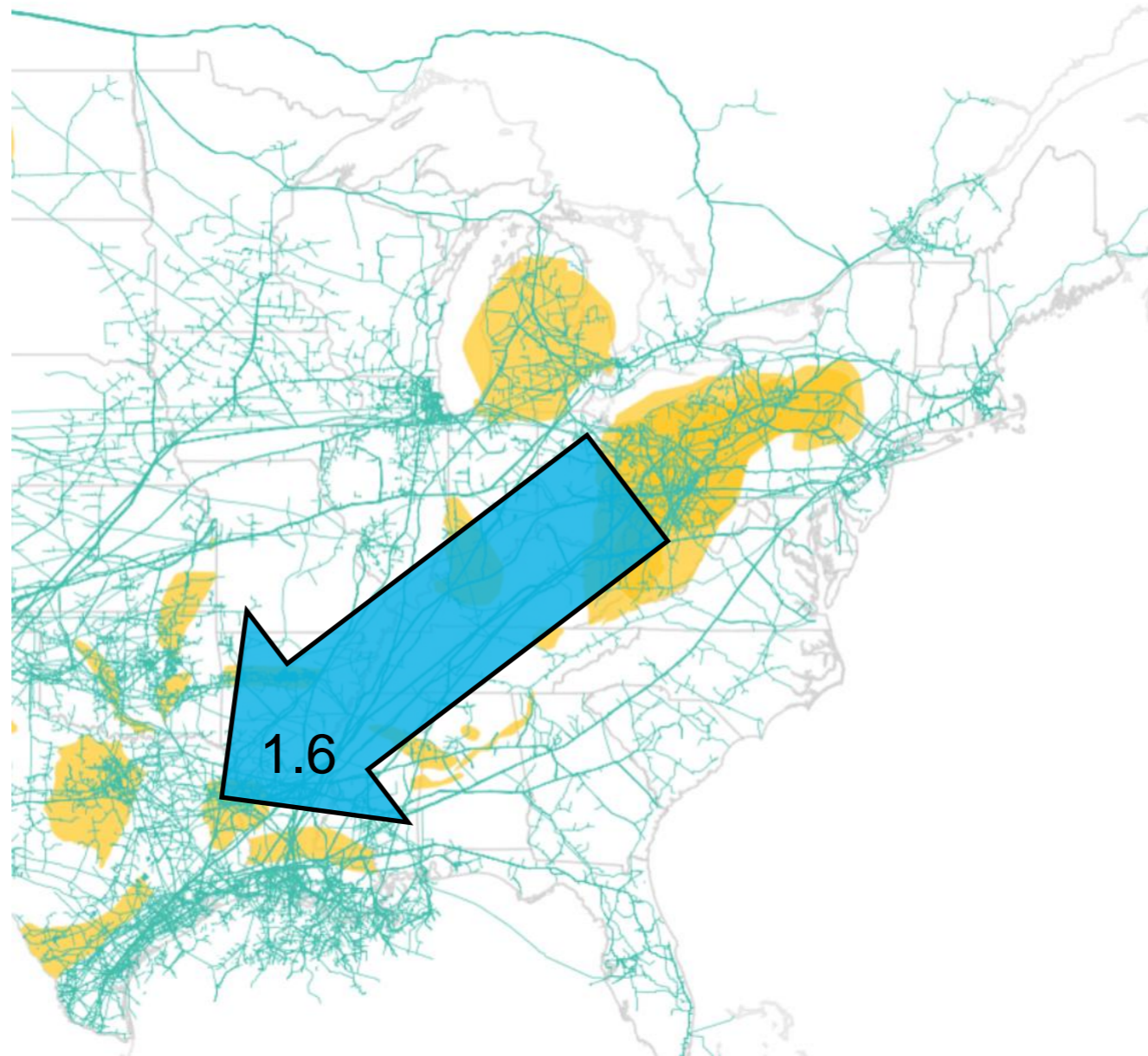
Source: Bloomberg New Energy Finance, ABB/Ventix

Power Generation Capacity - New England



Note: Future capacity includes plants under construction and in project development. It does not represent BNEF's new build forecast. Source: Bloomberg New Energy Finance.

