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

Presentation to the Stakeholder Advisory Group Patrick Michalkiewicz and Paige Knutsen March 29, 2016





Agenda

- Phase III Portfolio Objectives and Key Changes
- High Level Budget
- Program Discussion Business
- Program Discussion Residential
- Guiding Principles for Low-Moderate Income Program Design
- Program Discussion Low-Moderate Income
- Summary and Feedback





Phase III Portfolio Objectives

- 1. Meet legislative requirements to implement a portfolio of energy efficiency programs that will produce cost effective savings to the extent possible within the budgetary cap. Cost effectiveness is at the portfolio level and at the 3-year program level.
- 2. Provide opportunities to participate for all customers (excluding electric generation customers and customers who have opted-out).





Phase III Portfolio Objectives

- 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.





Phase III Key Changes

- Inclusion of a Low-Moderate Income Program for Single Family and Multi-Family Customers
- Reduction in behavior change components
- Increased budget for emerging technologies





High Level Budget – Peoples Gas

	PEOPLES GAS			
Savings	GPY7	GPY8	GPY9	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	59,600,790
Utility Savings (Therms) - 80% of Statutory Goal	15,171,110	16,254,761	16,254,761	47,680,632
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)	7,730,671	7,753,987	7,768,786	23,253,444
Utility Proposed Modified Savings Goal (Percent)	0.57%	0.57%	0.57%	n/a

		PEOPLES GAS			
Budget Cap	udget Cap \$27,239,000			GPY9	Total
Utility Allocation @	75%	\$20,429,250	\$20,429,250	\$20,429,250	\$61,287,750
Research & Development (Emerging Tec	hnologies)	\$612,878	\$612,878	\$612,878	\$1,838,633
EM&V Implementation		\$612,878	\$612,878	\$612,878	\$1,838,633
Portfolio Adminstration (Including Planr	\$900,000	\$900,000	\$900,000	\$2,700,000	
Portfolio Marketing & Education		\$675,000	\$675,000	\$675,000	\$2,025,000
Studies (ie Potential Studies) (External o	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	PGL Subtotal			\$20,429,250	\$61,287,750
DCEO Allocation @	\$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

NORT	NORTH SHORE GAS								
Savings	GPY7	GPY8	GPY9	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)	1,127,324	1,127,324	1,127,324	3,381,972					
Utility Proposed Modified Savings Goal (Percent)	0.38%	0.38%	0.38%	n/a					

	NORT	H SHORE GAS			
Budget Cap	\$3,958,000	GPY7	GPY8	GPY9	Total
Utility Allocation @	75%	\$2,968,500	\$2,968,500	\$2,968,500	\$8,905,500
Research & Development (Emerging Te	chnologies)	\$89,055	\$89,055	\$89,055	\$267,165
EM&V Implementation		\$89,055	\$89,055	\$89,055	\$267,165
Portfolio Adminstration (Including Plar	nning)	\$300,000	\$300,000	\$300,000	\$900,000
Portfolio Marketing & Education		\$200,000	\$200,000	\$200,000	\$600,000
Studies (ie Potential Studies) (External	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 @	DCEO Allocation @ 25%			\$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 Prop	osed			
	GPY.	7	GP	GPY9		Total		
	Est \$	% of <i>Total</i>	Est \$	% of <i>Total</i>	Est \$	% of <i>Total</i>	Est \$	% of Total
Low-Moderate Income Program	\$3,348,495	18.99%	\$3,348,495	19.26%	\$3,348,495	18.99%	\$10,045,485	19.08%
Residential Program	\$8,280,000	46.97%	\$8,130,000	46.76%	\$8,280,000	46.97%	\$24,690,000	46.90%
Business Program	\$6,000,000	34.04%	\$5,910,000	33.99%	\$6,000,000	34.04%	\$17,910,000	34.02%
Total	\$17,628,495	100.00%	\$17,388,495	100.00%	\$17,628,495	100.00%	\$52,645,485	100.00%
Low-Moderate Income % of Resident	i al Budget							
(without DCEO allocation)		28.80%	% 29.17%		28.80%		28.92%	
Low-Moderate Income % of Resident	<u>ial</u> Budget (incl							
60% of DCEO allocation)		47.31%		47.77%		47.31%		47.46%





