

Fourth Quarter 2011 Earnings

February 29, 2012

GenOn.

Forward-Looking Statements

This presentation contains statements, estimates or projections that are "forward-looking statements" as defined under U.S. federal securities laws. In some cases, one can identify forward-looking statements by words such as "will," "expect," "estimate," "think," "forecast," "guidance," "outlook," "plan," "lead," "project" or comparable words. Forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from our historical experience and our present expectations or projections.

These risks include, but are not limited to:

- (i) legislative and regulatory initiatives or changes affecting the electric industry;
- (ii) changes in, or changes in the application of, environmental or other laws and regulations;
- (iii) failure of our generating facilities to perform as expected, including outages for unscheduled maintenance or repair;
- (iv) changes in market conditions or the entry of additional competition in our markets; and
- (v) those factors contained in our periodic reports filed with the SEC, including in the "Risk Factors" section of our most recent Annual Report on Form 10-K.

The forward-looking information in this document is given as of the date of the particular statement and we assume no duty to update this information. Our filings and other important information are also available on the Investor Relations page of our web site at www.genon.com.

Non-GAAP Financial Information

The following presentation includes "non-GAAP financial measures" as defined in Regulation G under the Securities Exchange Act of 1934, as amended. Reconciliations of these measures to the most directly comparable GAAP measures are contained herein. This presentation is available in the Investor Relations section of our web site at www.genon.com. Certain factors that could affect GAAP financial measures are not accessible on a forward-looking basis, but could be material to future reported earnings and cash flow.



Edward R. Muller Chairman and CEO

Fourth Quarter 2011 Earnings February 29, 2012

Updates



- Achieved annual merger savings of \$160 million
- Marsh Landing on schedule and on budget
- Cross-State Air Pollution Rule (CSAPR) stayed
- Mercury and Air Toxics Standards (MATS) compliance required in April 2015
- Expect to deactivate 3,140 MWs because forecasted returns on investments necessary to comply with environmental regulations are insufficient
- Expect investments of ~\$586 \$726 million for major environmental controls over the next 10 years

We expect higher earnings from price increases resulting from industry retirements will more than offset reduced earnings from GenOn unit deactivations (Forward curves as of January 24, 2012)



(\$ millions)	201	2E	201	13E
	Current guidance	Previous guidance	Current guidance	Previous guidance
Adjusted EBITDA	\$ 440	\$ 496	\$ 665	\$ 761

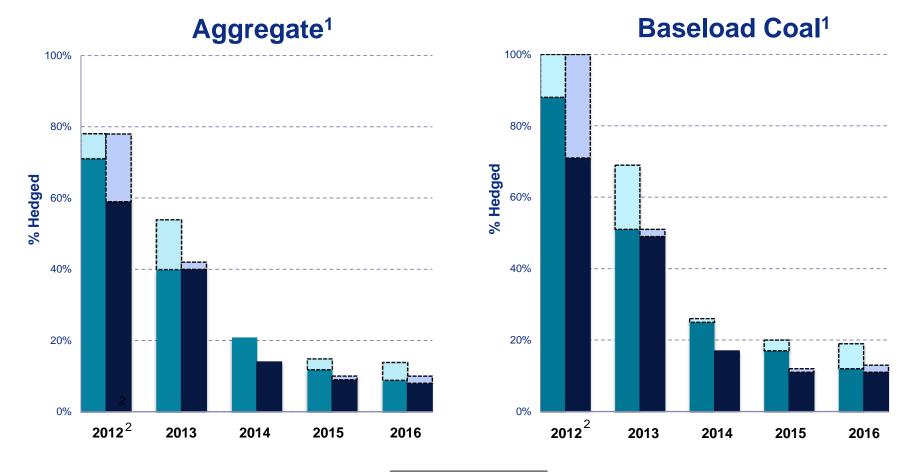
Change in 2012 & 2013 guidance

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- Lower energy margins
- - Higher realized value of hedges
 - Reduced operating and other expenses

Hedge Levels

Based on expected generation as of January 24, 2012





- 1. Shaded boxes represent net additions since October 31, 2011.
- 2. 2012 represents balance of year (February December).
- 3. Power hedges include hedges with both power and natural gas.



