

QUESTAR

IRP Update Meeting

December 17, 2015

Dominion Energy Utah
Docket No. 17-057-09
DEU Exhibit 1.1R
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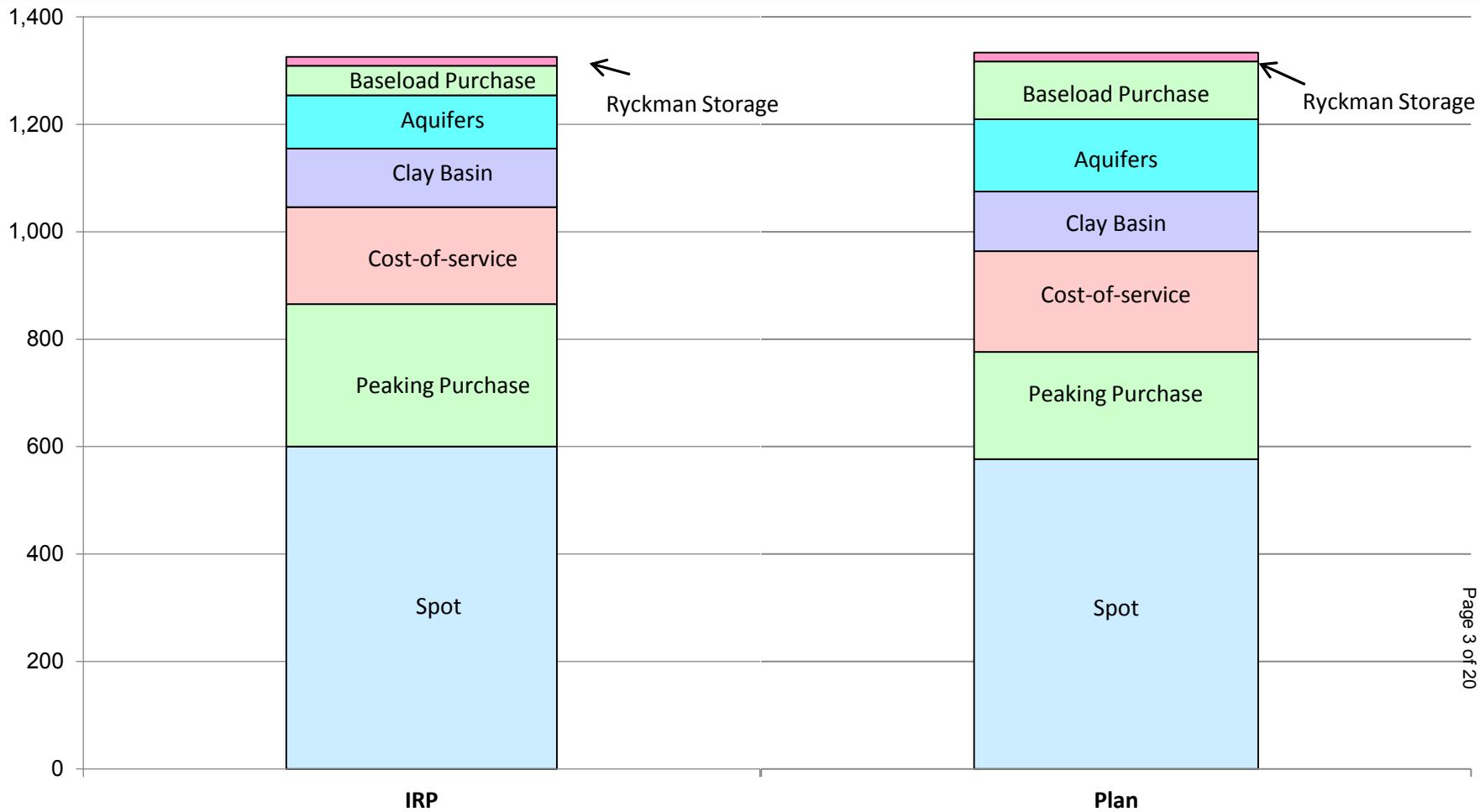
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Peak Day

