

# **ENSTAR/CINGSA Supply Update**

Presented to:

**Commonwealth North Energy Action Coalition**

November 2, 2012

# Project Summary

- Constructed to meet winter demand
- CINGSA:
  - A compression/gas conditioning facility
  - Five injection/withdrawal storage wells
  - A gas storage reservoir in Cannery Loop – Sterling C Pool
  - 16” / 1,392’ pipeline to compression/gas conditioning facility
  - 20” / 1,324’ pipeline connection to KNPL
- Benchmarks:
  - Construction began November 2010
  - Injections began in April 2012
  - Withdrawals are anticipated in late 2012
  - 340,000 man-hours with no recordable incidents

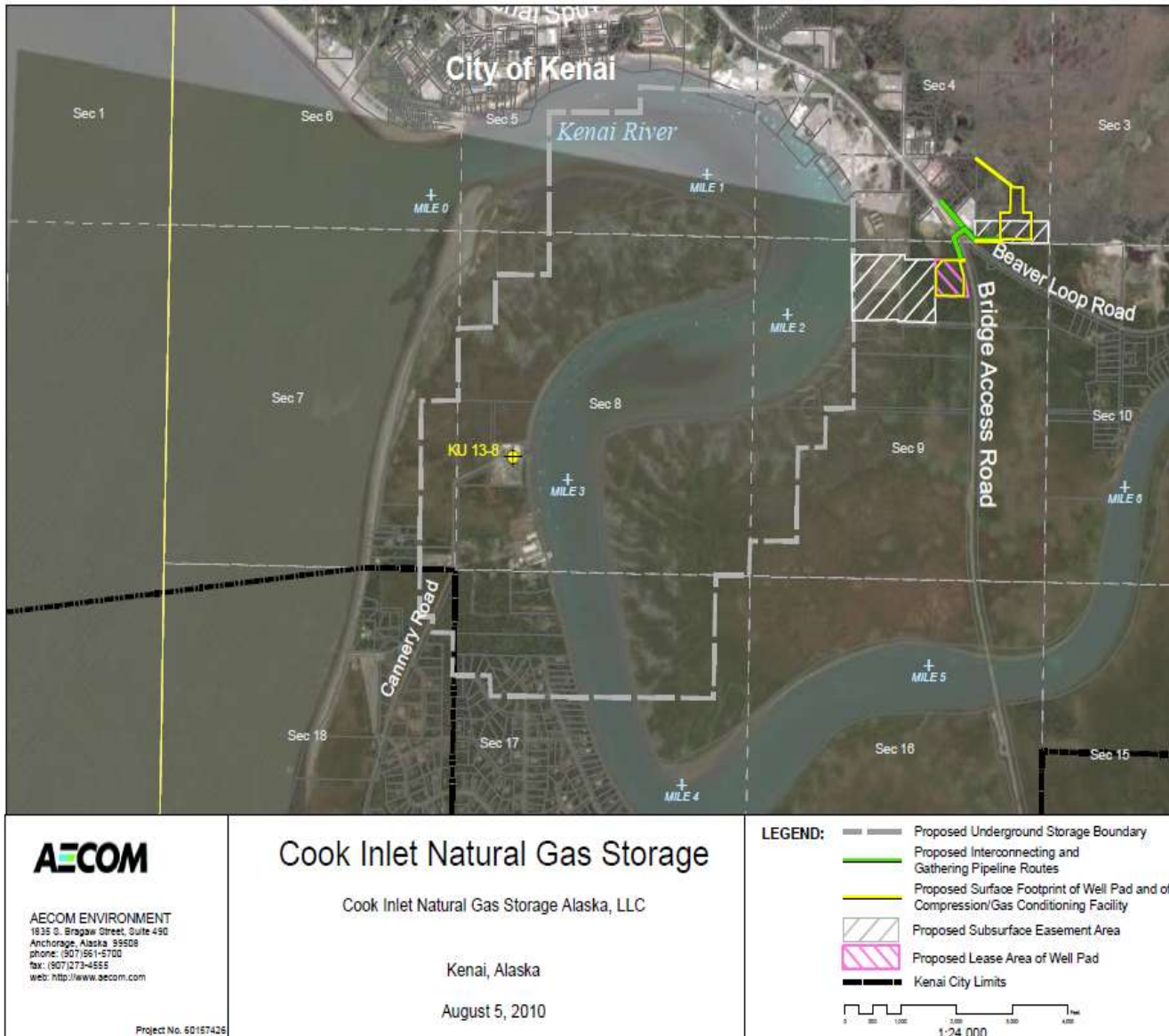
# Project Impact

- Currently allows for storage of 11 BCF
- Will meet 45% of monthly average peak demand in the winter
- Allows for the purchase and storage of gas during summer for use during winter peak demands
- If needed, provides for storage of imported LNG or CNG