Environmental Regulations Impact



- Environmental rules require significant capital investments
- We will invest only if expected return exceeds cost of capital
- As a result of industry retirements, we expect market prices will rise sufficiently from current prices to justify some investments:
 - Expect investments of ~\$586 \$726 million for major environmental controls over the next 10 years
 - If market prices improve even more, additional investments could become economic

Expected Changes in Generation Fleet GenOn.

Plant	Location	MWs	Expected Timing	Driver
		U	nits to be deactiv	ated
Elrama ¹	PA	460	June 2012	MATS and market conditions
Niles ¹	ОН	217	June 2012	MATS and market conditions
Portland	PA	401	January 2015	Cumulative effect of various environmental regulations
Avon Lake	ОН	732	April 2015	MATS
New Castle	PA	330	April 2015	MATS
Shawville	PA	597	April 2015	Cumulative effect of various environmental regulations
Titus	PA	243	April 2015	MATS
Glen Gardner	NJ	160	May 2015	NJ High Energy Demand Day (HEDD) regulations

 Expect annualized O&M reduction of ~\$80 million from 2013 level

Subtotal

1.

3,140

Other fleet reductions ¹										
Indian River	FL	586	January 2012 Sold for \$11.5 million							
Vandolah	FL	630	May 2012	Tolling agreement expires						
Potomac River	VA	482	October 2012	Retiring based on agreement with the City of Alexandria, VA						
Contra Costa	CA	674	May 2013	Expected to retire upon expiration of PPA						
Subtotal		2,372								
Total		5,512								

Included in the adjusted EBITDA guidance.

 ^{~17%} of 2013 expected generation

Expected Environmental Investments

 Expect investments of ~\$586 - \$726 million in major controls over the next 10 years to meet current and anticipated environmental rules

Plant	Location	Control Technology	Expected Timing	Driver	Investments (\$ millions)
Kendall	MA	Backpressure steam turbine + air-cooled condenser	2012 - 2014	Water regulations	\$32 - \$35
Gilbert Sayreville Werner	NJ	SCR	2012 - 2015	New Jersey HEDD regulations	\$129 - \$151
Conemaugh	PA	Scrubber upgrade + SCR	2012 - 2015	MATS	\$93 - \$102¹
Mandalay Ormond Beach	CA	Variable speed pumps	2018 - 2019	Water regulations	\$17 - \$20
Chalk Point - Unit 2 Dickerson	MD	SCR	2018 - 2021	More stringent PM _{2.5} and Ozone NAAQS	\$315 - \$418

1. Based on GenOn leased percentage.

GenOn



J. William Holden Executive Vice President and CFO

Fourth Quarter 2011 Earnings

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Financial Results



		4Q				YTD							
(\$ millions)		2011		2010 forma ¹	١	/ariance			2011		2010 o forma ¹		Variance
Energy ²	\$	28	\$	108	\$	(80)	ę	5	532	\$	816	\$	(284)
Contracted and capacity		181		255		(74)			910		1,106		(196)
Realized value of hedges		133		109		24			335		309		26
Adjusted gross margin ²	\$	342	\$	472	\$	(130)	9	5	1,777	\$	2,231	\$	(454)
Adjusted operating and other expenses		(285)		(322)		37		((1,155)		(1,312)		157
Adjusted EBITDA	\$	57	\$	150	\$	(93)	Ş	5	622	\$	919	\$	(297)

<u>4Q & YTD</u>

- Energy reduced generation volumes because of contracting dark spreads primarily in Eastern PJM
- Contracted and capacity lower PJM capacity prices
- Adjusted operating and other expenses merger cost savings and reduced planned outages and projects
- 1. Results of operations have been retroactively amended for the revisions to the provisional allocation of the merger purchase price at December 3, 2010.
- 2. Excludes unrealized gains and losses as well as lower of cost or market inventory adjustments, net.

Debt and Liquidity



(\$ millions)	Decem	oer 31, 2011
Amortizing term loan due 2017	\$	691
Senior unsecured notes due 2014 - 2020		2,525
GenOn Americas Generation senior notes due 2021 - 2031		850
GenOn Marsh Landing project finance due 2017 and 2023		107
Capital leases due 2011 - 2015		19
Total debt ¹	\$	4,192
Cash and cash equivalents	\$	1,668
Less: reserved		(13)
Available cash and cash equivalents	\$	1,655
Revolver and letters of credit available ²		523
Total available liquidity ²	\$	2,178
Funds on deposit:		
Cash collateral for energy trading and marketing	\$	185
Cash collateral for other operating activities ³		39
Cash collateral for surety bonds		34
GenOn Mid-Atlantic restricted cash ⁴		166
Marsh Landing development project cash collateral		131
Environmental compliance deposits		34
Other		16
Total funds on deposit	\$	605

- 1. Excludes unamortized debt discounts and adjustments to fair value of debt of \$(60) million.
- 2. Excludes availability under GenOn Marsh Landing credit facility.
- 3. Includes \$32 million related to the Potomac River escrow.
- 4. Cash reserved for liens related to contract litigation on scrubbers built to comply with the Maryland Healthy Air Act.

