



Fourth Quarter 2010 Earnings

March 1, 2011

Forward-Looking Statements

This presentation contains statements, estimates or projections that constitute “forward-looking statements” as defined under U.S. federal securities laws. In some cases, one can identify forward-looking statements by terminology such as “will,” “expect,” “estimate,” “think,” “forecast,” “guidance,” “outlook,” “plan,” “lead,” “project” or other comparable terminology. 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;
- (v) the ability to integrate successfully the businesses following the merger and realize cost savings and any other synergies; and
- (vi) 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 2010 Earnings
March 1, 2011

- Merger closed December 3, 2010
 - *Annual cost savings of \$150 million starting in January 2012*
 - *Integration proceeding smoothly*
- Clear strategy
 - *Focus on operations*
 - *Hedge to reduce volatility in realized gross margin*
 - *Capital structure to manage through different commodity price environments*
 - *Prudent investment of capital*
- Approximately \$3.1 billion of contracted and capacity revenue in 2011 – 2014 for which prices have been set

Leading IPP with over 24,000 MW of electric generating capacity

Initiating Guidance

(\$ millions)

Forward curves as of January 31, 2011	2011E	2012E
Adjusted EBITDA	\$595	\$559

2011E to 2012E



- Merger cost savings on track to achieve \$150 million by 2012
- Higher realized energy gross margin



- Lower contracted and capacity revenue
- Lower hedge value

2011 is a transition year to full cost savings in 2012

Merger Cost Savings

As of December 31, 2010

Categories	Target synergies (\$ millions)	Annualized reductions achieved (\$ millions)	% of Target
Labor	\$ 93	\$ 33	35%
Contracted services	16	-	-
IT systems	12	-	-
Insurance	9	8	89%
Legal	6	-	-
Atlanta office lease	4	-	-
Other	10	-	-
Total	\$150	\$41	27%

As of February 25, 2011

Near term (April – December 2011)

- Natural gas prices currently trade lower at ~ \$4.25/mmBtu
- Power prices at PJM West have decreased to ~ \$48.75/MWh
- NAPP coal prices have risen but not as sharply as CAPP; current NAPP prices ~ \$65/ton
- Dark spreads decreased

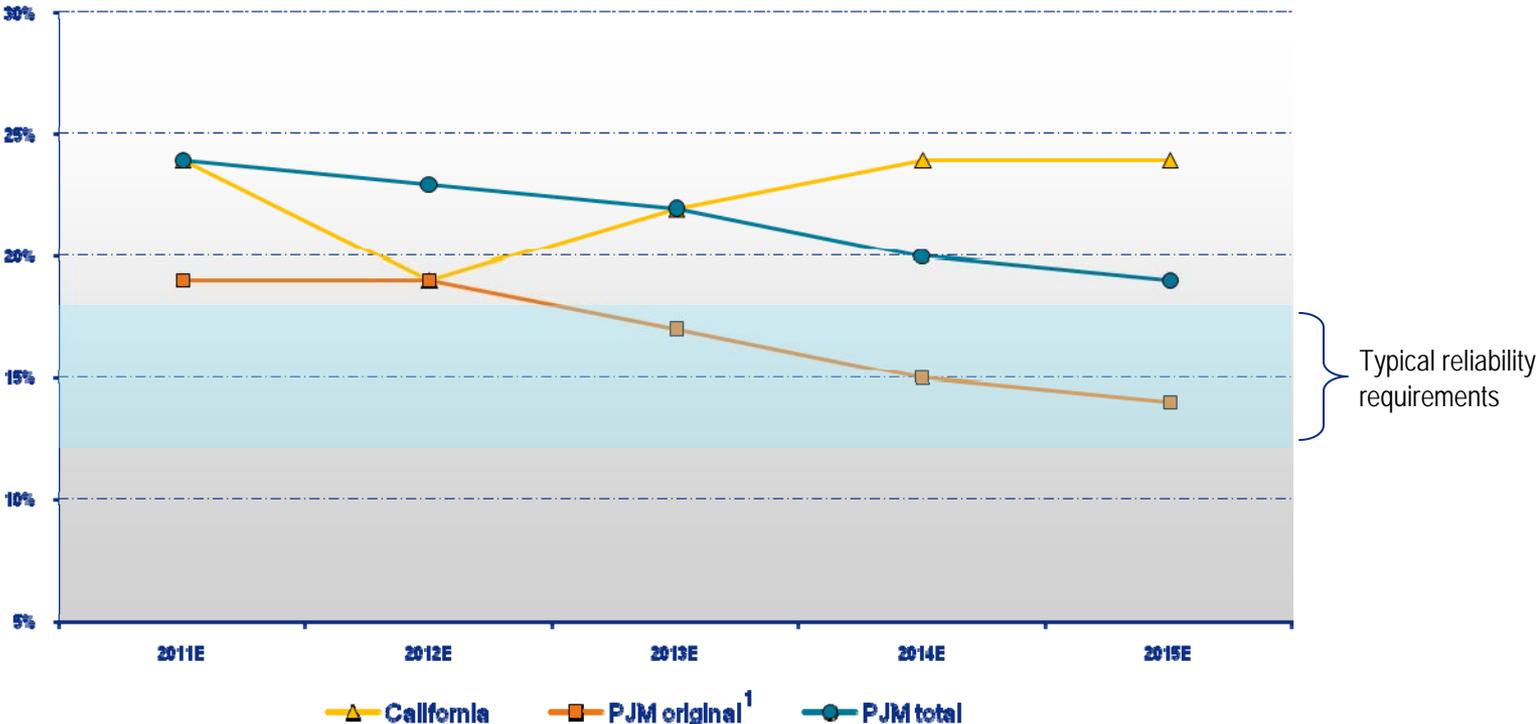
Longer term (2012 – 2014)