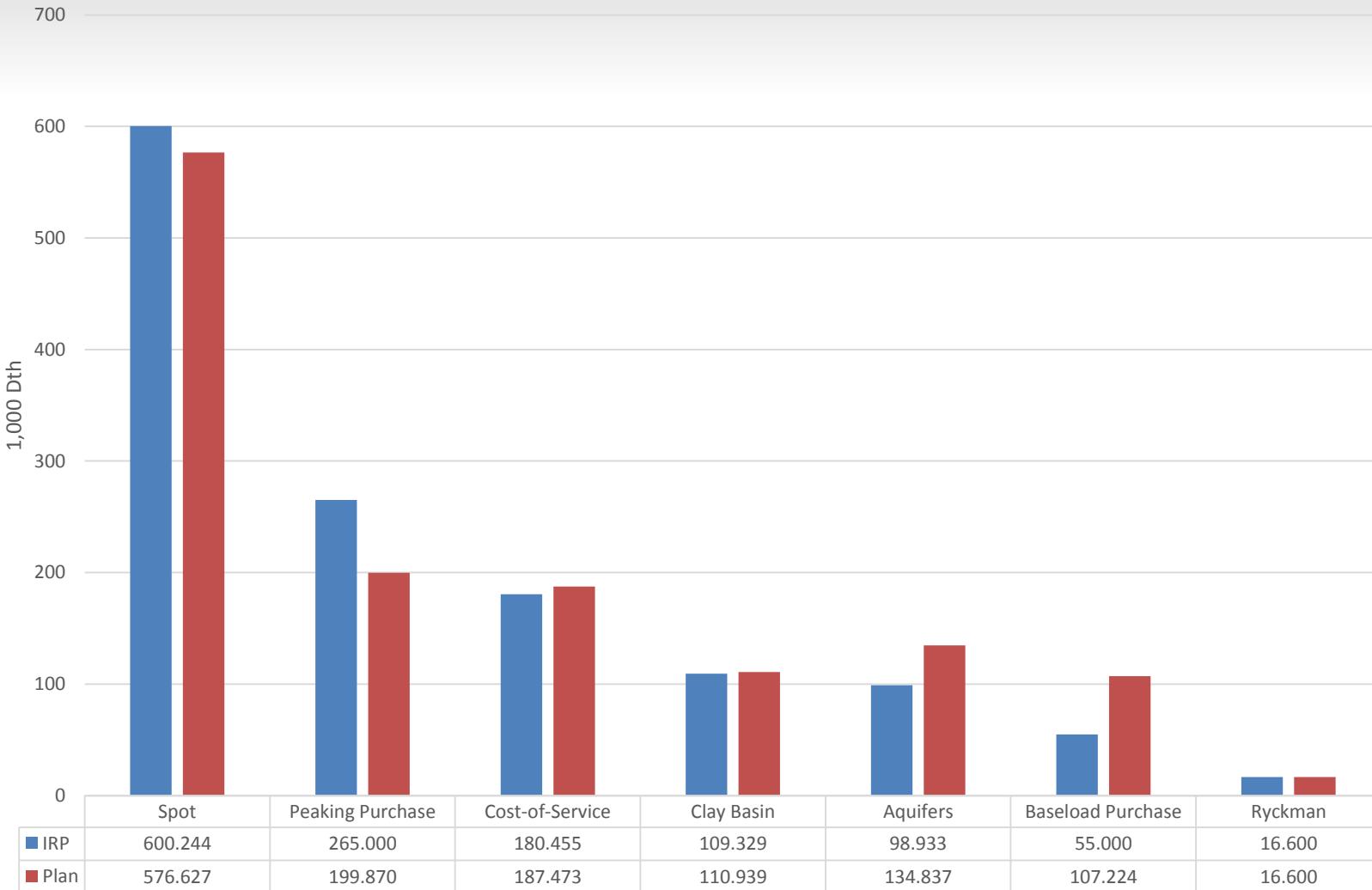
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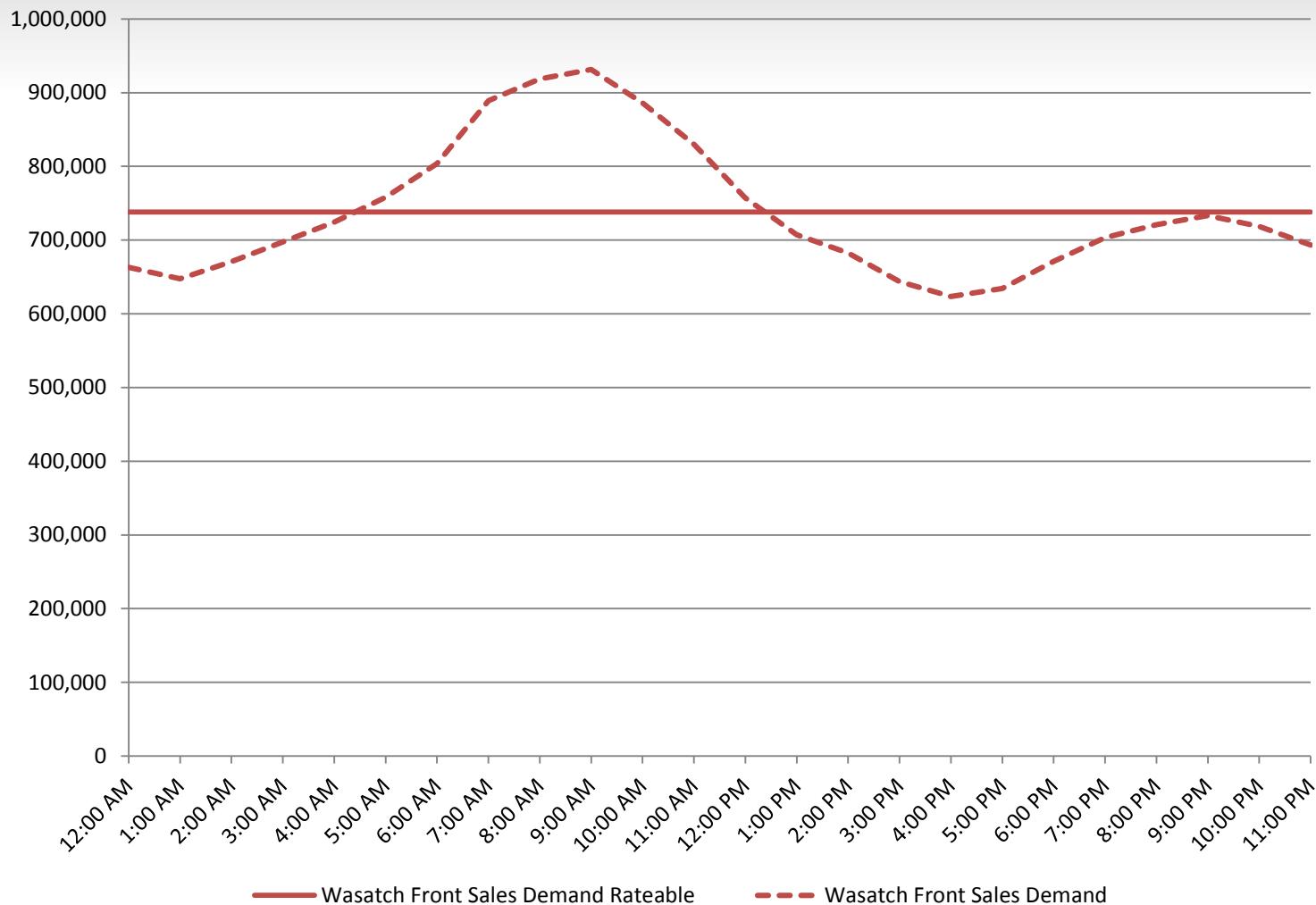
2015 - 2016 Sources for Peak Day Supply