Guidance

(Forward curves as of January 24, 2012)



(\$ millions)	2	012E	2013E		
Adjusted gross margin ¹	\$	1,567	\$	1,768	
Adjusted operating and other expenses ²		(1,127)		(1,103)	
Adjusted EBITDA	\$	440	\$	665	
Cash interest, net ³		(353)		(361)	
Income taxes paid, net		-		(2	
Working capital and other changes		(188)		(23	
Adjusted net cash provided by (used in) operating activities	\$	(101)	\$	279	
Capital expenditures to be paid from cash ⁴		(212)		(276	
Adjusted free cash flow (deficit)	\$	(313)	\$	3	
Marsh Landing working capital and equity contributions		(45)		(71	
Payments of Merger-related costs		24			
Adjusted free cash flow deficit excluding MD HAA capital expenditures, Marsh Landing and merger-related costs	\$	(334)	\$	(65	
Hedged adjusted gross margin	\$	1,317	\$	1,413	
Adjusted operating and other expenses ²		(1,127)		(1,103	
Hedged adjusted EBITDA	\$	190	\$	31(

1. Excludes (a) unrealized gains/losses; (b) lower of cost or market inventory adjustments, net; and (c) capacity penalties for deactivated facilities.

2. Includes \$35 million and \$96 million of annual operating lease expense for REMA and GenOn Mid-Atlantic, respectively.

3. Excludes capitalized interest from Marsh Landing.

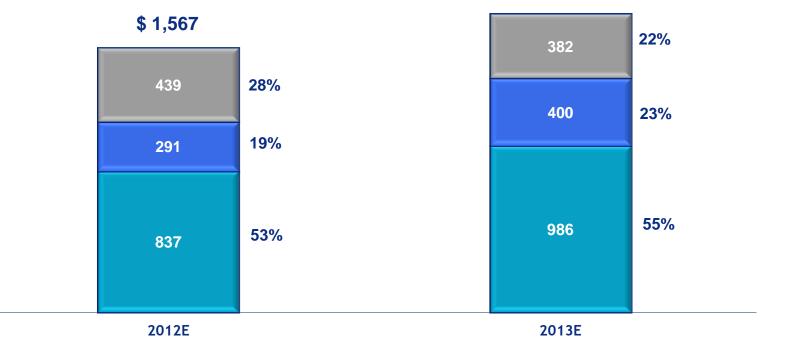
4. Excludes (a) those capitalized expenditures for Marsh Landing, which will be funded by project financings and (b) capitalized expenditures for Maryland Healthy Air Act, which 13 will be paid from funds on deposit.

Adjusted Gross Margin Comparison



(Forward curves as of January 24, 2012)

(\$ millions)



\$ 1,768



Realized value of hedges

Energy

Contracted & capacity

Guidance Comparison – Adjusted EBITDA GenOn.

(\$ millions)

	2012E	2013E
Previous guidance ¹	\$ 496	\$ 761
Contracted and capacity	(2)	-
Energy		
Market price and generation changes	(271)	(277)
Energy Marketing	(17)	(3)
Realized value of hedges	213	140
Operating and other expenses	21	44
Current guidance ²	\$ 440	\$ 665

^{1.} Previous guidance based on forward curves as of October 6, 2011.

^{2.} Current guidance based on forward curves as of January 24, 2012.

(Forward curves as of January 24, 2012)



Impact on Adjusted EBITDA (\$ millions)				
_	201	2E ¹	201	3E ¹
Adjusted EBITDA	\$	440	\$	665
Sensitivities				
Natural gas ² (\$1/mmBtu change in average NYMEX price)	\$	63	\$	137
NYMEX ³ \$/mmBtu	\$	2.95	\$	3.67
Power 4 (500 Btu/kWh heat rate change)	\$	20	\$	50
Market Implied Heat Rate (MIHR) ³ , 7X24, Btu/kWh:				
PEPCO		11,781		10,231
PJM W		10,773		9,359
AEP - Dayton Hub		10,319		9,348

- 1. Guidance does not include effects of CSAPR.
- 2. Assumes MIHR and generation volumes are held constant.
- 3. 2012 represents February December.
- 4. Assumes fuel price and generation volumes are held constant.