Appalachian Basin Pipeline Buildout - 2017 (Bcfd)



Source: Bloomberg New Energy Finance

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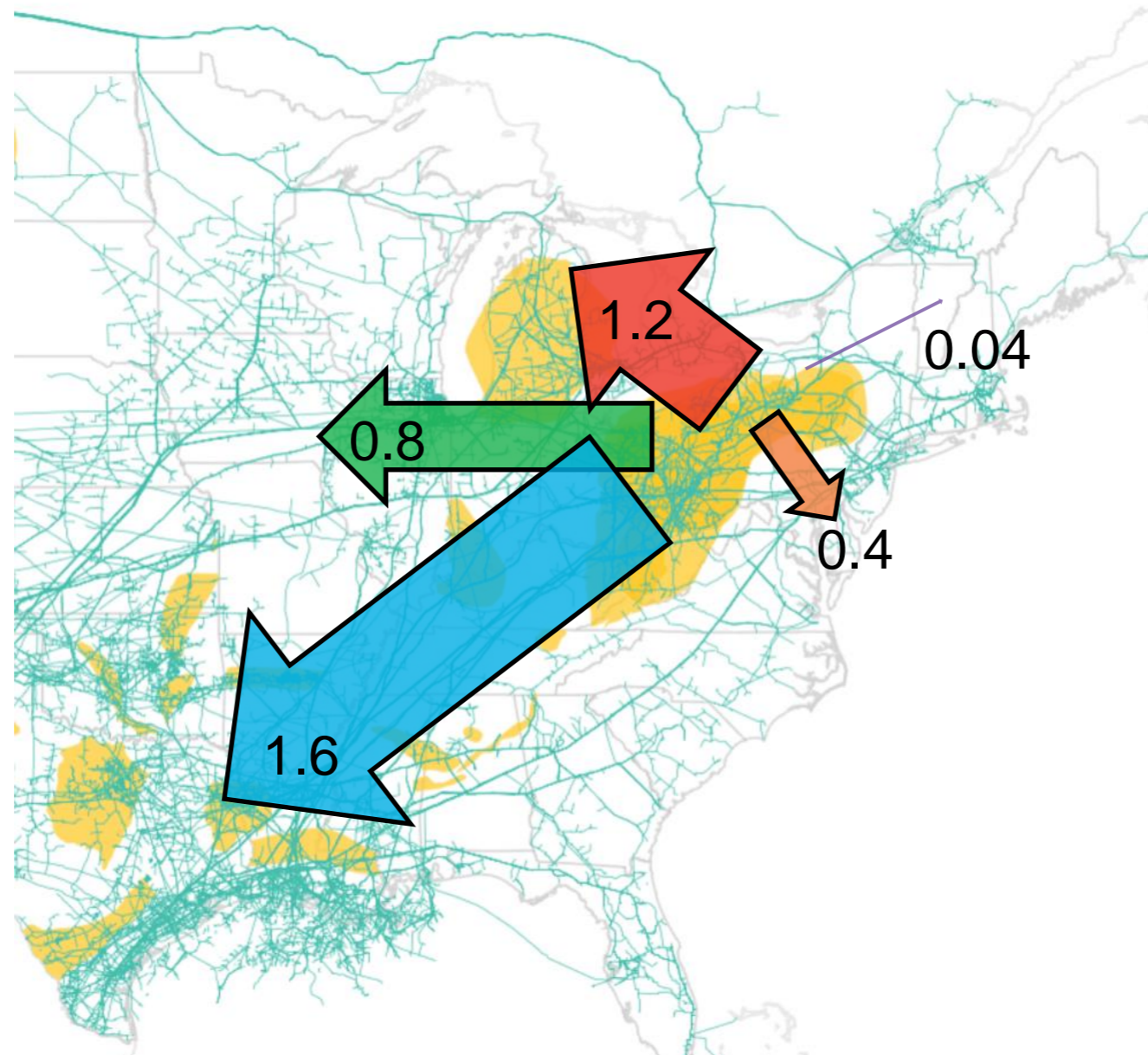
Source: Bloomberg New Energy Finance

