Peoples Gas and North Shore Gas Natural Gas Savings Programs Third Triennial Preliminary Plan

Presentation to the Stakeholder Advisory Group
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June 28, 2016





Agenda

- Phase III Portfolio Objectives
- High Level Budget
- Program Discussion Low Income
- Program Discussion Residential
- Program Discussion Business
- Feedback





Phase III Portfolio Objectives

- 1. Meet legislative requirements to implement a portfolio of programs that will produce cost-effective savings to the extent possible within the budgetary cap. Cost-effectiveness at the portfolio level and 3-year program level.
- 2. Provide opportunities to participate for all customers (excluding electric generation customers and customers who have opted-out).
- 3. Build on past experiences and proven technologies, while introducing limited emerging technologies to the market to spur future demand that would aid in market transformation.
- 4. Is easily scalable and allows for flexible responsiveness to market conditions.





Key Changes

- Added Low Income Program
- Reduced behavior change
- Increased budget for emerging technologies
- Expanded On-Bill Financing availability to eligible customers for all rebated measures





High Level Budget – Peoples Gas

Peoples Gas												
Savings	PY7	PY8	PY9	Total								
Throughput (Therms)	1,354,563,430	1,354,563,430	1,354,563,430	4,063,690,290								
Statutory Savings Goal (Percent)	1.40%	1.50%	1.50%	n/a								
Statutory Savings Goal (Therms)	18,963,888	20,318,451	20,318,451	59,600,791								
Utility Savings (Therms) - 80% of Statutory Goal	15,171,110	16,254,761	16,254,761	47,680,633								
DCEO Savings (Therms) - 20% of Statutory Goal	3,792,778	4,063,690	4,063,690	11,920,158								
Utility Proposed Modified Savings Goal (Therms)	8,391,967	8,349,666	8,284,423	25,026,057								
Utility Proposed Modified Savings Goal (Percent)	0.62%	0.62%	0.61%	n/a								

	Peoples Gas												
Budget Cap	\$27,239,000	PY7	PY8	PY9	Total								
Utility Allocation @	75%	\$20,429,250	\$20,429,250	\$20,429,250	\$61,287,750								
Research & Development (Emerging Technol	ogies)	\$612,878	\$612,878	\$612,878	\$1,838,633								
EM&V Implementation		\$612,878	\$612,878	\$612,878	\$1,838,633								
Portfolio Adminstration (Including Planning)		\$900,000	\$900,000	\$900,000	\$2,700,000								
Portfolio Marketing & Education		\$675,000	\$675,000	\$675,000	\$2,025,000								
Studies (i.e., Potential Studies External costs)		\$240,000		\$240,000								
Total Portfolio Costs		\$2,800,755	\$3,040,755	\$2,800,755	\$8,642,265								
Available Program Budget		\$17,628,495	\$17,388,495	\$17,628,495	\$52,645,485								
PGL Subtotal		\$20,429,250	\$20,429,250	\$20,429,250	\$61,287,750								
DCEO Allocation @	25%	\$6,809,750	\$6,809,750	\$6,809,750	\$20,429,250								
PGL w/DCEO Subtotal		\$27,239,000	\$27,239,000	\$27,239,000	\$81,717,000								





High Level Budget – North Shore Gas

North Shore Gas											
Savings	PY7	PY8	PY9	Total							
Throughput (Therms)	296,259,200	296,259,200	296,259,200	888,777,600							
Statutory Savings Goal (Percent)	1.40%	1.50%	1.50%	n/a							
Statutory Savings Goal (Therms)	4,147,629	4,443,888	4,443,888	13,035,405							
Utility Savings (Therms) - 80% of Statutory Goal	3,318,103	3,555,110	3,555,110	10,428,324							
DCEO Savings (Therms) - 20% of Statutory Goal	829,526	888,778	888,778	2,607,081							
Utility Proposed Modified Savings Goal (Therms)	1,373,154	1,233,622	1,200,570	3,807,346							
Utility Proposed Modified Savings Goal (Percent)	0.46%	0.42%	0.41%	n/a							

	No	rth Shore Gas			
Budget Cap	\$3,958,000	PY7	PY8	PY9	Total
Utility Allocation @	75%	\$2,968,500	\$2,968,500	\$2,968,500	\$8,905,500
Research & Development (Emerging	Technologies	\$89,055	\$89,055	\$89,055	\$267,165
EM&V Implementation		\$89,055	\$89,055	\$89,055	\$267,165
Portfolio Adminstration (Including Pl	anning)	\$300,000	\$300,000	\$300,000	\$900,000
Portfolio Marketing & Education		\$200,000	\$200,000	\$200,000	\$600,000
Studies (i.e., Potential Studies Extern	nal costs)		\$240,000		\$240,000
Total Portfolio Costs		\$678,110	\$918,110	\$678,110	\$2,274,330
Available Program Budget		\$2,290,390	\$2,050,390	\$2,290,390	\$6,631,170
NSG Subtotal	\$2,968,500	\$2,968,500	\$2,968,500	\$8,905,500	
DCEO Allocation @	\$989,500	\$989,500	\$989,500	\$2,968,500	
NSG w/DCEO Subtotal		\$3,958,000	\$3,958,000	\$3,958,000	\$11,874,000





