

# **IRP Update Meeting**

**December 17, 2015**

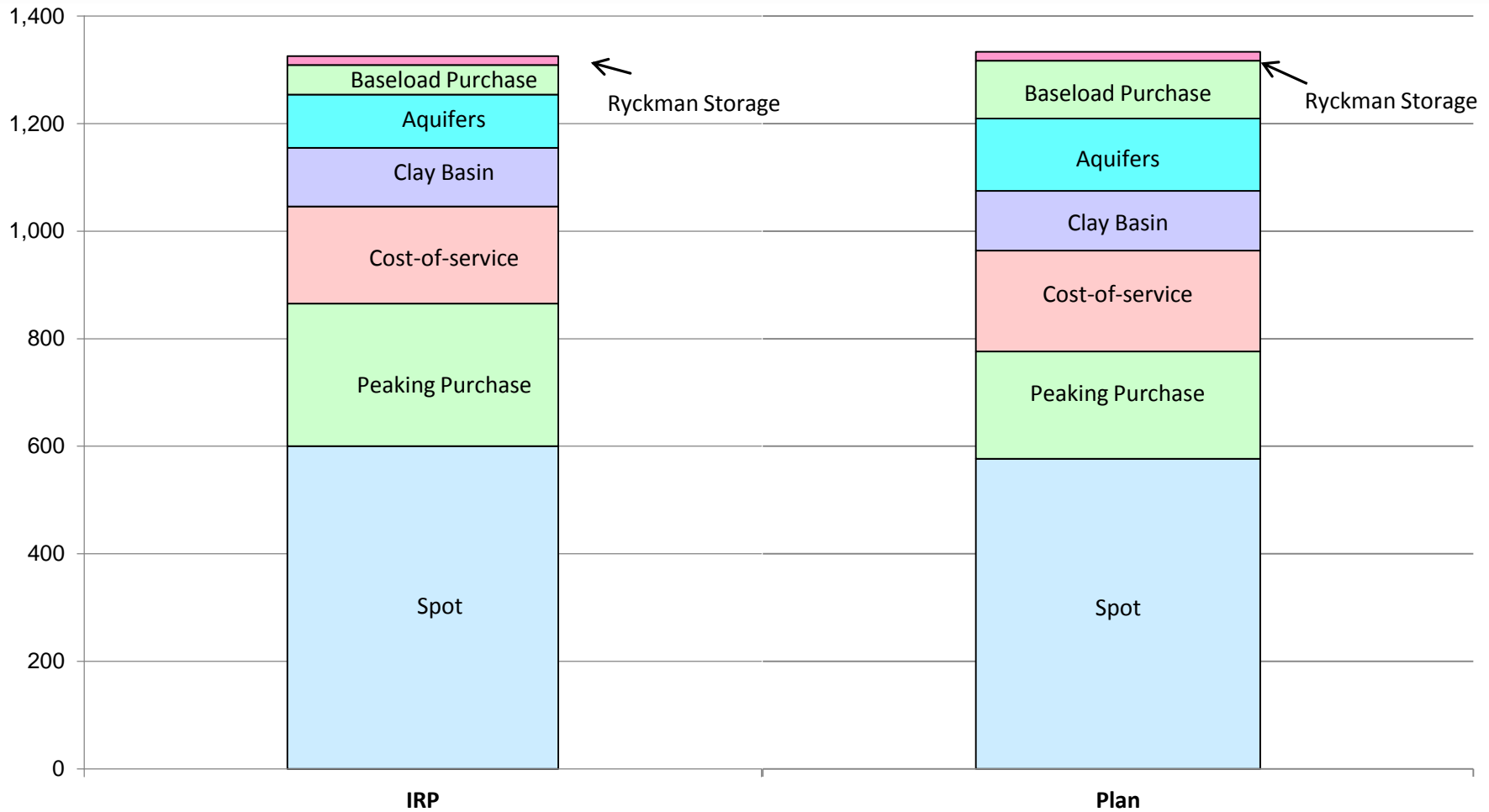