Appalachian Basin Pipeline Buildout- 2017 (Bcfd)



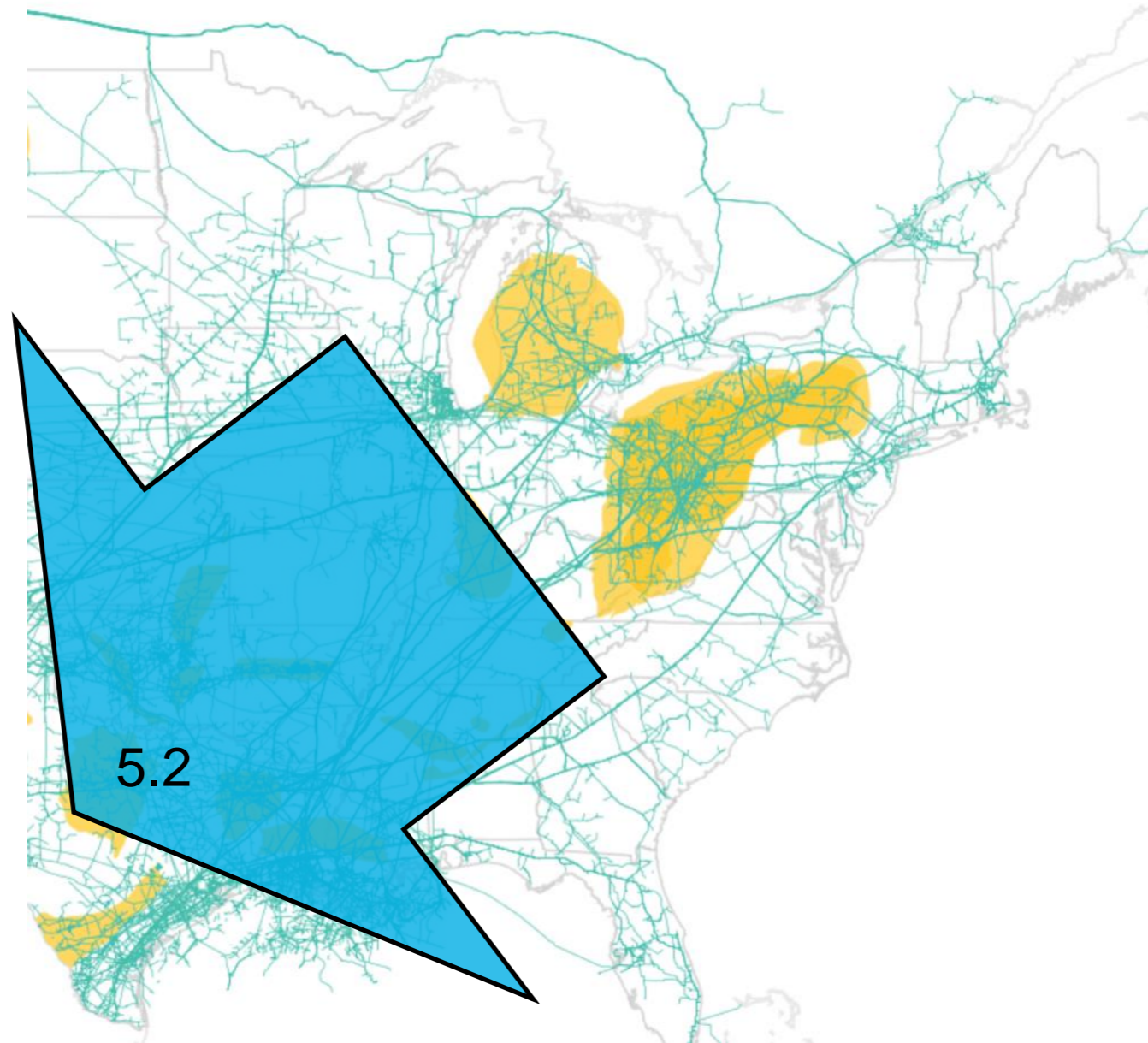
Source: Bloomberg New Energy Finance

Appalachian Basin Pipeline Buildout - 2017 (Bcfd)