- Natural gas prices decreased and currently range ~ \$4.80 to \$5.50/mmBtu
- Power prices in PJM West decreased and currently range ~ \$50 to \$55/MWh
- NAPP coal prices higher but still lower than CAPP; currently range ~ \$66 to \$71/ton
- Dark spreads decreased

Electricity Markets - Reserve Margins



GenOn forecasted reserve margins incorporating the latest information from each ISO



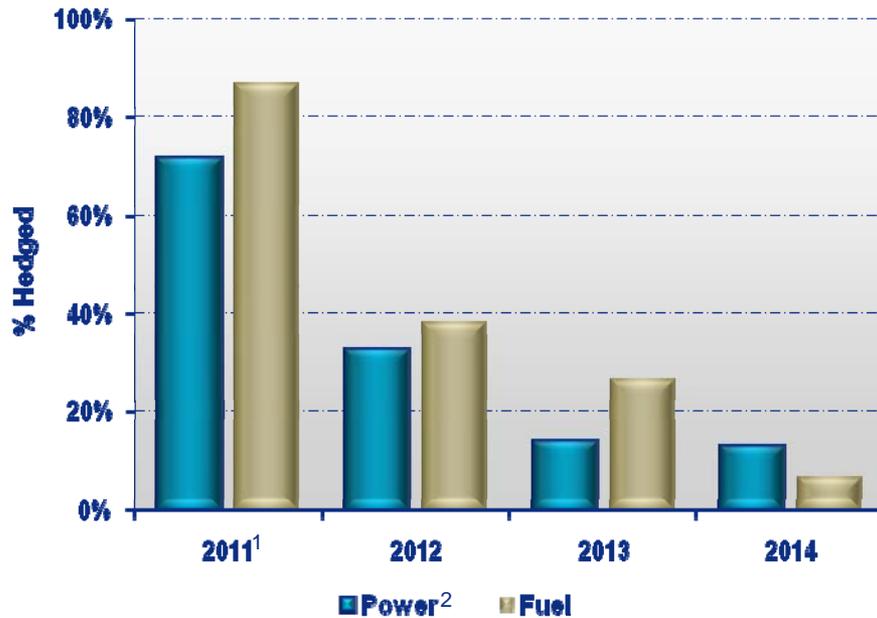
- Supply/demand expected to tighten in PJM

1. PJM original consists of substantially all of PA, NJ, MD and DE (EMAAC, SWMAAC and MAAC).

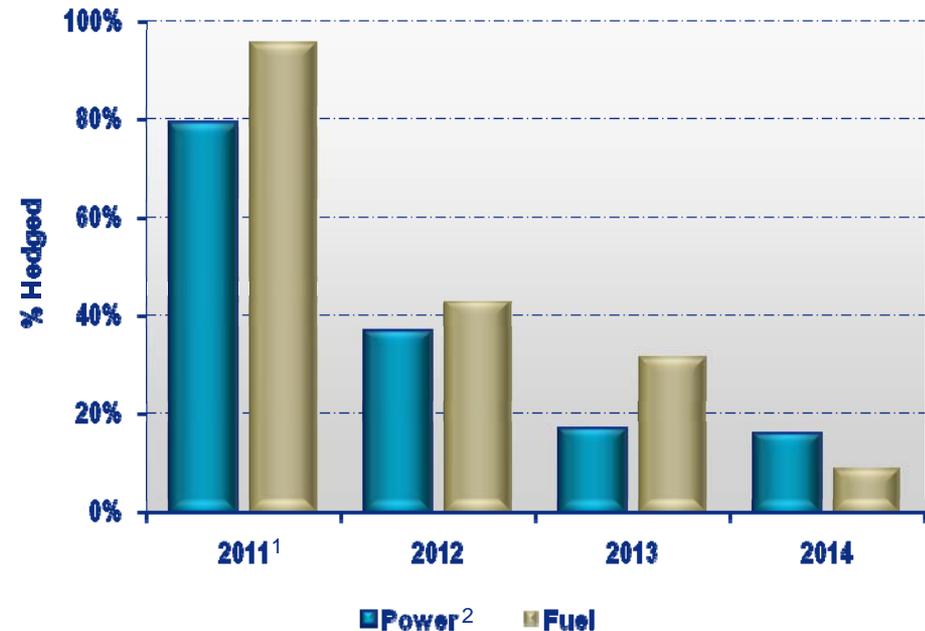
Hedge Levels

Based on expected generation as of January 31, 2011

Aggregate



Baseload Coal



1. 2011 represents balance of year (February - December).
2. Power hedges include hedges with both power and natural gas.