**QUESTAR**

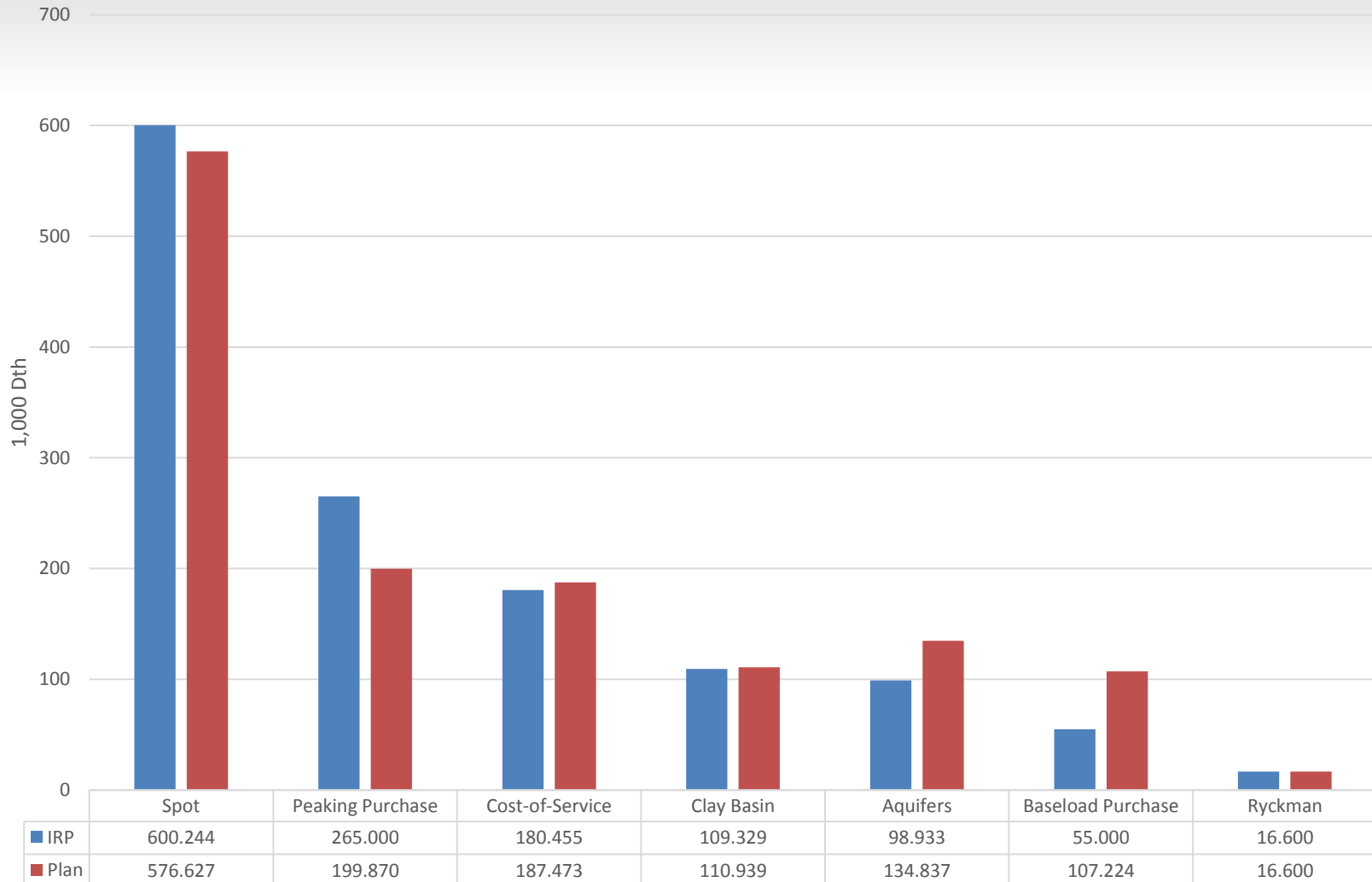
**Peak Day**

**QUESTAR<sup>®</sup>**  