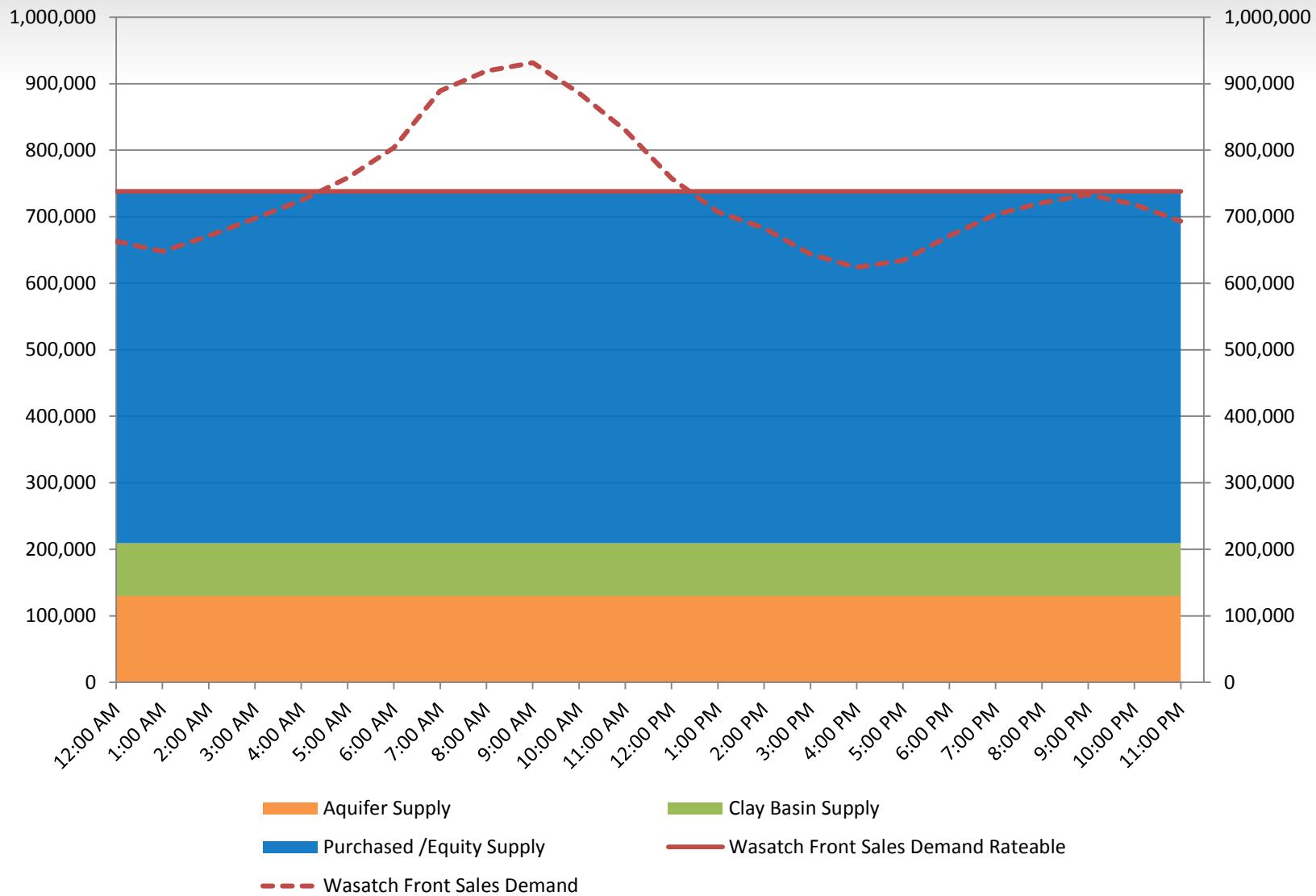
Supply Source Comparison (IRP vs. Plan)