Program Level Budget – Peoples Gas

		PEOPLES GAS Budget Proposed								
	TRC	GPY	7	GPY8		(SPY9	Tota	al	
		Est\$	% of <i>Total</i>	Est\$	% of Total	Est\$	% of Total	Est\$	% of <i>Total</i>	
Low Income Program	1.10	\$3,348,495	18.99%	\$3,348,495	19.26%	\$3,348,495	18.99%	\$10,045,485	19.08%	
Residential Program	2.35	\$8,280,000	46.97%	\$8,130,000	46.76%	\$8,280,000	46.97%	\$24,690,000	46.90%	
Business Program	1.35	\$6,000,000	34.04%	\$5,910,000	33.99%	\$6,000,000	34.04%	\$17,910,000	34.02%	
Total	1.57	\$17,628,495	100.00%	\$17,388,495	100.00%	\$17,628,495	100.00%	\$52,645,485	100.00%	





Program Level Budget – North Shore Gas

		NORTH SHORE GAS Budget Proposed										
TRO		GPY7		GPY8		GPY9		Total				
		Est\$	% of Total	Est\$	% of <i>Total</i>	Est\$	% of Total	Est\$	% of Total			
Residential Program	1.92	\$1,290,000	56.32%	\$1,110,000	54.14%	\$1,290,000	56.32%	\$3,690,000	55.65%			
Business Program	1.59	\$1,000,390	43.68%	\$940,390	45.86%	\$1,000,390	43.68%	\$2,941,170	44.35%			
Total	1.50	\$2,290,390	100.00%	\$2,050,390	100.00%	\$2,290,390	100.00%	\$6,631,170	100.00%			





Programs at a Glance

Programs	Low Ir	ncome	Resid	ential	Business	
Market Offerings	Single Family	Multi- Family	Single Family	Multi- family	Small Business	C&I
Path						
Outreach & Education						
- Behavior	х	X	X	х		
- EEE	х	X	Х	х		
Assessments						
- High level (w/DI)	х	X	X	х	х	х
- In Depth		Х		х		
- Gas Optimization				х		х
- RCx						х
- Engineering Studies						Х
Rebates/Grants						
- Staffing						Х
- Standard Rebate			х	х	х	х
- Partner Trade Ally			х	х	Х	
- Local Orgn Partner	х	х				
- Custom				х	х	х





Non Cost-Effective Measures

- Non cost-effective measures included in the portfolio to:
 - 1. Transform the market
 - 2. Offer customers a more comprehensive program

Included in the Portfolio								
Market Offering	Measure							
Residential	Bathroom Aerator							
Residential	Boiler/Integrated Boiler							
Residential	On-Demand Circulating Hot Water Pump							
Business	Boiler Tune Up							
Business	Steam Boiler							
Business	Steam Trap - No Audit							

Not Included in the Portfolio								
Market Offering	Measure							
Residential	Water Heater (Tankless, Storage)							
Residential	Wall Insulation							
Business	Combination Oven							
Business	Dock Door Seals							
Business	Energy Recovery Ventilator							
Business	Water Heater (Storage)							





Guiding Principles in Low Income Program Design

- Pilot program planned in Peoples Gas in PY6
- Focus on deeper retrofits
- Comprehensiveness and quality over quantity
- Use existing infrastructure whenever possible





Low Income Program – Peoples Gas

Proposed Retrofit Model

- Leverage DCEO program
- Co-brand w/ DCEO
- Cost and savings allocated by entity
- Focus on SF bungalows and Multi-family

Programs	Low Income						
Market Offerings	Single	Multi-					
Warker Offerings	Family	Family					
Paths							
Outreach & Education							
- Behavior	Х	х					
- EEE	Х	х					
Assessments							
- High level (w/DI)	Х	х					
- In Depth		х					
Rebates/Grants							
- Local Orgn Partner	x	x					