Marsh Landing Update

- On schedule and on budget
 - *Total project costs expected to be approximately \$700 million including capital and financing costs*
 - *To be completed by mid-2013*
- \$650 million project financing:
 - *\$500 million construction and term loan*
 - *\$150 million letter of credit facility*
- \$42 million cash invested through December 31, 2010





J. William Holden
Executive Vice President and CFO

Fourth Quarter 2010 Earnings
March 1, 2011

- Mirant is considered the acquirer for accounting purposes
 - *RRI's net assets adjusted to fair value of approximately \$1.8 billion*
 - *Merger results in estimated gain on bargain purchase of \$518 million*
 - *Financials reflect Mirant results through 12/2/10; GenOn results thereafter*
 - *REMA lease expense reduced from \$60 million/year to \$34 million/year; cash outlay unchanged*
- Merger-related costs estimated at \$215 million
 - *Includes transaction costs of \$87 million and merger costs of \$128 million*
 - *\$139 million incurred in 2010*
 - *\$73 million estimated in 2011 and 2012*
 - *\$3 million estimated in 2013 - 2016*

(\$ millions)	Reported	RRI Energy (prior to merger)	Pro forma Adjustments	Pro forma
Net Loss	\$ (50)	\$ (488)	\$ (208)	\$ (746)
Discontinued operations income	-	(6)	-	(6)
Unrealized (gains) losses on derivatives	42	(69)	-	(27)
Gain on bargain purchase	(518)	-	518	-
Impairment losses	565	361	-	926
Potomac River settlement obligation	32	-	-	32
Western states litigation and similar settlements	-	17	-	17
Kern River settlement	-	(40)	-	(40)
Merger-related costs	114	25	(139)	-
Postretirement benefits curtailment gain	(37)	-	-	(37)
Other	15	(18)	(19)	(22)
Adjusted income (loss) from continuing operations	\$ 163	\$ (218)	\$ 152	\$ 97
Income taxes, interest, depreciation and amortization	475	445	(106)	814
Adjusted EBITDA	\$ 638	\$ 227	\$ 46	\$ 911

Debt and Liquidity

(\$ millions)	December 31, 2010
Debt	
Amortizing term loan due 2017	\$698
Senior unsecured notes due 2014	575
Senior unsecured notes due 2017	725
Senior unsecured notes due 2018	675
Senior unsecured notes due 2020	550
GenOn Americas Generation:	
Senior notes due 2011	535
Senior notes due 2021	450
Senior notes due 2031	400
Capital leases due 2010-2015	22
Total continuing debt, excluding debt discharged and defeased	\$4,630
Debt discharged and defeased ¹	1,500
Total debt ²	\$6,130
Cash and cash equivalents:	
GenOn (excluding GenOn Mid-Atlantic and REMA)	\$2,179
GenOn Mid-Atlantic	202
REMA	21
Total cash and cash equivalents	\$2,402
Less: restricted and reserved	(11)
Available cash and cash equivalents	\$2,391
Revolver and letters of credit available ³	521
Total available liquidity	\$2,912

1. Funds on deposit are escrowed for the discharged and defeased debt.
2. Excludes unamortized debt discounts and adjustments to fair value of debt of \$49 million.
3. Excludes availability under GenOn Marsh landing credit facility.

Guidance

(Forward curves as of January 31, 2011)



(\$ millions)	2011E	2012E
Adjusted gross margin ¹	\$ 1,790	\$ 1,704
Adjusted operating and other expenses ²	(1,195)	(1,145)
Adjusted EBITDA	\$ 595	\$ 559
Cash interest, net ³	(377)	(344)
Income taxes paid, net	(19)	-
Working capital and other changes	(238)	(30)
Adjusted net cash provided by (used in) operating activities	\$ (39)	\$ 185
Capital expenditures ³	(592)	(432)
Adjusted free cash flow (deficit)	\$ (631)	\$ (247)
Maryland Healthy Air Act (MD HAA) capital expenditures	155	-
Marsh Landing working capital and capital expenditures ³	243	246
Payment of merger-related costs	85	12
Adjusted free cash flow (deficit) excluding MD HAA cap ex and Marsh Landing	\$ (148)	\$ 11
<hr/>		
Hedged adjusted gross margin	\$1,502	\$ 1,134
Adjusted operating and other expenses ²	(1,195)	(1,145)
Hedged adjusted EBITDA	\$ 307	\$ (11)

1. Adjusted gross margin excludes unrealized gains and losses as well as lower of cost or market inventory adjustments.

2. Includes \$34 million and \$96 million of annual operating lease expense for REMA and GenOn Mid-Atlantic, respectively. Excludes merger-related costs and certain other items.