Capital Expenditures



(\$ millions)	2012E	2013E
Maintenance	\$ 116	\$ 128
Environmental		
Maryland Healthy Air Act	83	-
Other ¹	64	120
Construction		
Marsh Landing	342	69
Other	13	-
Other	19	10
Total Capital Expenditures ²	\$ 637	\$ 327
Funds on deposit for MD Healthy Air Act	(83)	-
Project financings for Marsh Landing	(342)	(51)
Capital expenditures to be paid from cash	\$ 212	\$ 276

Expected normalized maintenance capital expenditures ~\$115 million/year decreasing to ~\$110 million/year after deactivations

- 1. \$38 million and \$89 million related to MATS, HEDD and water regulations in 2012 and 2013, respectively.
- 2. Includes capitalized interest only related to Marsh Landing.

Summary



- Achieved annual merger savings of \$160 million
- Marsh Landing on schedule and on budget
- GenOn will invest only if expected return exceeds cost of capital
- Expect to deactivate 3,140 MWs because forecasted returns on investments necessary to comply with environmental regulations are insufficient
- Expect investments of ~\$586 \$726 million for major environmental controls over the next 10 years

We expect higher earnings from price increases resulting from industry retirements will more than offset reduced earnings from GenOn unit deactivations





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Guidance Assumptions



Forward curves as of January 24, 2012		l2E ¹ - December)	2013E ¹			
	mmMWh ²	Market Price	mmMWh	Market Price		
Eastern PJM				Market Theo		
Delivered gas price (\$/mmbtu)		\$ 3.21		\$ 4.00		
Delivered coal price (\$/ton)		\$ 87.02		\$ 95.71		
Pepco (\$/MWh)						
On Peak	6.16	\$ 44.74	6.38	\$ 48.10		
Off Peak	4.86	\$ 31.30	5.43	\$ 34.16		
Total Eastern PJM	11.02		11.81			
% hedged	97	7%	83	%		
Western PJM/MISO						
Delivered gas price (\$/mmbtu)		\$ 3.21		\$ 4.00		
Delivered coal price (\$/ton) ³		\$ 78.69		\$ 84.07		
AD Hub (\$/MWh)						
On Peak	4.45	\$ 35.99	5.30	\$ 39.34		
Off Peak	3.96	\$ 27.10	5.10	\$ 29.54		
PJM W (\$/MWh)						
On Peak	3.19	\$ 40.38	3.92	\$ 43.60		
Off Peak	2.20	\$ 29.10	2.93	\$ 31.60		
Total Western PJM/MISO	13.81		17.24			
% hedged	70%	6	39	%		
California	0.74		0.22			
Other	1.43		1.22			
Total expected generation	27.00		30.49			
% hedged	78%	6	54	%		
Baseload coal expected generation	19.75		24.03			
% hedged	1009	%	69	%		
Power hedged vs market⁴		+\$21.75/MWh		+\$24.19/MW		
Fuel hedged vs market ⁵		-3.84/MWh		-1.16/MW		
Total impact of hedged vs market ^{4,5}		+17.91/MWh		+23.03/MW		

1. Guidance does not include effects of CSAPR.

2. Year to date generation totaled 2.2 mmMWh through January 31, 2012.

3. Excludes Seward.

4. Power hedges include hedges with both power and natural gas.

5. Includes market value of coal, oil and gas hedges with hedge value allocated per MWh of power hedged.

Hedge Details



Forward curves as of January 24, 2012

\$ millions	Balan 201		201	3E	20	14E	201	5E	201	I6E
Power ²	\$	459	\$	401	\$	299	\$	76	\$	39
Fuel		(80)		(19)		1		4		2
Realized value of hedges	\$	379	\$	382	\$	300	\$	80	\$	41

	Balance of 2012E ¹	2013E	2014E	2015E	2016E
Power ² : mmMWh equivalents sold	21.2	16.6	6.8	4.4	3.7
Coal ³ : Average contract price (\$/mmBtu) hedged (before delivery)	\$ 2.87	\$ 2.77	\$ 2.52	\$ 2.52	\$ 2.52

1. 2012 represents February – December.