Program Level Budget – North Shore Gas

		NORTH SHORE GAS Budget Proposed							
	GP	GPY7		GPY8		GPY9		al	
	Est \$	% of <i>Total</i>	Est \$	% of <i>Total</i>	Est \$	% of Total	Est \$	% of <i>Total</i>	
Low-Moderate Income Program	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	
Residential Program	\$1,290,000	56.32%	\$1,110,000	54.14%	\$1,290,000	56.32%	\$3,690,000	55.65%	
Business Program	\$1,000,390	43.68%	\$940,390	45.86%	\$1,000,390	43.68%	\$2,941,170	44.35%	
Total	\$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		Resid	ential		Business
Market Offerings	Low-Moc	l Income	Non Low-M	od Income	C&I
Market Offerings	Single Family	Multi-Family	Single Family	Multi-family	CAI
Outreach & Education					
- Behavior	x	x	x	x	
- EEE	x	x	х	x	
Assessments					
- High level (w/DI if appro)	x	x	x	x	x
- In Depth		x		x	
- Gas Optimization		x		x	x
- RCx					x
- Engineering Studies					х
Rebates/Grants					
- Standard (Down & Up)			х	x	x
- Partner Trade Ally			х	x	x
- Local Orgn Partner	x	x			
- Custom				x	x





Business Program – Peoples Gas

			PGL PY7										
		First Year Cost Breakdown Savings - First Year Savings - Lifet							ifetime				
C/J	TRC	Total Budget	Cust Inc	3rd Pty Inc	Non-Inc	% of Total	Therm	% of Total	\$/Therm	Therm	\$/Therm		
J	1.06	\$6,000,000	\$2,060,272	\$1,332,283	\$2,607,446	34%	3,169,786	41%	\$1.89	37,953,574	\$0.16		

Programs	Busine	ess		
Paths	Existing	NC		
Assessments				
- High level (w/DI if appro)	х	x		
- Gas Optimization	х	x		
- RCx	х			
- Engineering Studies	x			
Rebates/Grants				
- Standard (Down & Up)	х	х		
- Partner Trade Ally	х			
- Custom	х	х		



- DI for small businesses, private education and health care
- Gas Optimization/Retro-Commissioning
- Standard, PTA, and Custom rebates
- No major changes from current triennial
- Added laminars as a direct install measure for health care facilities
- Looking to take food service rebates upstream





Business Program – North Shore Gas

			NSG PY7										
		First Year Cost Breakdown Savings - First Year Savings - Lifetim								Lifetime			
C/J	TRC	Total Budget	Cust Inc	3rd Pty Inc	Non-Inc	% of Total	Therm	% of Total	\$/Therm	Therm	\$/Therm		
J	1.09	\$1,000,390	\$267,562	\$240,646	\$492,182	44%	454,357	40%	\$2.20	4,073,463	\$0.25		

Programs	Business			
Paths	Existing	NC		
Assessments				
- High level (w/DI if appro)	x			
- Gas Optimization	x			
- RCx	х			
- Engineering Studies	x			
Rebates/Grants				
- Standard (Down & Up)	x	х		
- Partner Trade Ally	x			
- Custom	x x			



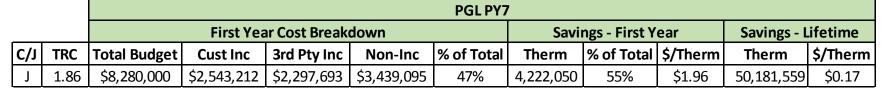
- DI for small businesses, private education and health care
- Gas Optimization/Retro-Commissioning
- Standard, PTA, and Custom rebates
- No major changes from current triennial
- Added laminars as a direct install measure for health care facilities
- Looking to take food service rebates upstream





Residential Program - <u>Non</u>-Low/Mod Income - PGL

Programs	Residential				
Markat Offarings	Non-	_ow-N	lod Income		
Market Offerings	SF		MF		
Paths	Existing	NC	Existing	NC	
Outreach & Education		-		_	
- Behavior	x		x		
- EEE	x		x		
Assessments					
- High level (w/DI if appro)	x		x		
- In Depth			x		
- Gas Optimization			x		
Rebates/Grants		_			
- Standard (Down & Up)	x	x	x	x	
- Partner Trade Ally	x	x			
- Custom			x	x	



- Outreach & Education
- Assessment/DI
- Standard and PTA rebates
- No major program content changes from current triennial
- Reduced behavior change; increased Elementary Energy Education
- Looking to add upstream water heater





Residential Program - <u>Non</u>-Low/Mod Income - NSG

Programs	Residential						
Market Offerings	Non-Low-Mod Income						
Market Offerings	SF		MF				
Paths	Existing	NC	Existing	NC			
Outreach & Education		-					
- Behavior	х		x				
- EEE	x		x				
Assessments							
- High level (w/DI if appro)	x		x				
- In Depth			x				
- Gas Optimization			x				
Rebates/Grants							
- Standard (Down & Up)	x	х	x	х			
- Partner Trade Ally	x		x				
- Custom			x	x			