**Gas**

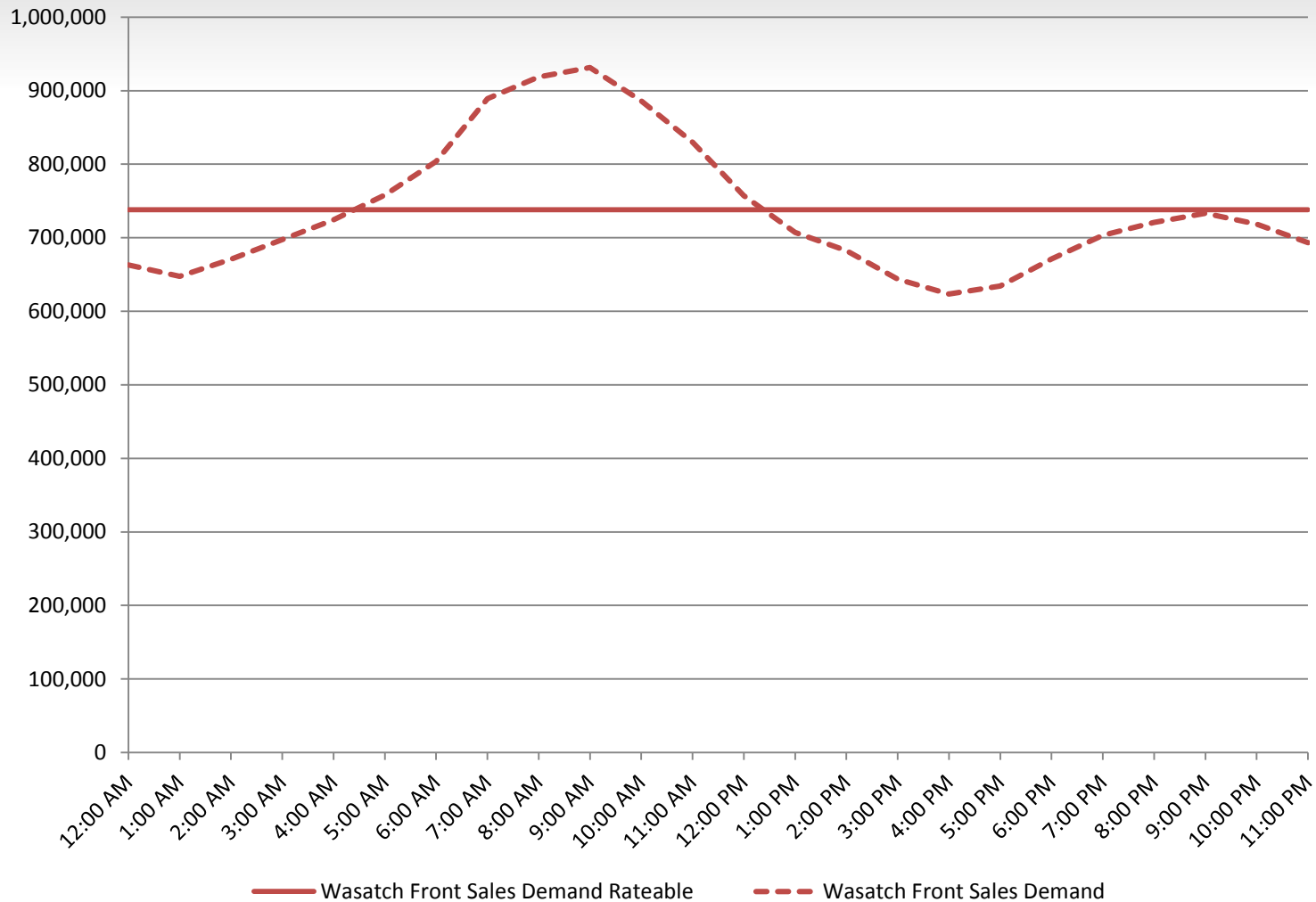
# 2015 - 2016 Sources for Peak Day Supply