2. Power hedges include hedges for both power and natural gas.

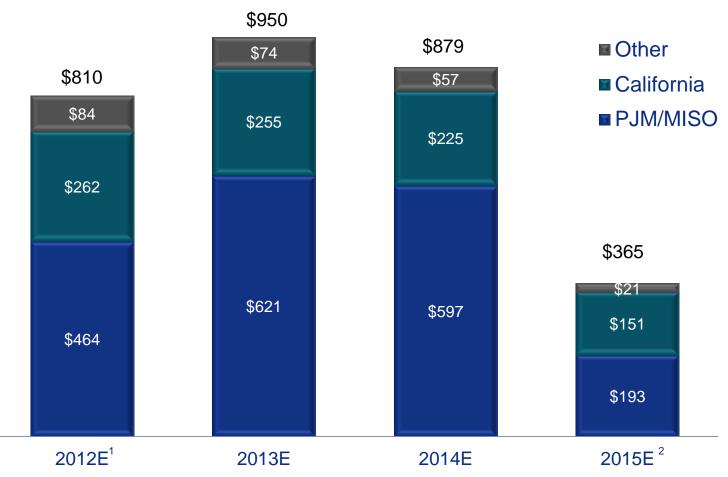
3. Excludes Seward.

Fixed Contracted and Capacity

GenOn.

(\$ millions)