		NSG PY7									
		First Year Cost Breakdown					Savings - First Year			Savings - Lifetime	
C/J	TRC	Total Budget	Cust Inc	3rd Pty Inc	Non-Inc	% of Total	Therm	% of Total	\$/Therm	Therm	\$/Therm
J	1.81	\$1,290,000	\$272,796	\$638,366	\$378,838	56%	672,967	60%	\$1.92	4,548,501	\$0.28

- Outreach & Education
- Assessment/DI
- Standard and PTA rebates
- No major program content changes from current triennial
- Reduced behavior change; increased Elementary Energy Education
- Looking to add upstream water heater





Guiding Principles: Low-Moderate Income Program Design

- Focus on deeper retrofits
- Comprehensiveness and quality over quantity
- Use existing infrastructure whenever possible





Low-Moderate Income Programs – Peoples Gas

Programs	Residential					
Market Offerings	Low-Mod Income					
Market Offerings	SF		MF			
Paths	Existing	NC	Existing	NC		
Outreach & Education				_		
- Behavior	x		x			
- EEE	x		x			
Assessments		-				
- High level (w/DI if appro)	x		x			
- In Depth			x			
- Gas Optimization			x			
Rebates/Grants (R/G)						
- Local Orgn Partner	G	R	G	R		

			PGL PY7									
				First Year Cost Breakdown				Savings - First Year			Savings - Lifetime	
	C/J	TRC	Total Budget	Cust Inc	3rd Pty Inc	Non-Inc	% of Total	Therm	% of Total	\$/Therm	Therm	\$/Therm
Outreach & Education			\$141,000	\$0	\$131,000	\$10,000	4%	118,006	35%	\$1.19	133,846	\$1.05
Single Family (SF) Existing			\$881,635	\$0	\$831,635	\$50,000	26%	52,364	15%	\$16.84	1,236,542	\$0.71
Single Family (SF) NC			\$143,100	\$77,100	\$60,000	\$6,000	4%	29,099	9%	\$4.92	479,423	\$0.30
Multi-family (MF) Existing			\$1,982,760	\$1,440,000	\$350,000	\$192,760	59%	136,800	40%	\$14.49	2,052,000	\$0.97
Multi-family (MF) NC			\$200,000	\$20,000	\$175,000	\$5,000	6%	2,565	1%	\$77.97	38,475	\$5.20
Total	J	1.64	\$3,348,495	\$1,537,100	\$1,547,635	\$263,760	19%	338,835	4%	\$9.88	3,940,286	\$0.85

- Outreach & Education (same as non-Low-Mod)
- Assessment/DI
- Reduced behavior change; increased Elementary Energy Education
- Low-Mod Income program initially in PGL only, can incorporate in NSG later.





Low-Moderate Income: Single Family Existing Homes

- Potential Partner Historic Chicago Bungalow Association (Discussions to follow w/ComEd)
- Comprehensive assessments with direct install; deeper retrofits to include insulation and air sealing, programmable setback thermostat; heating system clean and tune; emergency replacement where needed; health and safety measures; post-installation inspections

Income Level	% of Part	Co-Pay %	Max Co-Pay
80% AMI or less	50%	0%	\$0
81% - 85% AMI	25%	5%	\$300
86% - 90% AMI	15%	7.5%	\$450
91% - 100% AMI	10%	10%	\$600

Key estimated metrics based on 100 participants				
Total Budget	\$881,635			
Percentage Incentive/3 rd Party Incentive	94%			
Energy Savings – First Year	52,364			
Energy Savings - Lifetime	1,236,542			





Low-Moderate Income: Multi-Family Existing Buildings

- Potential Partner Community Investment Corporation (CIC) and Elevate Energy (discussions to follow with ComEd)
- Comprehensive assessments with direct install; deeper retrofits to include insulation and air sealing, programmable setback thermostat; heating system and water heating measures; controls; steam traps; post-installation inspections

Key estimated metrics					
Total Budget	\$1,982,760				
Percentage Incentive/3 rd Party Incentive	90%				
Energy Savings – First Year	136,800				
Energy Savings - Lifetime	2,052,000				





Low-Moderate Income: Single Family & Multi-Family – New Const.

- Potential Partners Any housing development authority or similar organization
- Influence energy efficiency at the time of construction
 - Assumption 1 code will be met
 - Assumption 2 most new construction will need federal or state funding
- Enhanced rebates (1.5x or 2x) to go above code for equipment efficiencies
- If funding not used by end of a specific period, use budget for existing premises





Summary and Feedback

- Structure of the Portfolio consistent with Phase II
- Key Changes
 - Added low-moderate income program
 - Reduced behavior change
 - Added budget for emerging technology
- Feedback