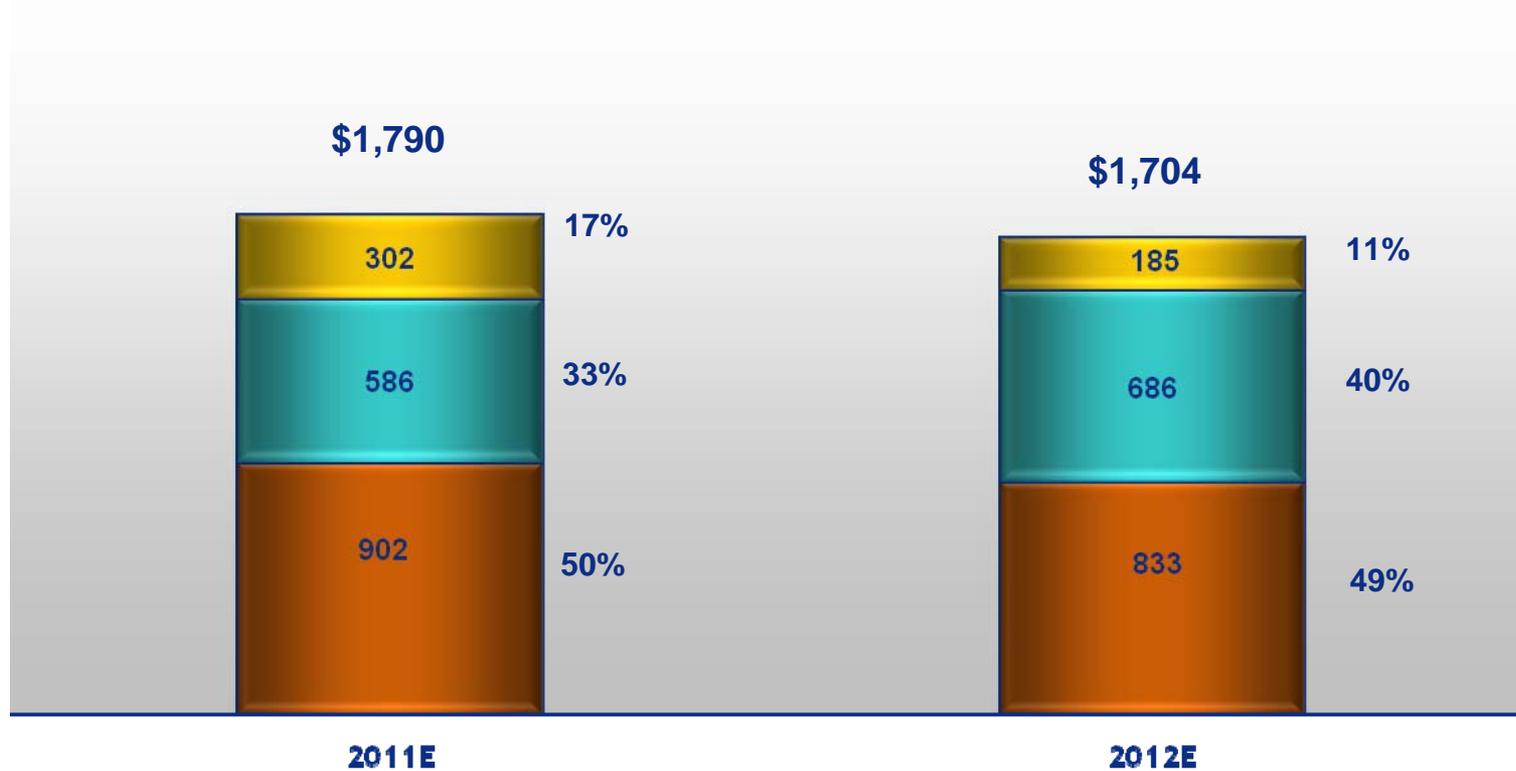
3. Capitalized interest from Marsh Landing is included in capital expenditures. All other capitalized interest is in Cash interest, net.

Adjusted Gross Margin Comparison

(Forward curves as of January 31, 2011)



(\$ millions)



Adjusted EBITDA Guidance Comparison (Forward curves as of January 31, 2011)



(\$ millions)

2010 pro forma vs. 2011 guidance

2010 pro forma	\$ 911
Contracted and capacity	(204)
Energy gross margin	
Market price and generation changes	(196)
Energy Marketing	(25)
Realized value of hedges	(7)
Operating and other expenses	116
2011 guidance	\$ 595

2011 vs. 2012 guidance

2011 guidance	\$ 595
Contracted and capacity	(69)
Energy gross margin	
Market price and generation changes	82
Energy Marketing	18
Realized value of hedges	(117)
Operating and other expenses	50
2012 guidance	\$ 559

Guidance Sensitivities

(Forward curves as of January 31, 2011)



Impact on Adjusted EBITDA (\$ millions)		
	2011E	2012E
Adjusted EBITDA	\$595	\$559
<u>Sensitivities:</u>		
Natural gas^{1,2} (\$/mmBtu change in average NYMEX price)	\$ 77	\$ 219
NYMEX \$/mmBtu	\$4.57	\$4.98
Power^{1,3} (500 Btu/kWh heat rate change)	\$ 37	\$95
Market Implied Heat Rate (MIHR), 7X24, Btu/kWh:		
PEPCO	9,549	9,080
PJM W	8,499	7,953
AEP - Dayton Hub	8,045	7,840

1. 2011 represents February – December.
2. Assumes MIHR and generation volumes are held constant.
3. Assumes fuel price and generation volumes are held constant.