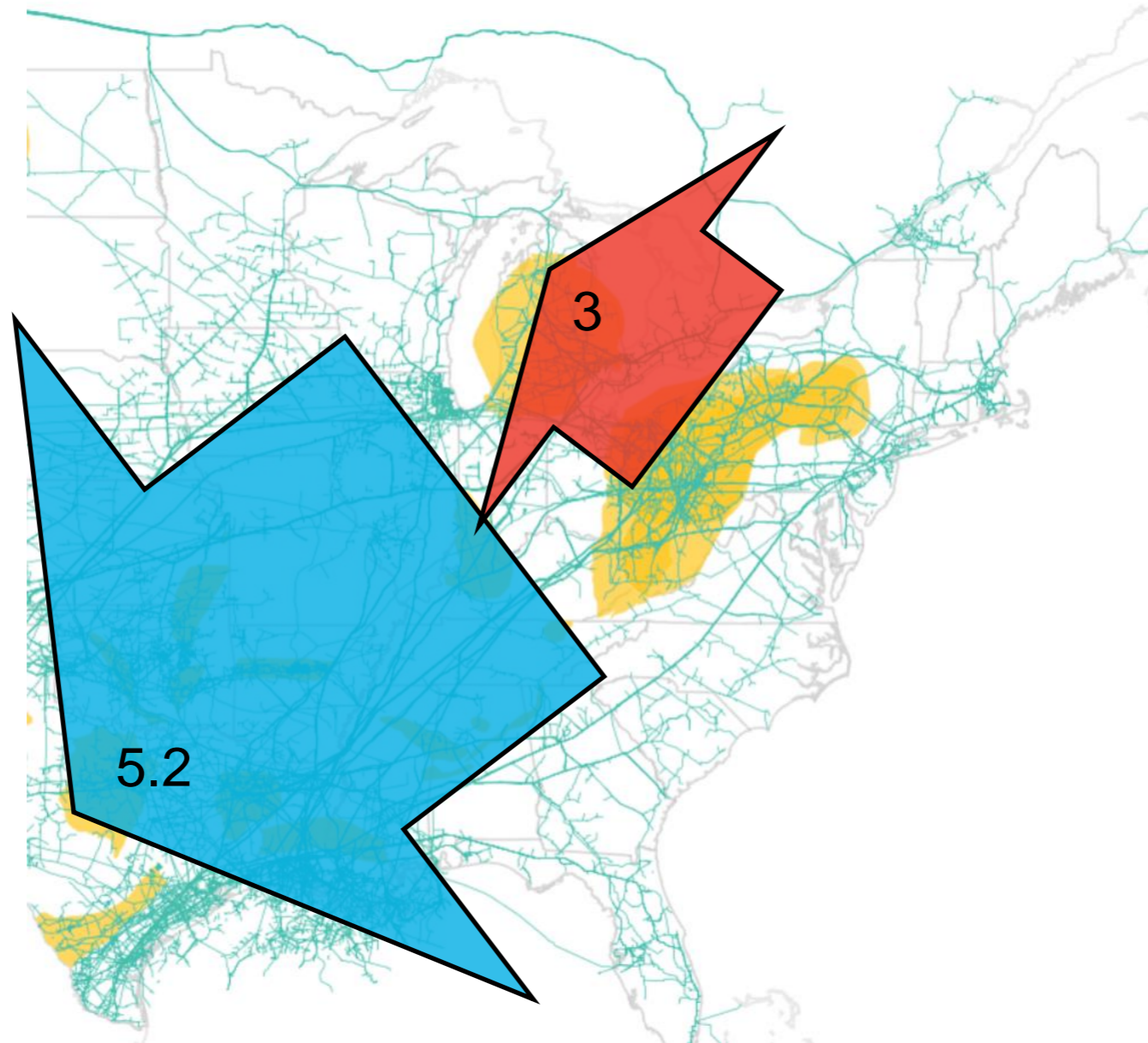
Source: Bloomberg New Energy Finance

Appalachian Basin Pipeline Buildout - 2018 (Bcfd)