Photo by Robin Barry, ENSTAR

# CINGSA: Aerial View



# Compression/Processing Facility



# Compression/Processing Facility



# Nabors Drill Rig





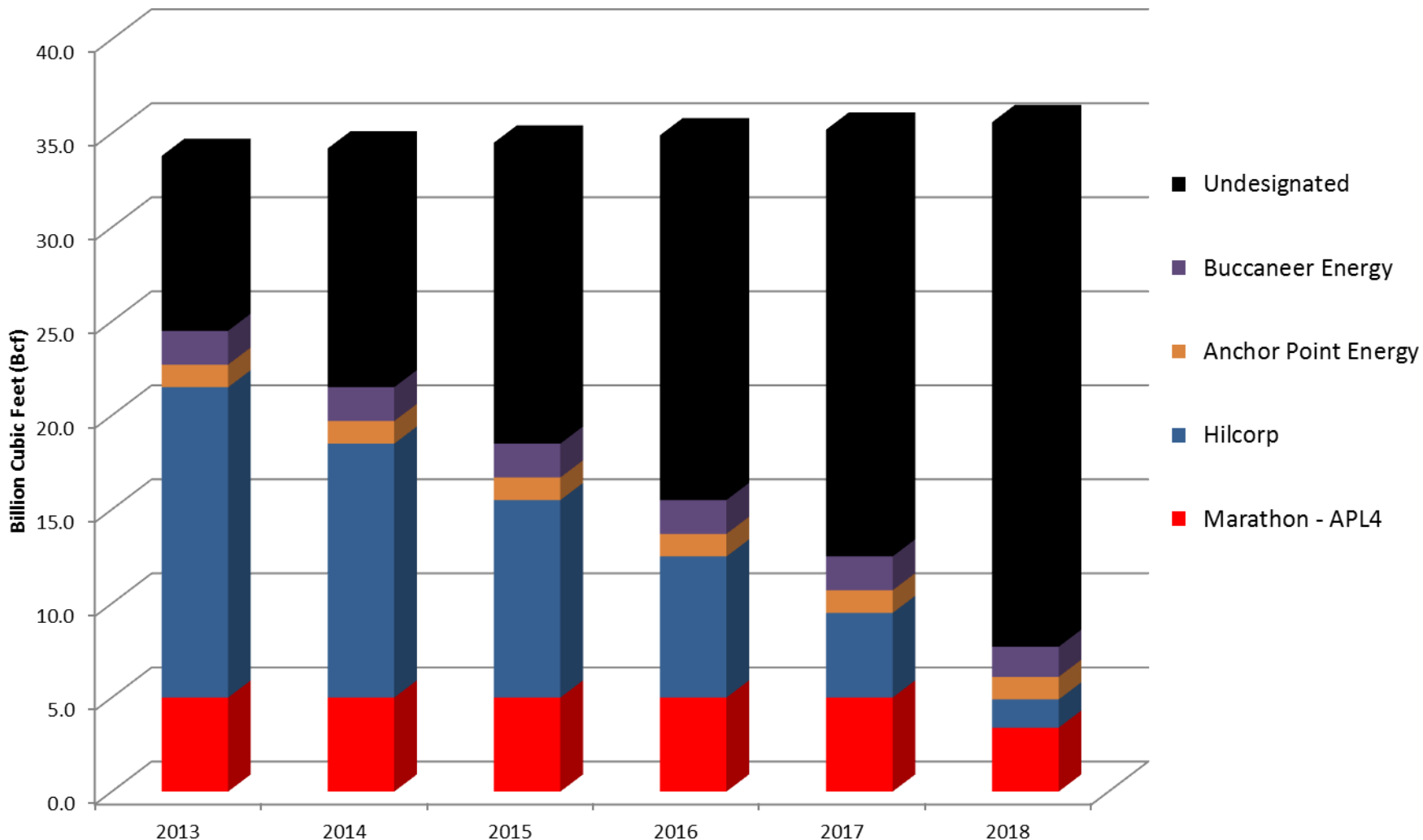




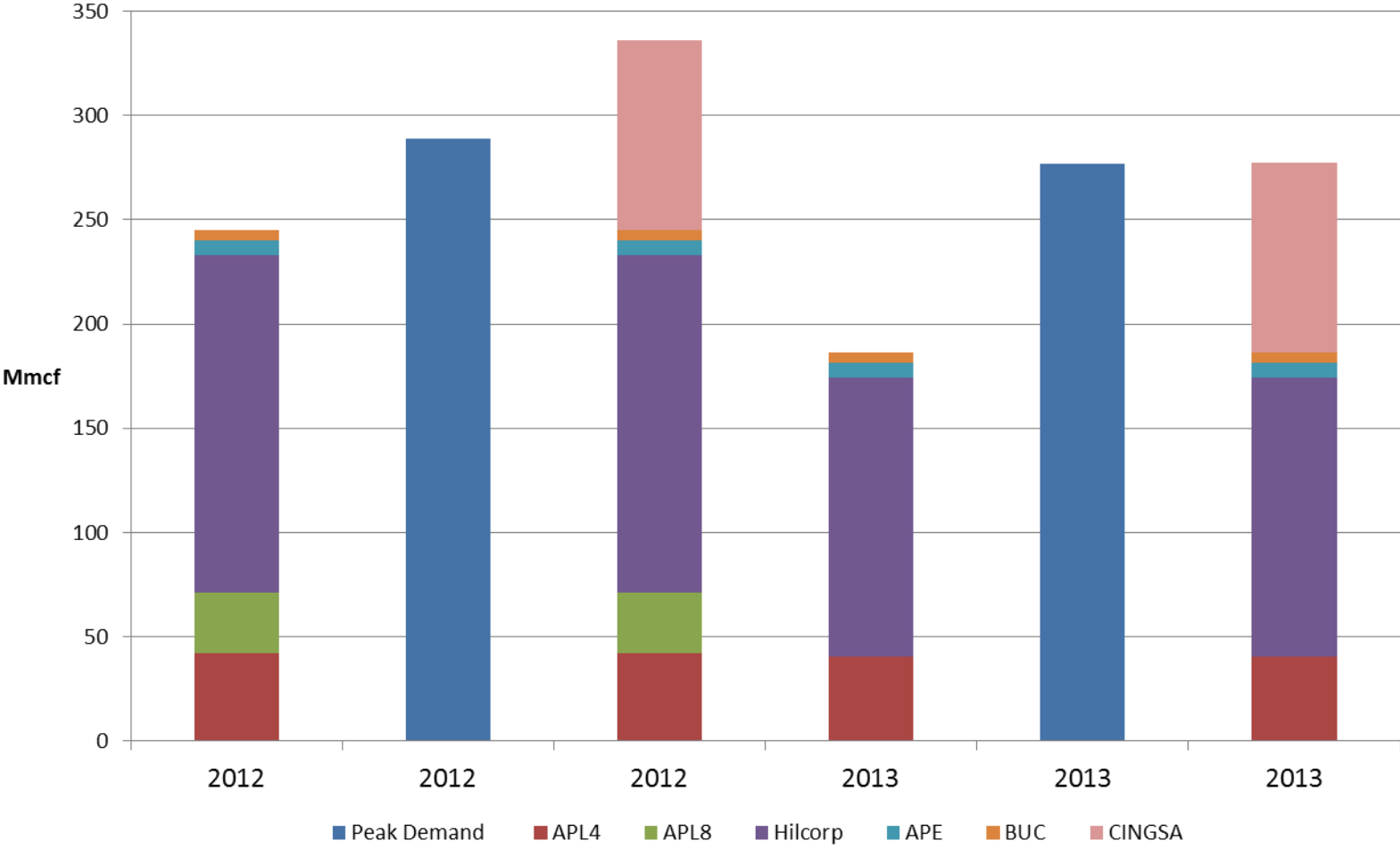
# ENSTAR Gas Supply

*All Our **Energy** Goes Into Our Customers*

# ENSTAR's Forecasted Annual Demand/Committed Supply 2013-2018









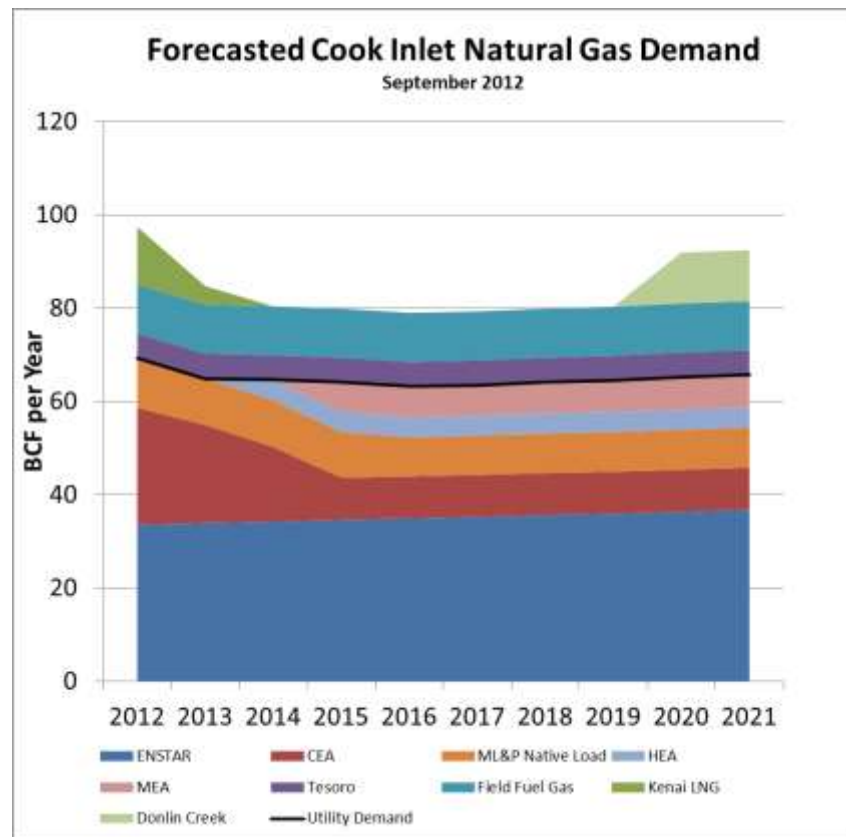
# ENSTAR's Contracted Deliverability & Peak Day Demand Winter 2012/2013



# South Central Demand

## Projected User      2014-19

	ENSTAR	44%
	Chugach Electric	13%
	Field Fuel Gas	13%
	HEA/MEA	12%
	ML&P	11%
	Tesoro	7%



# Current Status Report

## “Three steps forward”



- Cook Inlet Recovery Act has resulted in increased activity – but does not match production decline
- CINGSA gas storage facility operational
- Utility activities to further reduce gas demand
  - Generation unit efficiency
  - Renewable energy
  - Conservation & efficiency
  - Expand hydro

# Impacts of Incentives



**Aurora**



**Anchor Point Energy**

**Furie Operating Alaska LLC**



**Cook Inlet Energy**



***All Our Energy Goes Into Our Customers***

# “Two Steps Back?”

- Although Cook Inlet activity is up, results have been disappointing
  - New wells do not keep pace with production decline
- Gas price uncertainty
  - Henry Hub based prices drop
  - Japan LNG prices move to all-time high
- Ownership changes
  - Well re-work efforts stalled
  - New drilling stalled
  - Contract discussions stalled