Capital Expenditures

(\$ millions)	2011E	2012E
Maintenance	\$ 111	\$ 79
Environmental		
Maryland Healthy Air Act	155	-
Other	39	46
Construction		
Marsh Landing ¹	218	292
Other	52	4
Other	17	11
Total Capital Expenditures²	\$ 592	\$ 432

Expected normalized maintenance capital expenditures of ~\$110 million/year

1. \$405 million is expected to be project financed.
2. Excludes capitalized interest unrelated to Marsh Landing.

- GenOn's federal NOLs at December 31, 2010 are approximately \$1.9 billion
 - \$1.3 billion former RRI
 - \$ 0.6 billion former Mirant (as limited)
- Sufficient overlap of stockholders existed between Mirant and RRI, such that RRI did not experience an ownership change
 - *Generally, an ownership change occurs when there is >50% increase in ownership of a company's stock by new or existing 5% stockholders*
 - *The measurement period is 3 years*
 - *RRI is 48 percentage points toward an ownership change as a result of the merger*
 - *Former RRI NOLs can be used to offset future taxable income*
- Mirant experienced an ownership change as a result of the merger
 - *Former Mirant NOLs are subject to a \$54 million annual use limitation and will be available beginning December 2015 (5 years from the merger date)*
- Expect to pay, at most, federal Alternative Minimum Tax and some state tax for next 5 years

- To preserve the NOLs:
 - *Adopted a Stockholder Rights Agreement*
 - *Proposing a Charter Amendment*
- Stockholder Rights Agreement and the Charter Amendment require stockholder approval
- There is no assurance that the Stockholder Rights Agreement or Charter Amendment will prevent a subsequent ownership change

- Merger closed December 3, 2010
 - *Annual cost savings of \$150 million starting in January 2012*
 - *Integration proceeding smoothly*
- Clear strategy
 - *Focus on operations*
 - *Hedge to reduce volatility in realized gross margin*
 - *Capital structure to manage through different commodity price environments*
 - *Prudent investment of capital*
- Approximately \$3.1 billion of contracted and capacity revenue in 2011 – 2014 for which prices have been set



Appendix

Fourth Quarter 2010 Earnings

March 1, 2011

Guidance Assumptions



Forward curves as of January 31, 2011	2011E (February – December)		2012E	
	mmMWh ¹	Market Price	mmMWh	Market Price
Eastern PJM				
Delivered gas price (\$/mmbtu)		\$ 5.21		\$ 5.68
Delivered coal price (\$/ton)		\$ 97.04		\$100.04
Pepco (\$/MWh)				
On Peak	7.66	\$ 58.18	7.44	\$ 59.80
Off Peak	6.20	\$ 41.73	6.68	\$ 43.94
Total Eastern PJM	13.86		14.12	
% hedged		88%		78%
Western PJM/MISO				
Delivered gas price (\$/mmbtu)		\$ 5.21		\$ 5.68
Delivered coal price (\$/ton) ²		\$ 92.78		\$ 93.67
AD Hub (\$/MWh)				
On Peak	7.15	\$ 42.20	8.12	\$ 44.09
Off Peak	6.47	\$ 30.72	7.83	\$ 32.83
PJM W (\$/MWh)				
On Peak	4.19	\$ 50.73	4.29	\$ 51.67
Off Peak	3.02	\$ 38.02	3.32	\$ 38.97
Total Western PJM/MISO	20.83		23.57	
% hedged		59%		6%
California	0.37		0.78	
Other	1.23		1.26	
Total expected generation	36.29		39.73	
% hedged		72%		33%
Baseload coal expected generation	31.02		33.74	
% hedged		79%		37%
Power hedged vs market³		+\$10.04/MWh		+\$15.16/MWh
Fuel hedged vs market⁴		+\$0.83/MWh		-\$1.19/MWh
Total impact of hedged vs market^{3,4}		+\$10.86/MWh		+\$13.97/MWh

1. Year to date generation totaled 4.1 mmMWh through January 31, 2011.

2. Excludes Seward.

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

4. 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 31, 2011

\$ millions	2011E	2012E	2013E	2014E
Power ¹	\$ 273	\$ 200	\$ 204	\$ 198
Fuel	29	(16)	4	1
Realized value of hedges	\$ 302	\$185	\$208	\$199

	2011E	2012E	2013E	2014E
Power¹: mmMWh equivalents sold	26.2	13.2	5.5	5.6
Coal²: Average contract price (\$/mmBtu) hedged (before delivery)	\$ 2.64	\$ 2.95	\$ 2.74	\$ 2.77

