





Agenda

- Introduction to Questar
- Introduction to ThermWise[®]
- Data efforts
 - ThermWise® Energy Comparison Report
 - ThermWise® Personalized Recommendations
 - Market Analysis

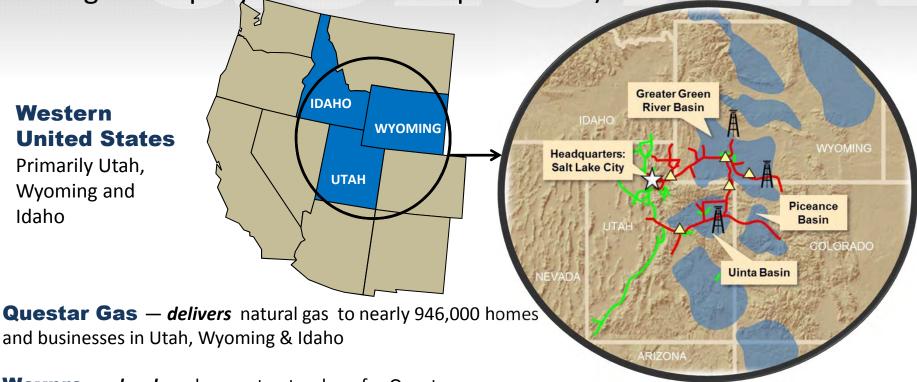




- Investor Owned Utility based in Salt Lake City,
 Utah
- Trades on the NYSE Under Stock Ticker: STR
- Enterprise Value: \$5.5 billion
- 1,720 Employees
 Questar
 Corporation
 Questar
 Questar
 Questar
 Questar
 Pipeline
 Wexpro



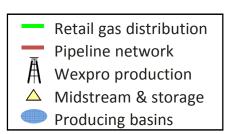
Questar Corporation is a growing Rockies-based integrated natural gas company with three complementary lines of business



Wexpro — *develops* low-cost natural gas for Questar Gas utility customers under the 1981 Wexpro Agreement

Questar Pipeline — *transports and stores* natural gas in the "heart of the Rockies" with over 2,600 miles of pipe and a 54 Bcf (working gas) storage field

Questar Fueling — manages and builds CNG stations for long-haul truckers $\mathbf{QUEST} \triangleq \mathbf{R}^{\otimes}$



Questar Gas Overview

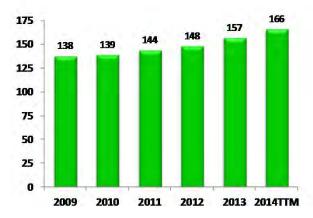
Key Facts & Statistics

Cities served 277 Customers @ 9/30/2014 954,754 1.7% Customer growth TTM 9/2014: 16,186 189 MMdth Deliveries (TTM 9/30/2014) System miles (12/31/2013) 27,861 miles Rate base (12/31/2013) \$1,042 MM Allowed Utah ROE (beg. 3/1/2014) 9.85% Allowed equity percentage 52% A2 (Moody's) / A (S&P) Ratings Regulators:

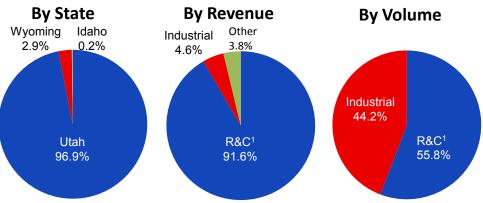
- -Public Service Commission of Utah ("PSCU")
- -Public Service Commission of Wyoming ("PSCW")

Ogden Gark City Gark City CoLORADO CoLORADO Colorado Colorado Questar Gas Major cities served Questar Pipeline

EBITDA (\$ millions)