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Appalachian Basin Pipeline Buildout - 2018 (Bcfd)



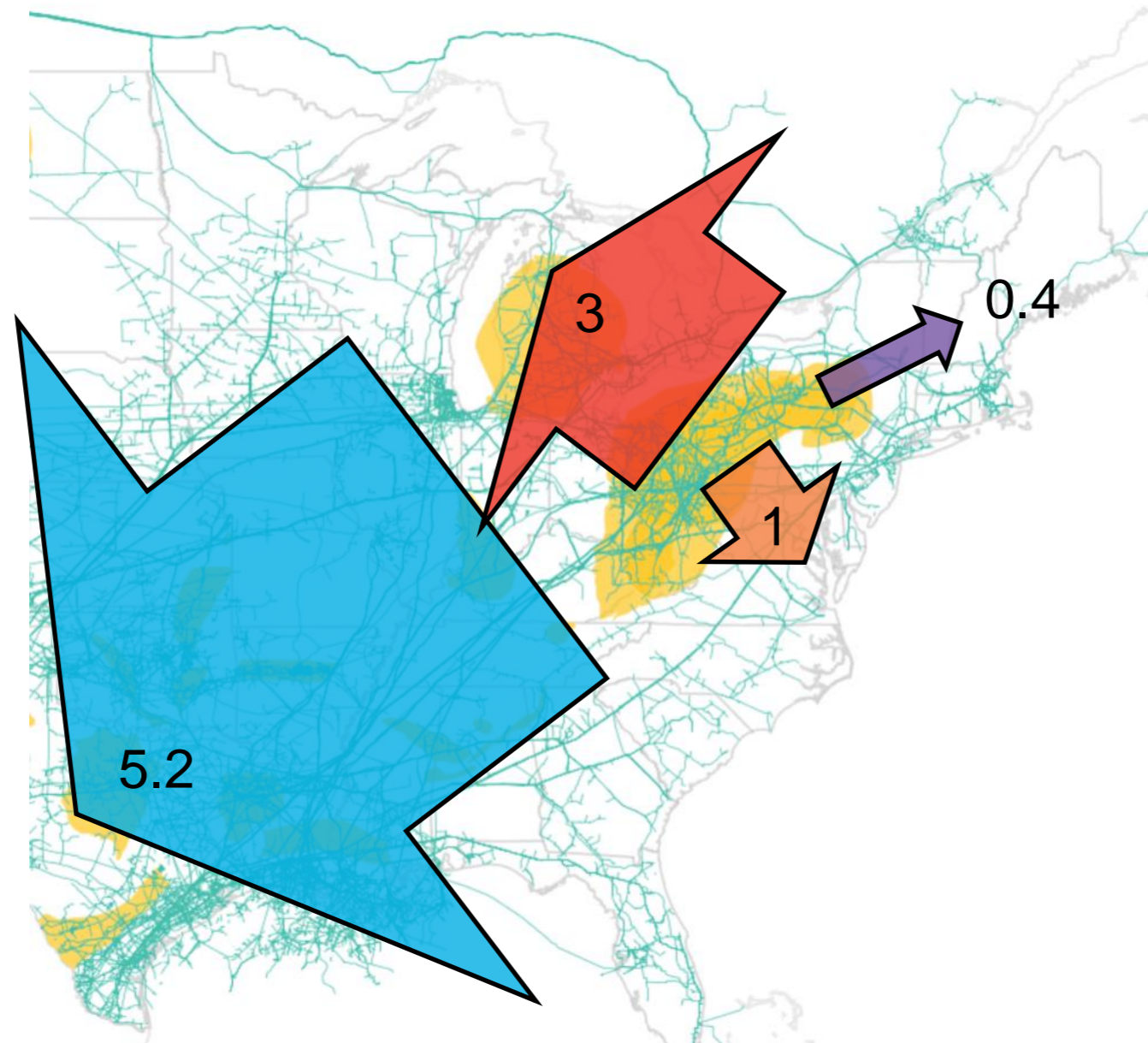
Source: Bloomberg New Energy Finance

Appalachian Basin Pipeline Buildout - 2018 (Bcfd)