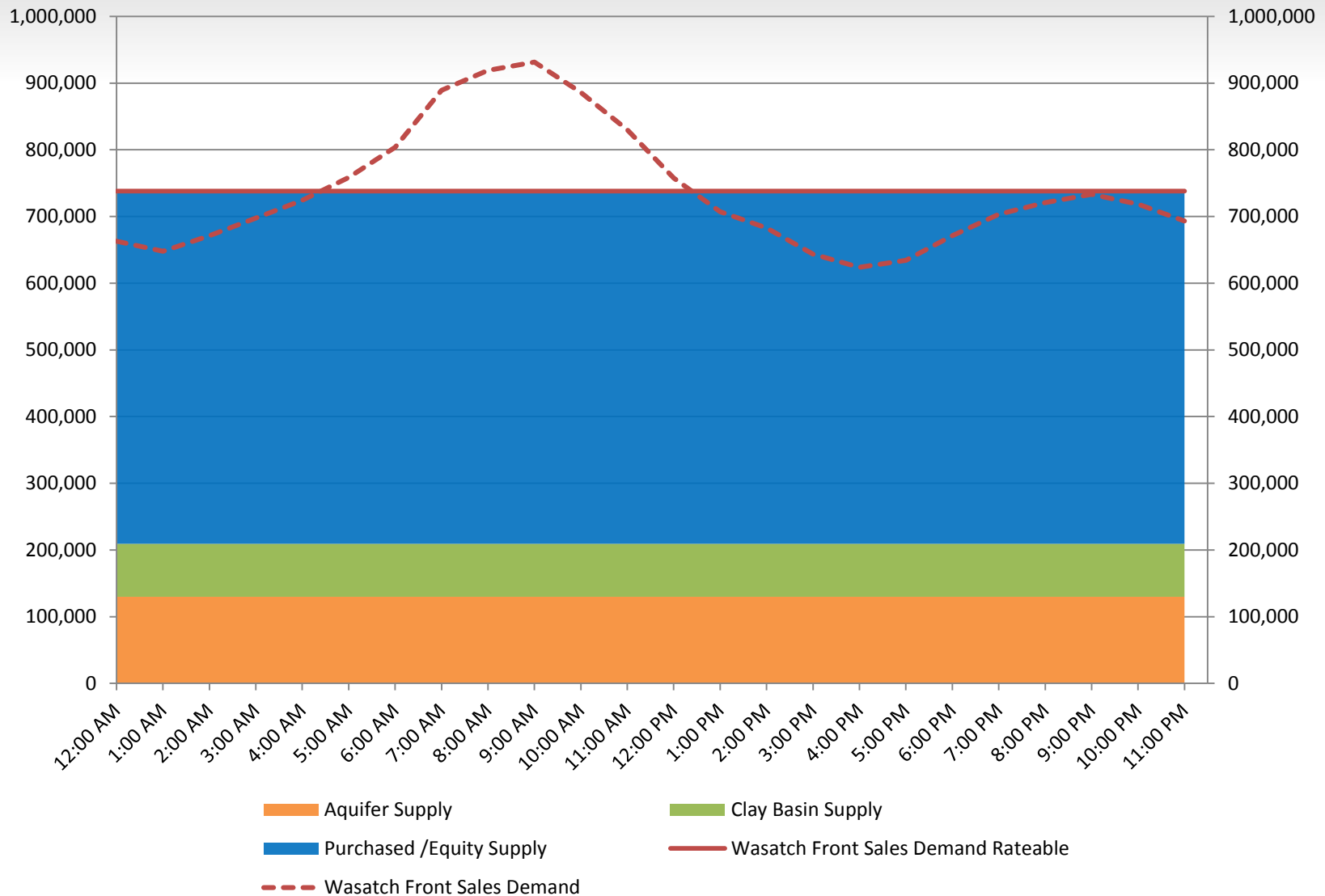
# Supply Source Comparison (IRP vs. Plan)