1. Power hedges include hedges for both power and natural gas.
2. Excludes Seward.

Fixed Contracted and Capacity



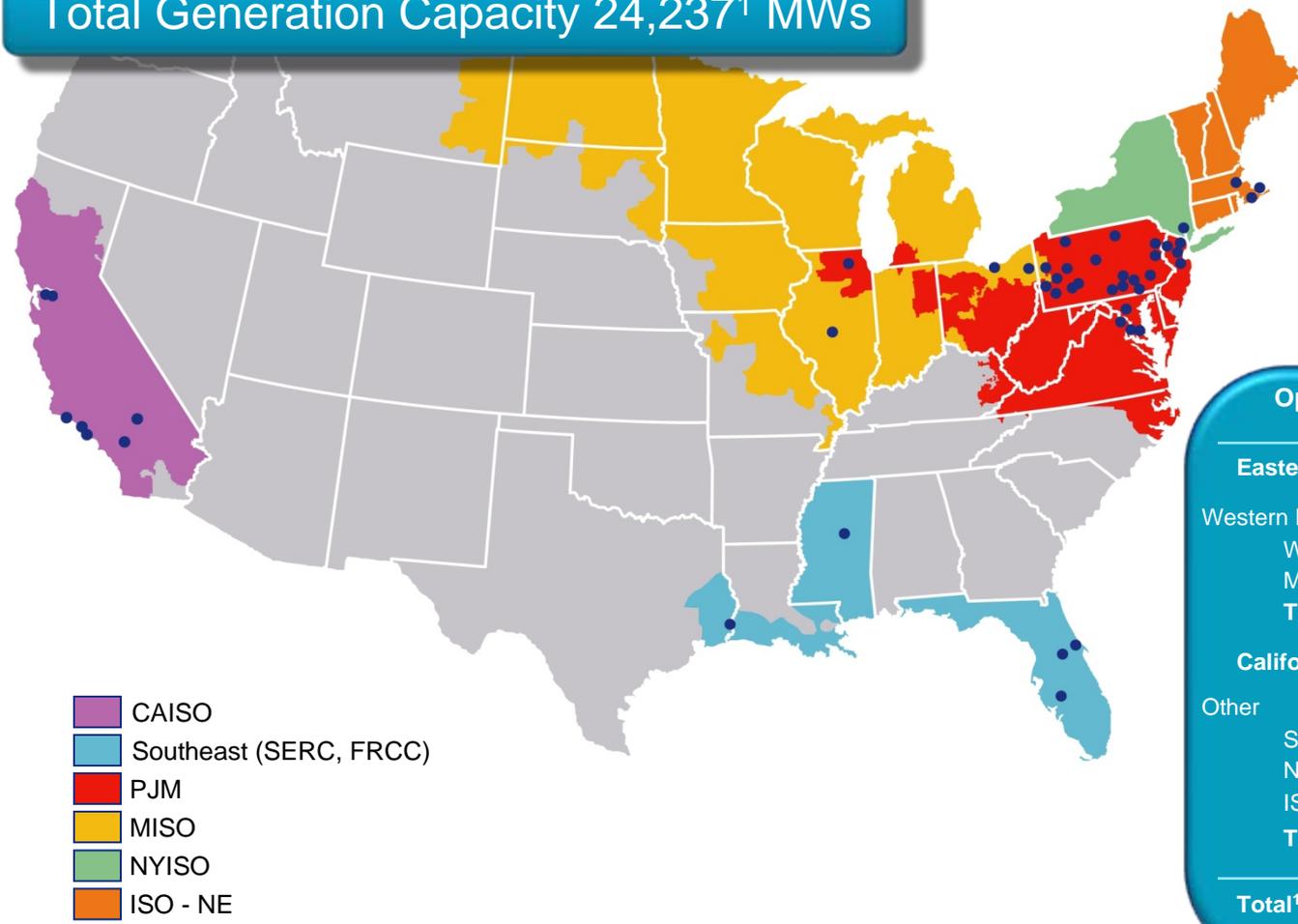
(\$ millions)
As of January 31, 2011



1. Includes capacity auction results for PJM and New York as well as contracted revenue for Osceola only through May 2014.

Generation Portfolio

Total Generation Capacity 24,237¹ MWs



- CAISO
- Southeast (SERC, FRCC)
- PJM
- MISO
- NYISO
- ISO - NE

Operating Segment / Market	Net Capacity (MW)
Eastern PJM	6,336
Western PJM/MISO	
Western PJM	5,814
MISO ²	1,669
Total Western PJM/ MISO	7,483
California ¹	5,363
Other	
Southeast	2,520
NYISO	1,139
ISO- NE	1,396
Total Other	5,055
Total¹	24,237

1. Excludes Potrero (362 MWs), which was shut down on February 28, 2011.
 2. Approximately 1,300 MW of generating capacity will move from MISO to PJM in June 2011.