Low Income Program – Peoples Gas

	TRC		PGL PY7	7	PGL PY8			PGL PY9		
	IKC	Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms
Low Income Outreach & Education		\$126,800	136,494	250,382	\$126,800	119,171	220,115	\$126,800	98,362	183,757
Low Income Retrofit SF		\$908,000	49,766	746,484	\$908,000	49,766	746,484	\$908,000	49,766	746,484
Low Income Retrofit MF		\$2,029,195	645,858	8,916,895	\$2,029,195	645,858	8,916,895	\$2,029,195	645,858	8,916,895
Low Income New Construction SF		\$131,500	22,322	400,370	\$131,500	22,322	400,370	\$131,500	22,322	400,370
Low Income New Construction MF		\$153,000	61,000	915,000	\$153,000	61,000	915,000	\$153,000	61,000	915,000
Total Low Income Program	1.10	\$3,348,495	915,440	11,229,132	\$3,348,495	898,117	11,198,865	\$3,348,495	877,308	11,162,506





Low Income Outreach and Education

- Behavior Change (SF/MF): Customers receive reports containing information on their energy use, a comparison to other homes, and actions to affect natural gas energy use.
- Energy Efficiency Education (SF/MF): Fifth-grade students receive a kit containing EE products to install at home. Teachers receive lesson plans and activities designed to teach students about energy production and conservation.





Low Income Single Family

- Retrofit
 - High Level Assessment
 - Deeper Retrofits: a list of qualifying measures will be developed with parties (examples: insulation, air sealing, etc.)
 - Emergency Replacement: heating system, water heater
 - Heating System Clean and Tune
 - Health and Safety Measures
 - Inspections
- New Construction: Enhanced rebates





Low Income Multi-Family

- Retrofit
 - High Level Assessment
 - In-Depth Assessment: energy advisors identify and recommend eligible prescriptive projects available to the property
 - Deeper Retrofits: a list of qualifying measures and incentives will be developed with parties (examples: insulation, steam traps, etc.)
 - Health and Safety Measures
 - Inspections
- New Construction: Enhanced rebates





Residential Program

Programs	Residential							
Market Offerings	Single	Family	Multi-	Family				
Walket Offerings	Existing	NC	Existing	NC				
Path								
Outreach & Education								
- Behavior	х		x					
- EEE	х		x					
Assessments								
- High level (w/DI)	х		х					
- In Depth			x					
- Gas Optimization			х					
Rebates								
- Standard Rebate	х	х	X	х				
- Partner Trade Ally	х		х					
- Custom			х	Х				

- No major changes from current triennial
- Reduced behavior change
- Increased Elementary Energy Education





Residential Program – Peoples Gas

	TRC	PGL PY7			PGL PY8			PGL PY9		
		Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms
Residential Outreach & Education		\$441,186	415,808	839,154	\$441,186	367,514	754,773	\$441,186	309,503	653,414
Residential Assessments SF		\$1,982,425	707,981	5,222,325	\$1,982,425	707,981	5,222,325	\$1,982,425	707,981	5,222,325
Residential Assessments MF		\$1,247,846	398,741	3,555,454	\$1,247,846	398,741	3,555,454	\$1,247,846	398,741	3,555,454
Residential Rebates SF		\$1,914,840	522,450	9,469,141	\$1,864,840	522,450	9,469,141	\$1,914,840	522,450	9,469,141
Residential Rebates MF		\$2,693,703	2,158,284	30,583,647	\$2,593,703	2,158,284	30,583,647	\$2,693,703	2,158,284	30,583,647
Total Residential Program	2.35	\$8,280,000	4,203,264	49,669,723	\$8,130,000	4,154,970	49,585,341	\$8,280,000	4,096,959	49,483,982





Residential Program – North Shore Gas

	TRC	NSG PY7			NSG PY8			NSG PY9		
		Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms
Residential Outreach & Education		\$365,300	460,162	822,036	\$365,300	327,726	590,638	\$365,300	287,578	520,490
Residential Assessments SF		\$359,848	130,937	893,159	\$330,849	130,937	893,159	\$359,848	130,937	893,159
Residential Assessments MF		\$459,470	136,448	2,560,322	\$338,470	136,448	2,560,322	\$459,470	136,448	2,560,322
Residential Rebates SF		\$69,923	21,493	203,424	\$46,822	14,396	136,295	\$69,923	21,493	203,424
Residential Rebates MF		\$35,459	18,076	252,805	\$28,559	18,076	252,805	\$44,059	18,076	252,805
Total Residential Program	1.92	\$1,290,000	767,116	4,731,745	\$1,110,000	627,584	4,433,219	\$1,298,600	594,532	4,430,200





Residential Outreach and Education

- Behavior Change (SF/MF): Customers receive reports containing information on their energy use, a comparison to other homes, and actions to affect natural gas energy use.
- Energy Efficiency Education (SF/MF): Fifth-grade students receive a kit containing EE products to install at home. Teachers receive lesson plans and activities designed to teach students about energy production and conservation.