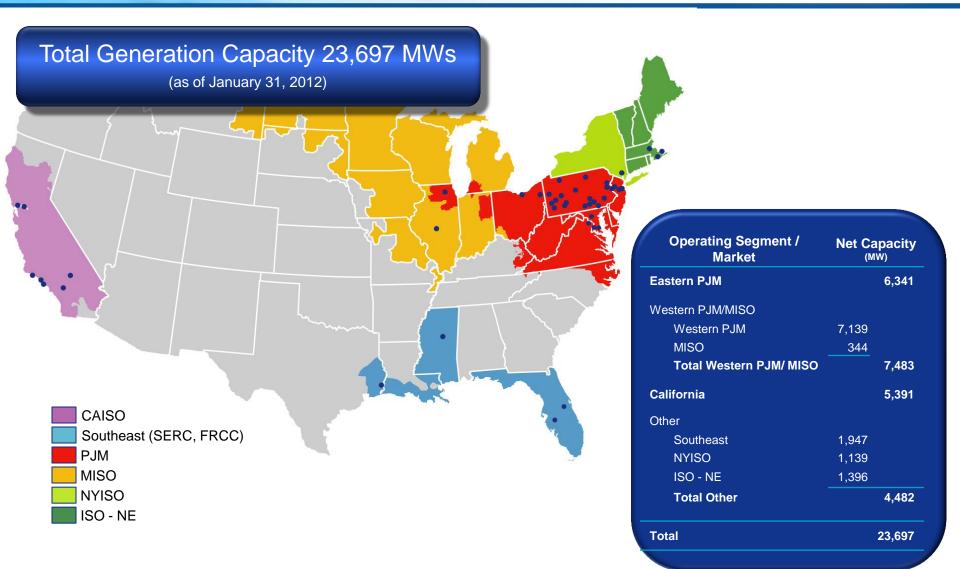
As of January 24, 2012



2. Includes cleared capacity auction results for PJM and New England through May 2015.

Generation Portfolio





Generation



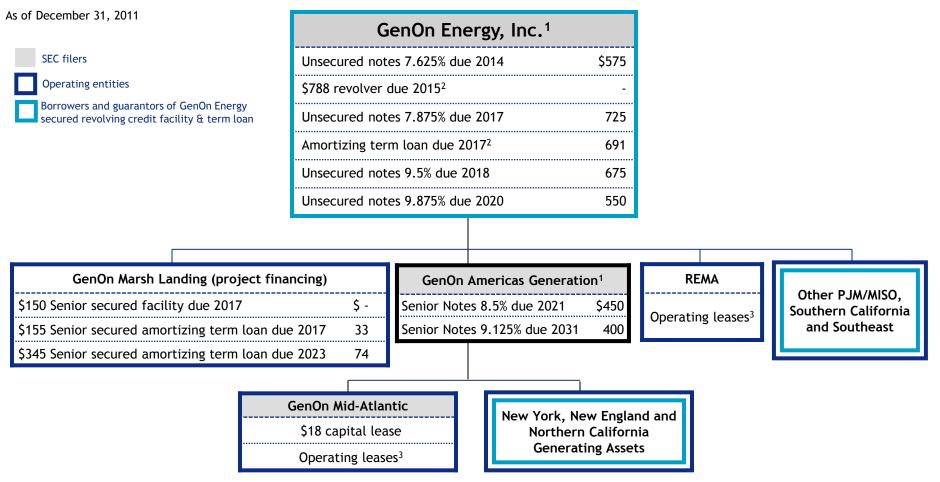
		Net MWh G	enerated	
	20 ⁻	11	2010 (pro	o forma)
	4Q	Full Year	4Q	Full Year
Baseload ¹				
Western PJM/MISO	4,054,774	20,121,545	4,416,706	21,583,99
Eastern PJM	2,314,582	11,461,924	3,177,071	14,271,37
California	-	-	-	
Other	(2,511)	1,533,411	364,275	1,875,20
Total Baseload	6,366,845	33,116,880	7,958,052	37,730,57
Intermediate ¹				
Western PJM/MISO	(1,345)	(21)	(1,779)	95
Eastern PJM	(16,446)	727,172	53,426	1,126,37
California	52,282	382,118	136,056	944,09
Other	(10,878)	237,159	11,148	635,63
Total Intermediate	23,613	1,346,428	198,851	2,707,05
Peaking ¹				
Western PJM/MISO	1,305	81,811	799	49,71
Eastern PJM	338	114,677	30,378	232,05
California	147	2,467	1,022	2,90
Other	20,263	334,272	55,936	293,90
Total Peaking	22,053	533,227	88,135	578,57
Total GenOn	6,412,511	34,996,535	8,245,038	41,016,20

1. Classification based on design capability.

Debt Structure



(\$ millions)



- 1. Excludes \$(60) million unamortized debt discounts and adjustments to fair value of debt and \$1 million corporate capital lease.
- 2. GenOn Americas (a direct subsidiary of GenOn Energy) and GenOn Energy are co-borrowers of the credit facility debt.
- 3. The present values of lease payments for GenOn Mid-Atlantic and REMA operating leases are \$881 million and \$466 million, respectively.

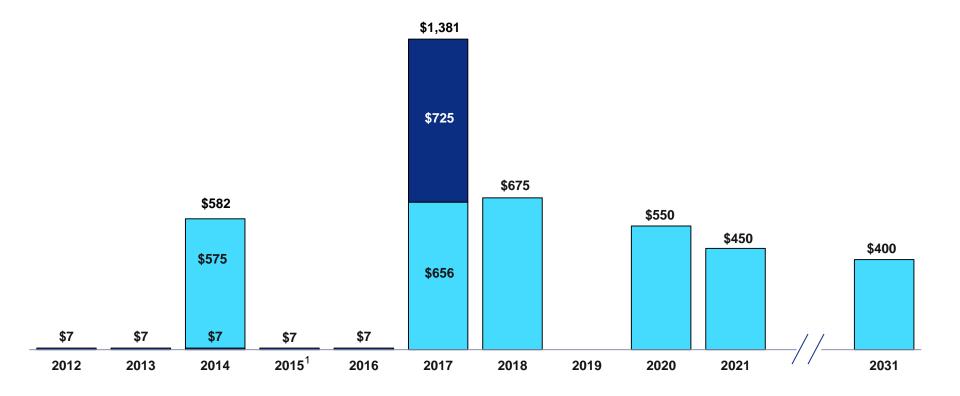
Debt Maturity Schedule



(\$ millions)