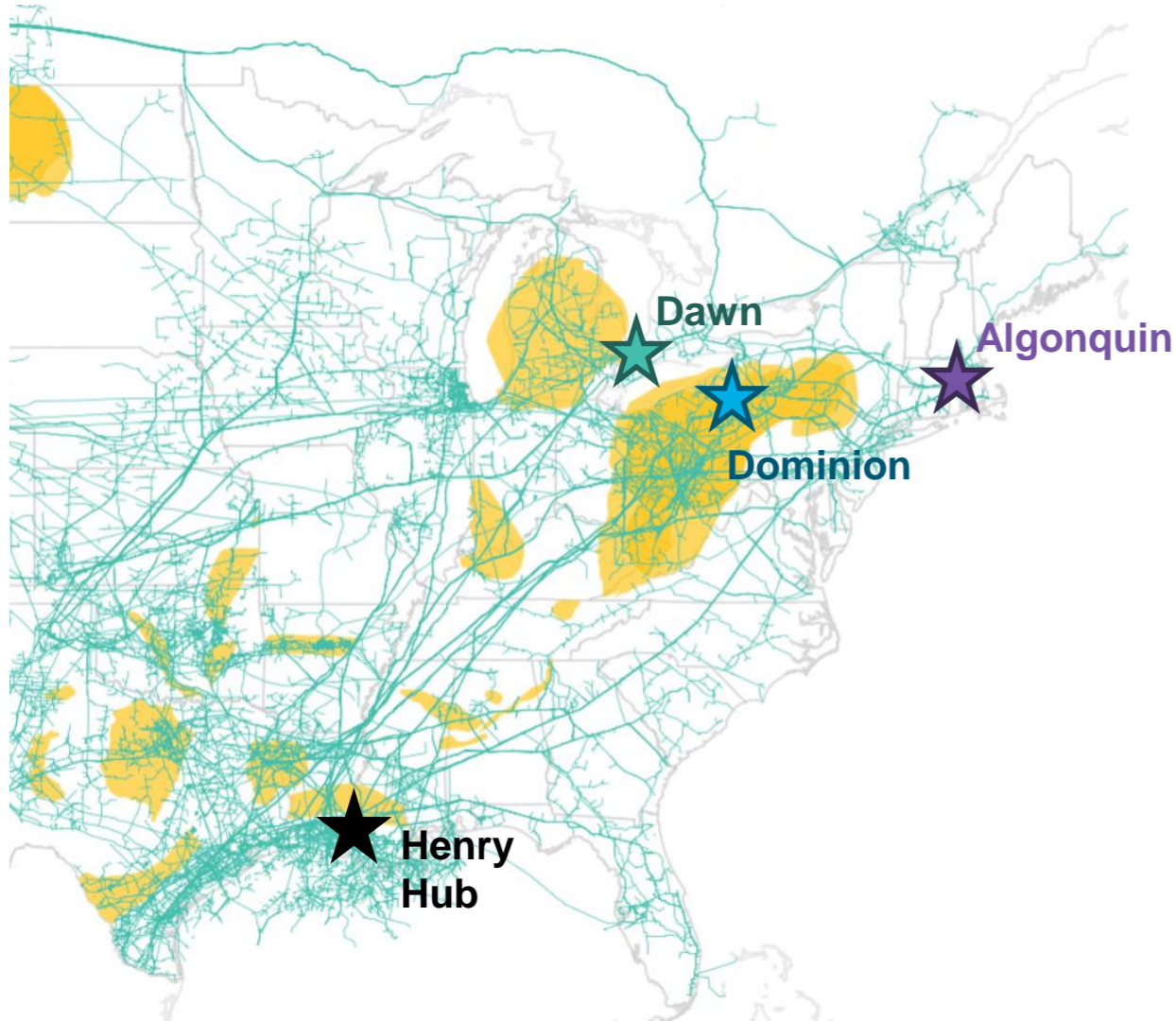
Source: Bloomberg New Energy Finance

Appalachian Basin Pipeline Buildout - 2018 (Bcfd)