Peak Hour - Wasatch Front Demand



Wasatch Front Supply = Demand



Options for Resolving the Peak-Hour Issue

- Change the way the Aquifers are used
 - Aquifers can provide non-ratable supply
- Utilize withdrawals from Ryckman Creek storage
 - When the facility is in service
 - Utilize Cycles for changing nominations
- On-system storage
 - Questar Gas system storage would reduce the demand swings on the upstream pipelines
- Services provided by upstream pipelines
 - May require additional capacity

System Capacity

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Changes to System Capacity

- 2015 -2016 IRP
 - Multiple gate stations serving the Wasatch Front are near 100% capacity
 - Hunter Park Gate Station - Kern River Facilities
 - Work will take a longer lead time for completion prior to the 2016/2017 heating season
 - Requested bids for upgrades to the station
 - Upgrade to 300,000 Mcf/day = \$4,120,000 plus taxes
 - Future upgrade to 400,000 Mcf/day = \$200,000
 - Upgrade to 400,000 Mcf/day = \$4,150,000 plus taxes

Infrastructure Replacement

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Aliso Storage Update



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Reauthorization of Pipeline Safety Act

- Storage



Aliso Storage

Safety of Gas Transmission & Gathering Lines Rule

- Expansion of Integrity Management beyond HCAs
- Pressure Testing



Rupture Detection and Valves Rule

- Rupture detection and response time metrics, including:
 - Integration of Automatic shut-off valves (ASVs)
 - Remote Control Valves (RCVs)



Risk

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Scheduling Infrastructure Replacements



Scheduling per Section III of the Settlement Stipulation, Docket 13-057-05, Exhibits 4 and 5