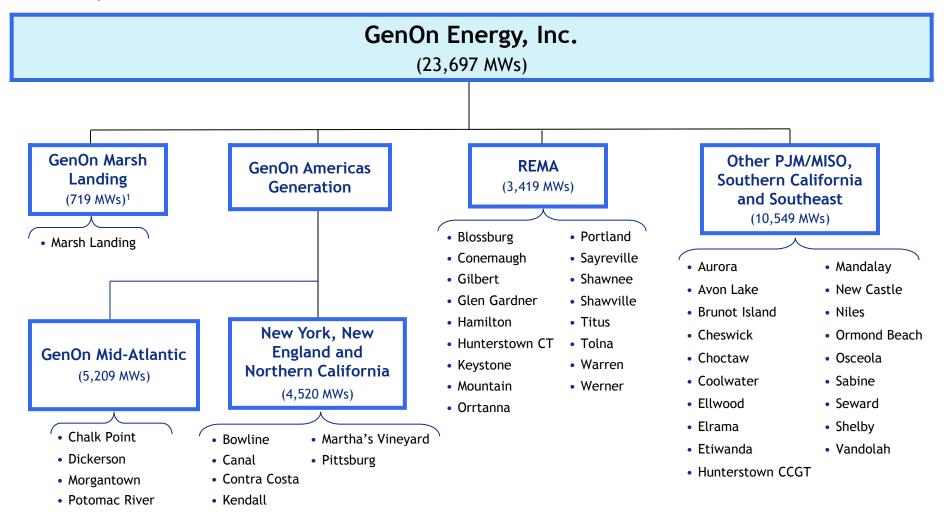
As of December 31, 2011

Excludes GenOn Marsh Landing non-recourse project financing and capital leases.



Organizational Structure

As of January 31, 2012



Gen()m

Federal NOL



- GenOn's federal NOLs at December 31, 2011 are approximately \$2.6 billion
 - Unlimited NOLs
 - \$1.7 billion of GenOn and former RRI NOLs available to offset future taxable income
 - Limited NOLs
 - \$0.6 billion former Mirant NOLs, and
 - \$0.3 billion of GenOn's post merger NOLs that arise from former Mirant premerger built in losses
 - Limited NOLs are available to use against \$54 million of taxable income annually beginning December 2015 (5 years from the merger date)
- Expect to pay, at most, federal Alternative Minimum Tax and some state tax on taxable income over the next 5 years

Based on information contained in a shareholder's recent filing made pursuant to SEC Regulation 13G and subsequent inquiries made on the basis of such information, it is possible RRI Energy may have experienced an ownership change as of the merger date. As of this date we have not completed verification of the change and we continue to seek "actual knowledge" with respect to certain facts pertaining to the possible ownership change.

Reg G: 2010 Pro Forma



4Q 2010 (\$ millions)	Reported ¹	RRI Energy	Pro Forma Adjustments ¹	Pro Forma ¹
Net Loss	\$ (631)	\$ (63)	\$ (202)	\$(896)
Net income from discontinued operations	-	(2)	-	(2)
Unrealized losses	221	43	-	264
Impairment losses	565	-	-	565
Gain on bargain purchase, as retroactively amended	(335)	-	335	-
Potomac River settlement obligation	32	-	-	32
Kern River settlement	-	(40)	-	(40)
Merger-related costs	101	6	(107)	-
Lower of cost or market inventory adjustments, net	(3)	-	-	(3)
Other, net	20	-	(19)	1
Adjusted loss from continuing operations	\$ (30)	\$ (56)	\$ 7	\$ (79)
Income taxes, interest, depreciation and amortization	167	59	3	229
Adjusted EBITDA	\$ 137	\$ 3	\$ 10	\$ 150

YTD 2010 (\$ millions)	Reported RRI Energy		Pro Forma Adjustments ¹	Pro Forma ¹
Net Loss	\$ (233)	\$ (489)	\$ (18)	\$ (740)
Net income from discontinued operations	-	(6)	-	(6)
Unrealized (gains) losses	42	(69)	-	(27)
Impairment losses	565	361	-	926
Gain on bargain purchase , as retroactively amended	(335)	-	335	-
Potomac River settlement obligation	32	-	-	32
Kern River settlement	-	(40)	-	(40)
Merger-related costs	114	25	(139)	-
Lower of cost or market inventory adjustments, net	(4)	(18)	-	(22)
Western states litigation and similar settlements	-	17	-	17
Postretirement benefits curtailment gain	(37)	-	-	(37)
Other, net	19	-	(19)	-
Adjusted income (loss) from continuing operations	\$ 163	\$ (219)	\$ 159	\$ 103
Income taxes, interest, depreciation and amortization	475	446	(105)	816
Adjusted EBITDA	\$ 638	\$ 227	\$ 54	\$ 919

1. Results of operations have been retroactively amended for revisions to the provisional allocation of the merger purchase price at December 3, 2010.