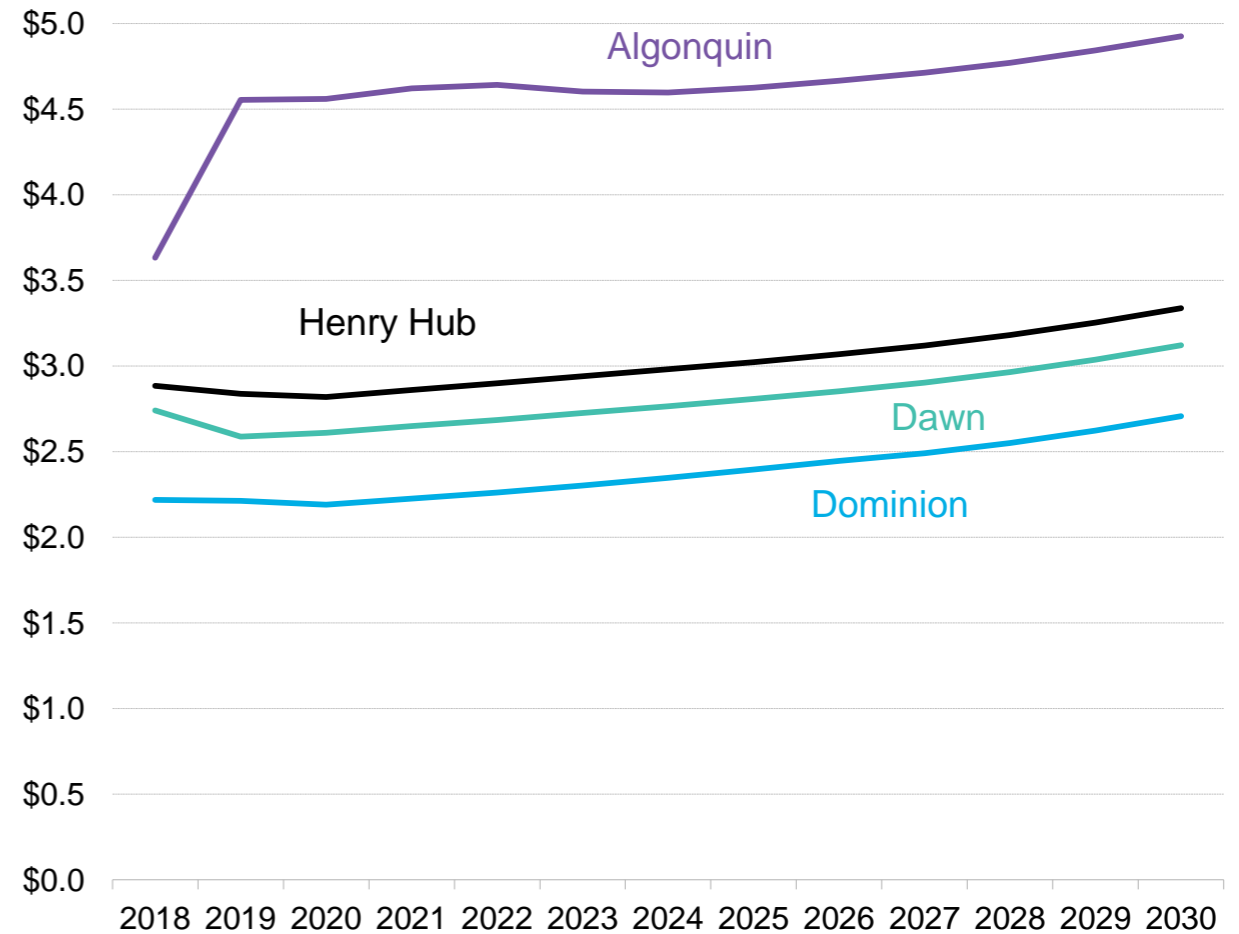


Source: Bloomberg New Energy Finance

New England Gas Market Remains Tight...