Questar 2015 Risk Implementation

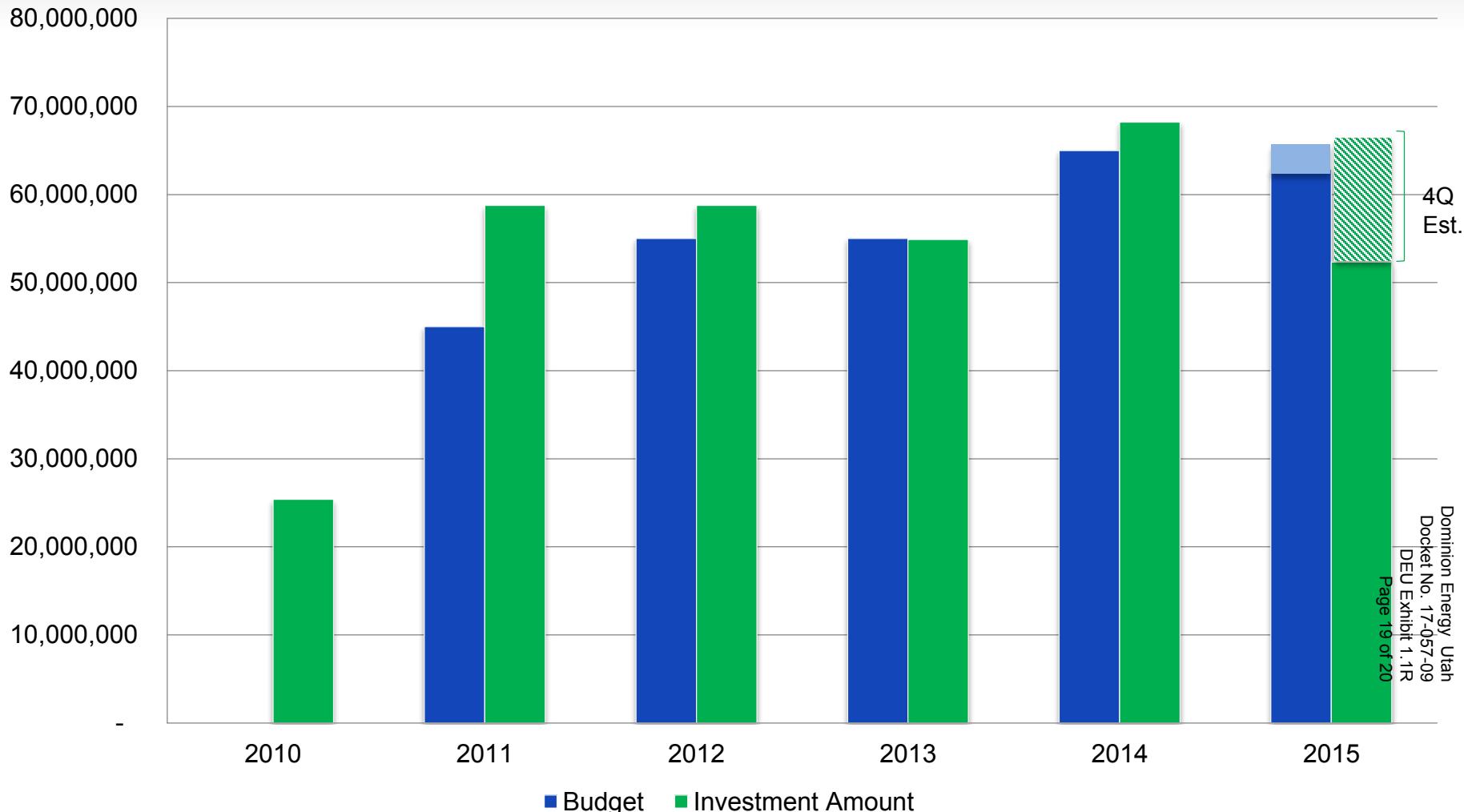
- Creation of a new state of the art algorithm by Dynamic Risk
- Dynamic Risk is the industry leader in pipeline risk evaluation and the development of new algorithm methods.
- The algorithm was implemented in New Century's Spatial Risk Analyst (SRA), which takes full advantage of PODS and the ability to pull from other databases.

Other Benefits

- SRA allows for the creation of customized analysis tools.
- Questar now has geo-spatial viewing capabilities with these new tools.

Annual Investment in Tracker Projects

Infrastructure Replacement Investment



Thank You

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