Reg G: Adjusted Loss from Continuing Operations to Adjusted EBITDA and Adjusted Gross Margin



(\$ millions)	20)11	204251	201251	
	4Q	Full Year	2012E ¹	2013E ¹	
Net Income (Loss)	\$ 100	\$ (189)	\$ (819)	\$(513)	
Unrealized (gains) losses	(283)	(224)	508	399	
Merger-related costs	11	72	8	3	
Impairment losses	-	133	-		
Loss on early extinguishment of debt	-	23	-		
Lower of cost or market inventory adjustments, net	10	(3)	-		
Major litigation costs, net of recoveries	3	15	5		
Reversal of Montgomery County carbon levy assessment for prior year	-	(8)	-		
Reversal of Potomac River settlement obligation	-	-	(32)		
Large scale remediation and settlement costs	29	59	-		
Costs to deactivate generating facilities ²	-	-	31	Ę	
Gain on sales of assets	(1)	(6)	(6)		
Other, net	-	(4)	5		
Adjusted loss from continuing operations	\$ (131)	\$ (132)	\$ (300)	\$ (106)	
Benefit for income taxes	(4)	-	-		
Interest expense, net	89	379	366	376	
Depreciation and amortization	103	375	374	395	
Adjusted EBITDA	\$ 57	\$ 622	\$ 440	\$ 665	
Adjusted operating and other expenses	285	1,155	1,127	1,103	
Adjusted Gross Margin	\$ 342	\$ 1,777	\$ 1,567	\$1,768	
Unrealized gains (losses)	283	224	(508)	(399)	
Lower of cost or market inventory adjustments, net	(10)	3	-		
Capacity penalties for deactivated facilities	-	-	(5)		
Gross Margin	\$ 615	\$ 2,004	\$ 1,054	\$ 1,369	

1. Guidance does not include effects of CSAPR.

2. 2012E includes \$5 million resulting from capacity penalties.

Reg G: Operations and maintenance to adjusted operating and other expenses



(\$ millions)	2010 Pr	o Forma	20	11		
	4Q	Full Year	4Q	Full Year	2012E ¹	2013E ¹
Operations and maintenance	\$ 364	\$ 1,325	\$ 330	\$ 1,293	\$ 1,143	\$ 1,116
Gain on sales of assets, net	-	(6)	(1)	(6)	(6)	-
Impairment losses	565	926	-	133	-	-
Western states litigation and similar settlements	-	17	-	-	-	
Other, net	(9)	(12)	(2)	19	(4)	(5)
Operating and other expenses	\$ 920	\$ 2,250	\$ 327	\$ 1,439	\$ 1,133	\$ 1,111
Impairment losses	(565)	(926)	-	(133)	-	
Merger-related costs	-	-	(11)	(72)	(8)	(3)
Costs to deactivate generating facilities	-	-	-	-	(26)	(5)
Gain on sales of assets	-	-	1	6	6	
Potomac River settlement obligation & reversal	(32)	(32)	-	-	32	
Major litigation costs, net of recoveries	-	-	(3)	(15)	(5)	
Reversal of Montgomery County carbon levy assessment for prior year	-	-	-	8	-	
Large scale remediation and settlement costs	-	-	(29)	(59)	-	
Western states litigation and similar settlements	-	(17)	-	-	-	
Postretirement benefits curtailment gain	-	37	-	-	-	
Adjustments to asset retirement obligations	-	-	3	9	-	
Other, net	(1)	-	(3)	(28)	(5)	
Adjusted operating and other expenses	\$ 322	\$ 1,312	\$ 285	\$ 1,155	\$ 1,127	\$1,103



(\$ millions)	2012E ¹	2013E ¹
Net cash provided by (used in) operating activities from continuing operations ²	\$ (98)	\$ 282
Capitalized interest ³	(3)	(3)
Adjusted net cash provided by (used in) operating activities	\$ (101)	\$ 279
Cash interest, net ³	353	361
Income taxes paid, net	-	2
Working capital and other changes	188	23
Adjusted EBITDA	\$ 440	\$ 665

1. Guidance does not include effects of CSAPR.

- 2. Represents the most directly comparable GAAP measure for our liquidity measures. See Guidance slide for a reconciliation of a djusted free cash flow (deficit) and adjusted free cash flow deficit excluding MD HAA cap ex, Marsh Landing and merger-related costs to Adjusted EBITDA.
- 3. Excludes capitalized interest from Marsh Landing.