# 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

**QUESTAR**

## **System Capacity**

**QUESTAR<sup>®</sup>**  
**Gas**



# 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

**QUESTAR**

## **Infrastructure Replacement**

**QUESTAR<sup>®</sup>**  
**Gas**

# Aliso Storage Update



# 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)



**QUESTAR**

**Risk**

**QUESTAR<sup>®</sup>**  
**Gas**

# Scheduling Infrastructure Replacements



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



# Questar 2015 Risk Implementation

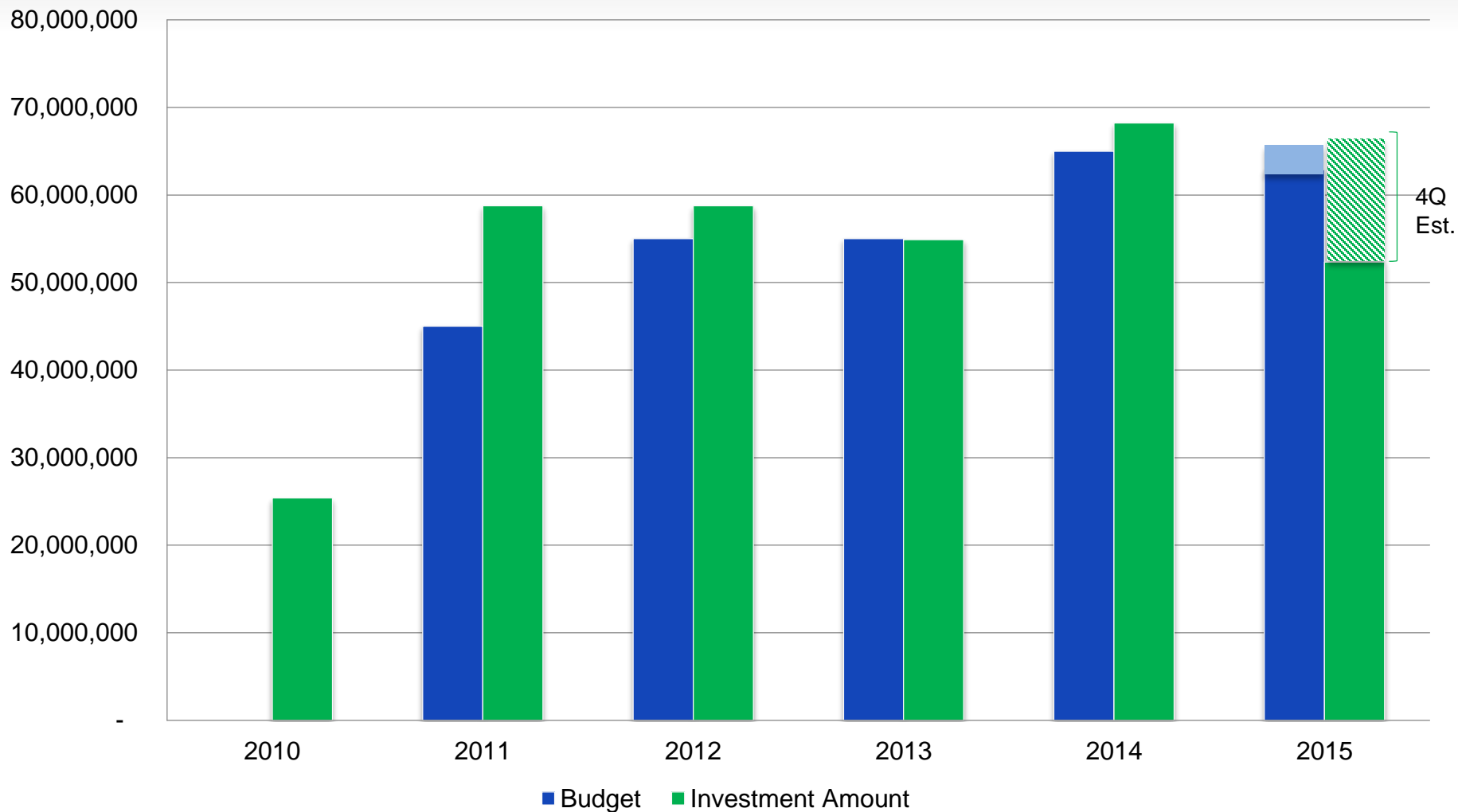
- Creation of a new state of the art algorithm by Dynamic Risk
- Dynamic Risk is the industry leader in pipeline risk evaluation and the development of new algorithm methods.
- The algorithm was implemented in New Century's Spatial Risk Analyst (SRA), which takes full advantage of PODS and the ability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



**QUESTAR**

**Thank You**

**QUESTAR<sup>®</sup>**  
**Gas**