Geographic Location of GenOn PJM Assets



(Most Recently Cleared LDA)

Applicable PJM Region/LDA ¹	RTO			
	MAAC			
	EMAAC		PEPCO	
GenOn Plants	Aurora	Blossburg	Gilbert	Chalk Point
	Avon Lake	Conemaugh	Glen Gardener	Dickerson
	Brunot Island	Hamilton	Sayreville	Morgantown
	Cheswick	Hunterstown	Werner	Potomac River
	Elrama	Keystone		
	New Castle	Mountain		
	Niles	Orrtanna		
		Portland		
		Seward		
		Shawnee		
		Shawville		
		Titus		
		Tolna		
		Warren		

1. Locational Delivery Area (LDA) from Planning Year 2013/14 auction.

Pro forma Generation



		Net MWh Generated	
		2010	2009
<u>Baseload¹</u>			
	Western PJM/MISO	19,317,102	19,812,421
	Eastern PJM	14,271,374	13,499,543
	California	N/A	N/A
	Other	3,360,687	2,913,304
	Total Baseload	36,949,163	36,225,267
<u>Intermediate^{1,2}</u>			
	Western PJM/MISO	2,270,282	1,897,951
	Eastern PJM	1,126,376	369,052
	California	944,095	2,179,225
	Other	394,995	673,052
	Total Intermediate	4,735,748	5,119,279
<u>Peaking¹</u>			
	Western PJM/MISO	48,014	14,499
	Eastern PJM	236,287	93,939
	California	2,906	10,255
	Other	288,933	293,626
	Total Peaking	576,139	412,318
Total GenOn		42,261,050	41,756,864

1. Based on "design" capability.

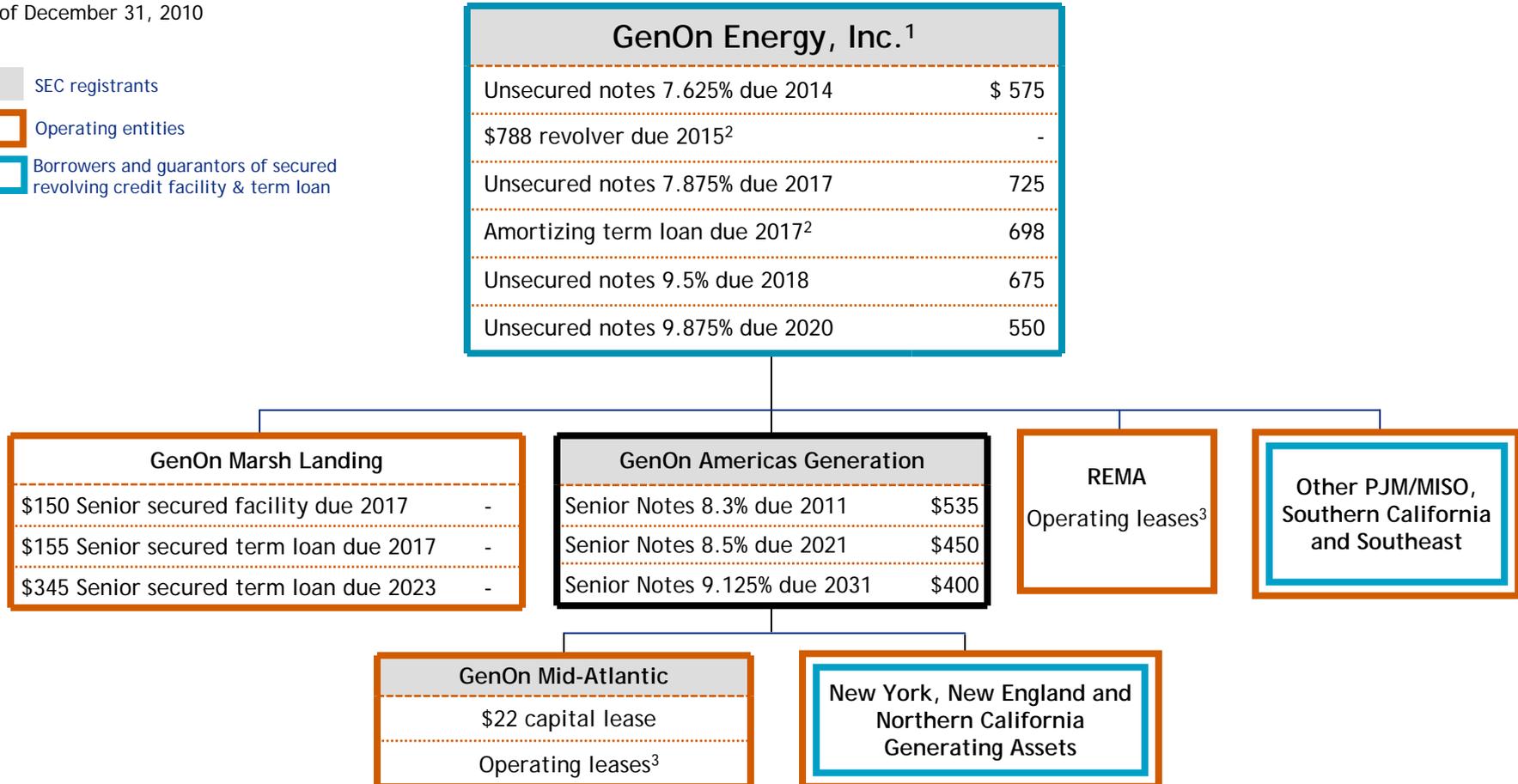
2. Excludes Indian River, which was mothballed January 2010.