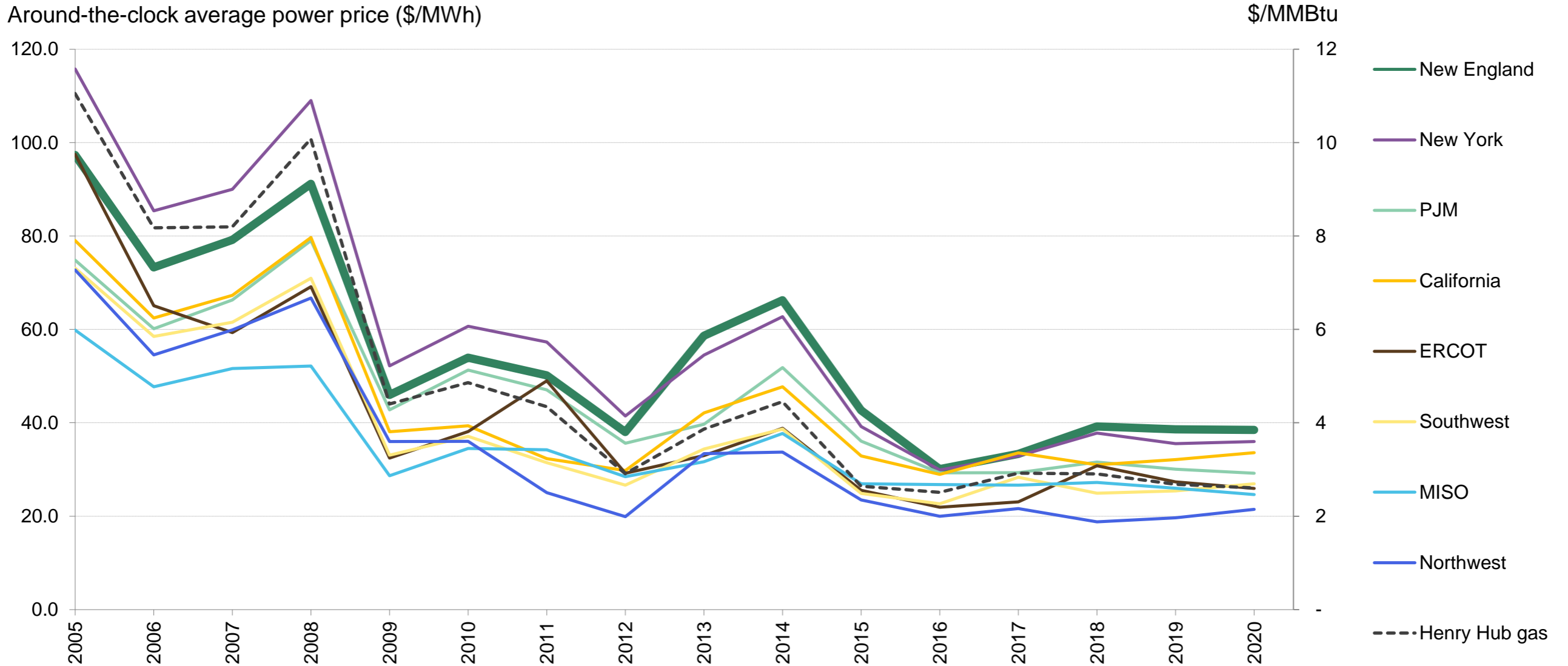
Gas Forward Curves (US\$/MMBtu)



Source: Bloomberg New Energy Finance

Source: Bloomberg Commodity Fair Value Curves; Note: Forward curves as of January 29, 2018.

...So Power Prices Highest in U.S.



Source: Bloomberg New Energy Finance; Note: Prices as of February 5, 2018.

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