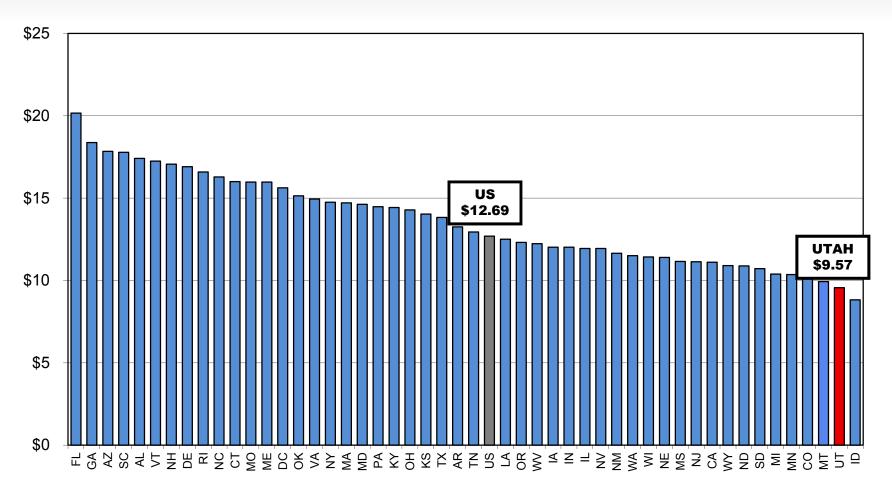


Customer base (9/30/2014)





Questar Gas's residential rates are among the lowest in the continental U.S.



\$ per Mcf, TTM 7/14; Source: U.S. Energy Information Administration



What is ThermWise?



- Questar Gas' branding for rate payer funded Energy Efficiency Program introduced in 2007
- To date spent over \$200 million
- Over \$150 million paid out in incentives
- 3.91 Million Dth Saved to date









ThermWise Programs

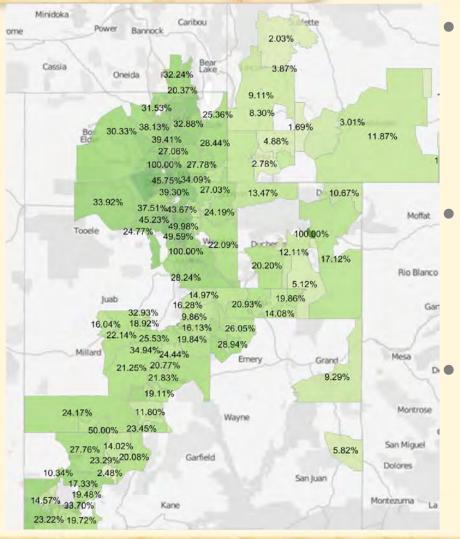
- Appliance Rebates \$50 \$750
- Builder Rebates \$50 to \$750
- Business Rebates \$25 \$1,000



- Business Custom Rebates \$1 / therm for first year after installation or 50% of eligible program costs
- Weatherization Program \$.18 / sqft to .32 / sqft
- Home Energy Plan \$25 refundable
- Low Income Programs \$500,000 provided to agencies
- Energy Comparison Report





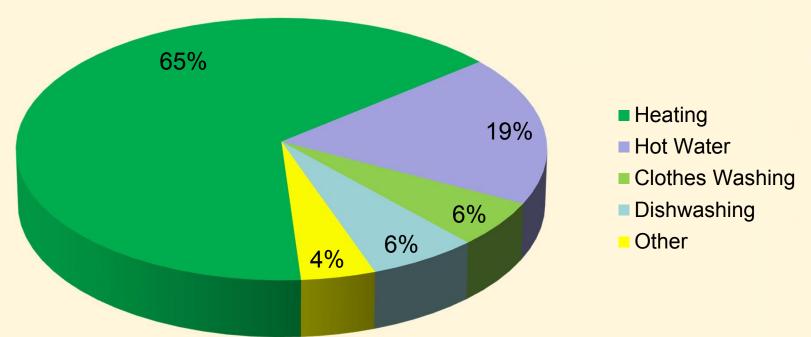


- ThermWise team works with manufacturers, distributors, retailers, builders and others to ensure natural gas equipment is available and installed
- 36% of Questar Gas customers had participated in at least 1 ThermWise Rebate program as of September 30, 2014
 - According to AGA 2013 survey data, QGC is one of only five natural gas utilities to achieve 20% or greater market participation rates