# Cook Inlet Drilling Results

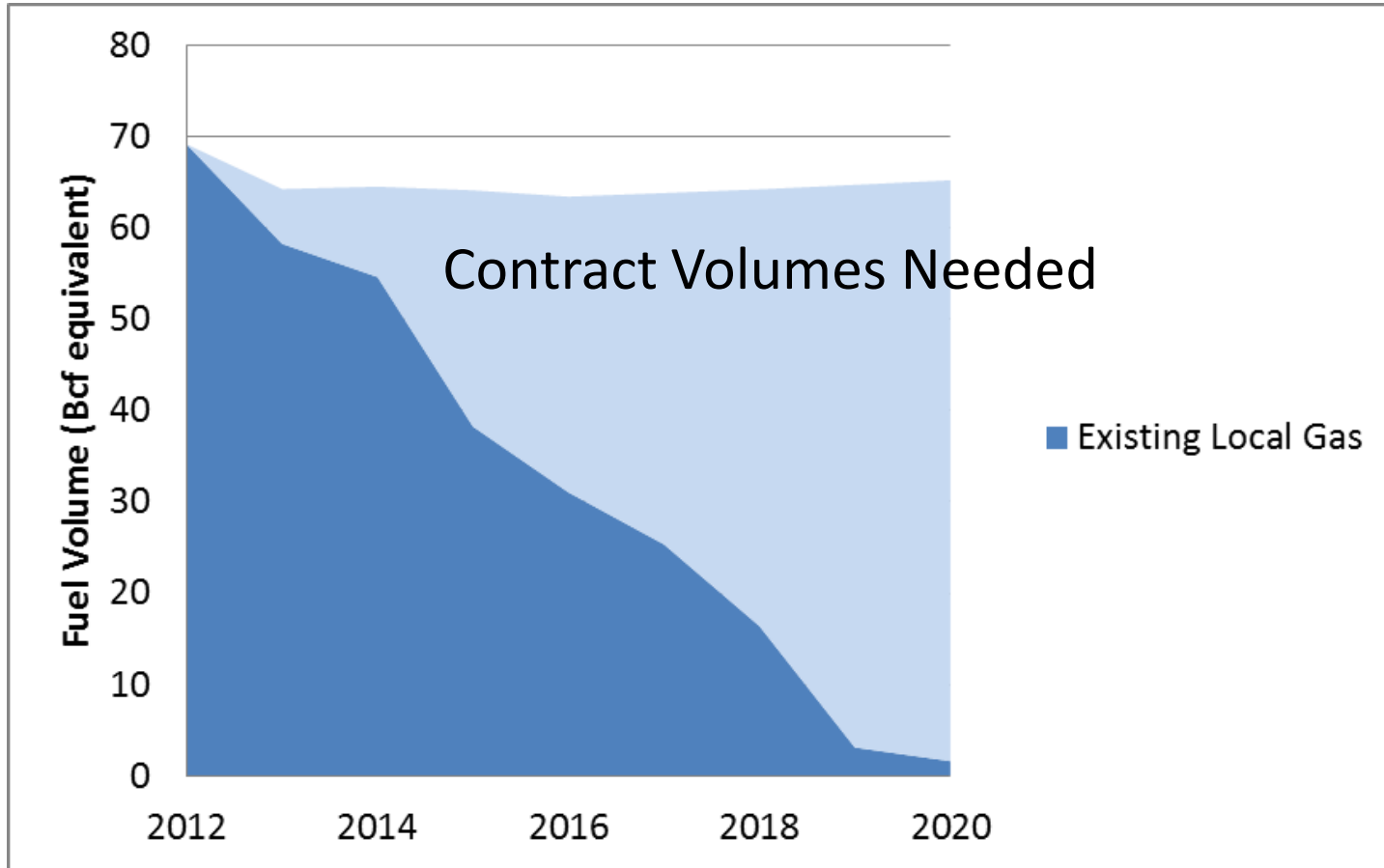
Period	Gas Wells Completed	Average Wells per Year	Initial Production (MMCF/day)
2001-2009	105	12.3	3.6 per well
2007-2009	34	13.6	3.1 per well
Nov-09 to Oct-10	5	5	3.7 per well
Nov-10 to Oct-11	6	6	1.7 per well
Nov-11 to Jun-12	4	6	5.4 per well



# Moving Forward

- All stakeholders working towards adequate gas supply, however, utilities short contracted volumes
- PRA report still indicates Cook Inlet production shortfall by 2015
- Utilities can no longer wait for Cook Inlet market to respond

# Need vs. Time



# Imported Gas: LNG or CNG

- LNG is a commodity that can be contracted for import into Cook Inlet
  - Use of existing infrastructure or other for re-gas
  - Recent Spot Prices: \$12-\$15/MCF
- Compressed Natural Gas (CNG) tankers is another option for importing gas
  - Possible range: \$9 - \$12/MCF

**With timely engineering and permitting, LNG or CNG could be imported to fulfill short-term needs**

# Work Plan – Evaluation & Decision

- Northern Economics contracted to compare CNG with LNG
- Decision timeline – first quarter 2013
- Contracts to be negotiated
  - Gas supply agreement
  - Gas transport tariff
  - Transport (shipping) agreement
  - Load and unload (dock) facilities/equipment
  - Various permits
- Timeline is critical

## Summary: Possibilities to Meet Demand

- Infield drilling: Recent history of activity level does not predict this option will meet demand beyond 2015
- On-shore Exploration: If successful, will take time for development; could impact timing of shortfall
- Off-shore Exploration: Not proven; 3-5 years from discovery to production
- Instate Gas Line (ASAP): Will not be operational until 2020
- Imported LNG or CNG: May bridge demand shortfall until exploration and/or instate gas line provide sufficient supply

# Conclusions

- Absent major, new discoveries that can be brought online in 1-2 years, the current pace of development could mean a shortfall in Cook Inlet supply to meet demand in 2014 or 2015.
- LNG or CNG import is the only “certain” method to ensure no shortfall.
- CINGSA storage is capable of storing Cook Inlet produced gas or imported gas for winter demand.

# Questions?