Residential Assessments

- High Level Assessment w/ DI (SF/MF): Free energy assessment and free installation of energy savings products
- *In-Depth Assessment* (MF): Energy advisors identify and recommend projects eligible for rebates available to the property
- Gas Optimization (MF): Large users receive an advanced gas usage study to identify energy conservation measures related to building heat





Residential Rebates

- Standard Rebates (SF/MF): Rebates for prescriptive (pre-qualified) measures
- Partner Trade Ally (PTA)
 - Weatherization (SF/MF): Network of contractors to perform weatherization
 - *PTA Rebates* (MF): Network of qualified contractors offer customers higher incentives on most prescriptive measures
- Custom (MF): Rebates for non-prescriptive measures, including new construction
- New Construction (SF): Incentives designed to push building efficiency beyond what is required through compliance with building codes





Business Program

Program	Business							
Market Offering	Small B	usiness	C&I					
Market Offering	Existing	NC	Existing	NC				
Path								
Assessments								
- High level (w/DI if appro)	х		х					
- Gas Optimization			x					
- RCx			х					
- Engineering Studies			х					
Rebates/Grants								
- Staffing			х					
- Standard Rebate	х	X	х	x				
- Partner Trade Ally	х	x						
- Custom	х	X	х	Х				

- No major changes from current triennial
- Added laminars as a direct install measure for health care facilities
- Looking to take kitchen equipment upstream





Business Program – Peoples Gas

	TRC	PGL PY7			PGL PY8			PGL PY9		
		Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms
Business Assessments SB		\$152,206	100,243	969,156	\$151,351	100,243	969,156	\$151,351	100,243	969,156
Business Assessments C&I		\$2,396,730	1,412,030	14,328,882	\$2,357,730	1,412,030	14,328,882	\$2,357,730	1,412,030	14,328,882
Business Rebates SB		\$1,080,747	382,608	4,153,554	\$1,042,922	390,186	4,251,150	\$1,114,047	395,227	4,316,902
Business Rebates C&I		\$2,370,317	1,378,382	19,798,198	\$2,357,997	1,394,121	19,990,330	\$2,376,872	1,402,657	20,096,035
Total Business Program	1.35	\$6,000,000	3,273,264	39,249,789	\$5,910,000	3,296,580	39,539,517	\$6,000,000	3,310,157	39,710,973





Business Program – North Shore Gas

	TRC	NSG PY7			NSG PY8			NSG PY9		
		Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms	Budget	Therms	Lifetime Therms
Business Assessments SB		\$30,155	9,659	101,368	\$30,155	9,659	101,368	\$30,155	9,659	101,368
Business Assessments C&I		\$469,776	257,929	1,313,211	\$447,776	257,929	1,313,211	\$469,776	257,929	1,313,211
Business Rebates SB		\$68,910	29,738	424,146	\$63,910	29,738	424,146	\$68,910	29,738	424,146
Business Rebates C&I		\$431,549	308,711	4,299,367	\$398,549	308,711	4,299,367	\$431,549	308,711	4,299,367
Total Business Program	1.59	\$1,000,390	606,038	6,138,092	\$940,390	606,038	6,138,092	\$1,000,390	606,038	6,138,092





Business Assessments

- High Level Assessment w/ DI (C&I/SB): Free installation of energy savings products
- Engineering Studies (C&I): Incentives to offset the cost of energy audits or implementation studies
- Gas Optimization Studies (C&I): Fund studies on central steam plant and/or process heating energy optimization to identify low/no-cost "actionable" measures
- Retro-Commissioning (C&I)
 - Engineering Study: Fully-funded study if customer commits to spend a set minimum amount on identified implementation measures
 - RCx Building Tune-Up: Small facilities receive a fully-funded engineering study and implementation of selected operational improvements at no cost





Business Rebates/Grants

- Standard Rebates (C&I/SB): Rebates for prescriptive (pre-qualified) and custom (non-prescriptive) measures
 - Considering upstream incentives for commercial kitchen equipment
 - New construction incentives designed to push building efficiency beyond what is required through compliance with building codes
- Partner Trade Ally (SB): Qualified Trade Allies engage customers to participate in site assessments to identify additional savings opportunities
- Staffing Grants (C&I): Assist customers overcome internal operational hurdles to identifying, planning and implementing projects through embedded energy managers, strategic energy management or staffing grants





Summary/Feedback

- Key Changes
 - Added Low Income Program
 - Reduced behavior change
 - Increased budget for emerging technologies
 - Expanded On-Bill Financing availability to eligible customers for all rebated measures

Feedback due by mid-July