Utah Residential Customer Usage Breakdown



Typical residential customer 80 Dth per year Typical customer bill \$737.01 per year 69% of gas burned is in the winter five months Customers pay \$19.45 per year for programs







Energy Comparison Report

- Home Energy Reports ThermWise® Energy Comparison Report
 - Sent out to over 230,000 customers
 - Using data to educate our customers about their usage & help us better market to them.





Energy Comparison Report Changes

| | Version Prior to Fall 2014 | | Fall 2014 Version |
|---|----------------------------|---|----------------------------------|
| | Elements of Comparison | | Improved elements of Comparison: |
| - | Square Footage Bands (250 | - | Square Footage |
| | increment up to 5,000) | - | Year built |
| - | Year built (10 year bands) | - | Base load |
| - | Closest neighbors within | - | Peak to base / load factor |
| | weather zone | - | Weather Sensitivity (LRS) |
| - | Premise to premise | - | Use cosine similarity between |
| | comparison | | customers |
| | | - | Weather zone |
| | | - | Service Agreement to Service |
| | | | Agreement Comparison |





Improvements in Comparison

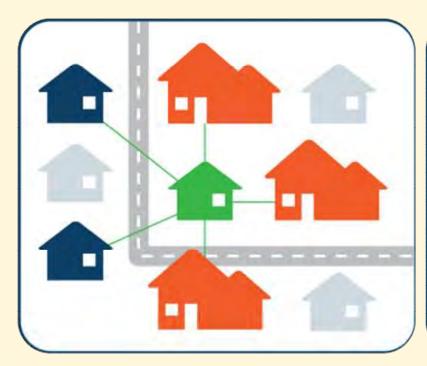


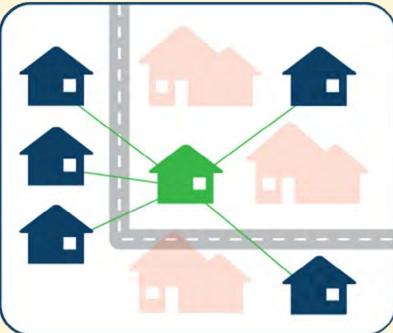
Company characteristics for comparison has improved with each subsequent rollout.





Improvements in Comparison

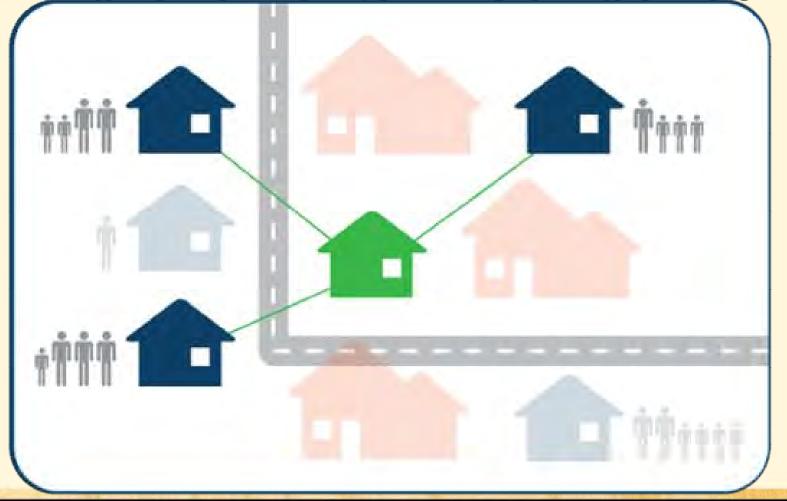








Improvements in Comparison







Cosine Similarity

- Mathematical formula which guarantees only the most similar customers will be compared
- Able to quantify similarity between customers and avoid unwarranted comparisons





Upselling













Frequently Bought Together



Price for all three: \$94.23

Add all three to Cart Add all three to Wish List

Show availability and shipping details

- This item: 1500 Thread Count Queen 4pc Bed Sheet Set Egyptian Quality Deep Pocket White by Choice Linen \$25.75
- Chezmoi Collection White Goose Down Alternative Comforter, Full/Queen with Corner Tab by Chezmoi Collection \$44.49
- ☑ Dream Supreme Plus Gel Fiber-Filled Pillows, Standard (Set of 2) by Dream Supreme Plus \$23.99

Customers Who Bought This Item Also Bought



1500 Thread Count Queen 4pc Bed Sheet Set Egyptian Quality Deep Pocket Sage 金倉倉倉 (216)



Dream Supreme Plus Gel Fiber-Filled Pillows, Standard (Set of 2) *** (920) \$23.99



Royal Hotel's 1200 Thread Count Queen Size Siberian Goose Down Alternative Comforter 100% Egyptian ... **常常常常意 (32)** \$84.99



Chezmoi Collection White Goose Down Alternative Comforter, Full / Queen with Corner Tab **京京京京京 (242)**

\$44,49 ▼ | Your Account & Help

Movies, TV shows, actors, directors, genres Q



3pc Egyptian Duvet Cover Set 1200 Thread Count Queen Size White ★★★★☆ (139) \$23.49



Queen Size White Goose Feather and Goose Down Pillows - Set of 2 ★★★★☆ (39) \$26.24



Clara Clark Goose Down Alternative Double Fill Comforter (Duvet) Queen Size, White / White **京京京市京 (95)** \$36.99



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Movies You'll *





Add movies to your Queue, or Rate ones you've seen for even better suggestions.



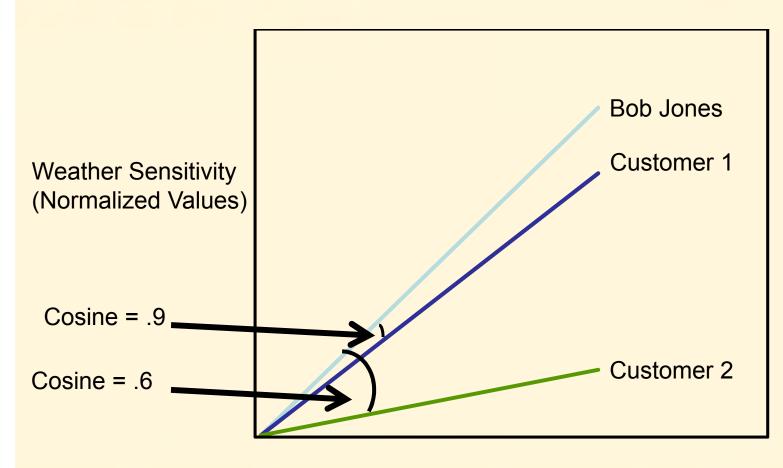














Bob Jones Customer

Base load (Normalized Values)





Similarity Computed



A cosine similarity index is computed across five characteristics (Square Footage, Year built, Base load, Peak to base (load factor), Weather Sensitivity (LRS) for each customer in weather zone by dwelling type.

Bob lives in Salt Lake City

| Sim (n1, Bob) | 0.7 |
|-------------------|------|
| Sim (n2, Bob) | 0.3 |
| Sim (n3, Bob) | 0.5 |
| Sim (n4, Bob) | 0.4 |
| Sim (n5, Bob) | 0.99 |
| | |
| | |
| Sim(n530,329,Bob) | |





Possible Recommendations

16 possible recommendations across the Weatherization and Appliance Programs



























Recommendations Calculated

Cosine similarity calculations are considered for all of the possible rebate promotions.

| Sim (n1, Bob) | 0.7 | | |
|-------------------|------|--|--|
| Sim (n2, Bob) | 0.3 | | |
| Sim (n3, Bob) | 0.5 | | |
| Sim (n4, Bob) | 0.4 | | |
| Sim (n5, Bob) | 0.99 | | |
| Siiii (113, 1500) | 0.99 | | |
| | | | |
| | | | |
| Sim(n530,329,Bob) | | | |

| | Water Heater | Furnace | Insulation | Washer |
|---------|-----------------|---------|------------|--------|
| n1 | 0.7 | 0.7 | 0.7 | 0.7 |
| n2 | | 0.3 | | 0.3 |
| n3 | 0.5 | 0.5 | 0.5 | 0.5 |
| n4 | | 0.4 | 0.4 | |
| n5 | 0 99 | 0.99 | | |
| Average | 0.73 | 0.66 | 0.53 | 0.50 |

For computation purposes in this example only the top three customers who have participated in the measure are included in the average computation.

As part of the recommender the top 100 cosine similarities relative to that customer are averaged.

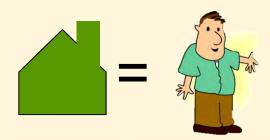






Recommendation Illustration

| Customer | Furnace | Water Heater | Insulation | Furnace | Fireplace |
|----------|---------|-----------------|------------|---------|-----------|
| N1 | | | | | |
| N2 | | | | | |
| N3 | | | | | |
| N4 | | | | | |
| N5 | | | | | |







ThermWise Personalized Recommendations

For residential customers to drive engagement in the program.

Set up Control / Experimental Group for the Program

10,000 – print recipients

10,000 - email recipients

With associated control groups

Will disseminate to customers twice per year.

Evaluation to occur after one year's time.

ThermWise® Personalized Recommendations

ENERGY EFFICIENCY JUST FOR YOU!



Account #: 01234500000

Report Period: 01/17/2015 - 02/19/2015

Report for Service Address:
123 Gas Lane, Salt Lake City, UT



John Q. Customer 123 Gas Lane Salt Lake City, UT

Your personalized ThermWise Recommendation shows you what users like you have done to save energy and money. The recommendations are based on homes with similar usage patterns, the age of the home, square footage, and location.

Based on of your unique usage characteristics including your annual consumption of ___ Dth and yearly bill of ____, customers with similar usage have done the following to improve their home's efficiency.

RECOMMENDATION 1:

WATER HEATER

Upgrade your water heater to a high efficiency model and take advantage of ThermWise rebates. Call 800-895-7375, or visit ThermWise.com for details. Questar Gas offers rebates up to \$750.



Save up to \$18 per year.

Customers who purchased this product have usage 73% similar to you

RECOMMENDATION 2:

FURNACE

Upgrade your furnace and take advantage of ThermWise rebates. Call 800-865-7375, or visit ThermWise.com for details. Questar Gas offers rebates up to \$600.



Save up to \$175 per year.

Customers who purchased this product have usage 66% similar to you.

RECOMMENDATION 3:

ATTIC INSULATION

Improve the comfort of your home, reduce your energy costs, and receive ThermWise rebates by adding insulation to your attic. Call 800-895-7375, or visit ThermWise.com for details. Questar Gas offers rebates up to \$0.25/sq. ft.



Save up to \$62 per year.

Customers who purchased this product have usage 53% similar to you

For more energy saving tips visit ThermWise.com "If you conserve, you can save."





Recommender Strategy

- Considerations:
- Expansion to online rebate application process
- Incorporate methodology to Company's Energy Comparison Report tips.





Market Analysis

- Engaged in a Customer
 Segmentation Study
- Analytics on customers profiles
- Begin utilizing NAICS codes for business customers.







Conclusion

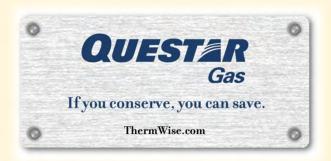
- Questar Gas is beginning to take advantage of data to further drive savings beyond just the low-hanging fruit
- Questar Gas believes that this effort will further drive savings by new programs, better analysis, and enhanced marketing deployment.







Questions?



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