Debt Structure

(\$ millions)

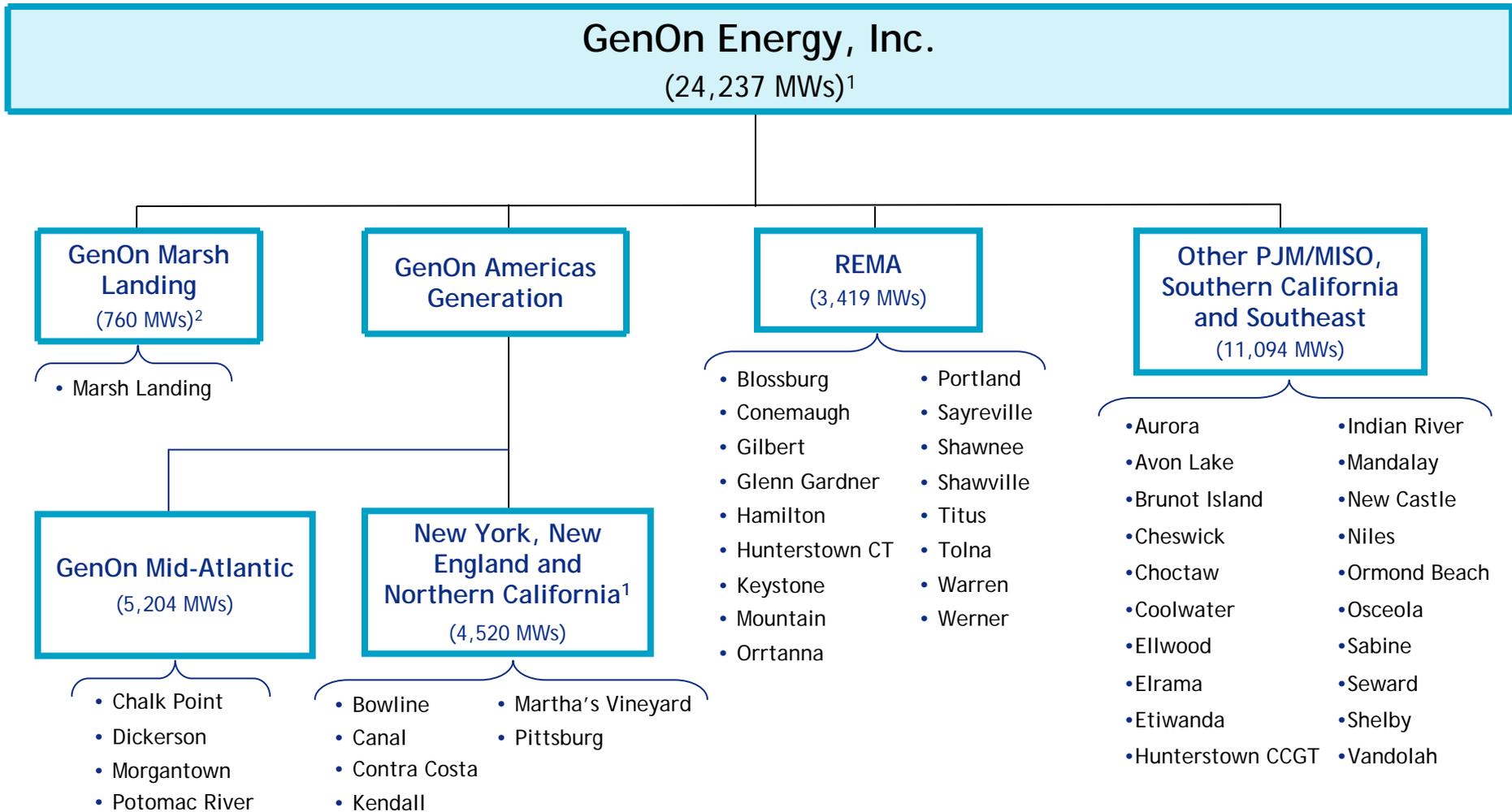
As of December 31, 2010

- SEC registrants
- Operating entities
- Borrowers and guarantors of secured revolving credit facility & term loan



1. Excludes the discharged and defeased debt totaling \$1.5 billion and unamortized debt discounts and adjustments to fair value of debt.
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 \$927 million and \$488 million, respectively.

Organizational Structure



1. Excludes Potrero (362 MWs), which was shut down on February 28, 2011.
 2. Under construction, expected to be complete mid- 2013.

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



(\$ millions)

	2010A	2010 Pro forma	2011E	2012E
Net loss	\$ (50)	\$ (746)	\$ (565)	\$ (398)
Income from discontinued operations	-	(6)	-	-
Loss from continuing operations	\$ (50)	\$ (752)	\$ (565)	\$ (398)
Unrealized (gains) losses on derivatives	42	(27)	308	191
Impairment losses	565	926	-	-
Potomac River settlement obligation	32	32	-	-
Kern River settlement	-	(40)	-	-
Western states litigation and similar settlements	-	17	-	-
Gain on bargain purchase	(518)	-	-	-
Merger-related costs	114	-	63	10
Mirant's accelerated vesting of stock-based compensation	24	-	-	-
Lower of cost or market inventory adjustments, net	(4)	(22)	-	-
Postretirement benefits curtailment gain	(37)	(37)	-	-
Loss on early extinguishment of debt	9	-	-	-
Reimbursement of prepaid interest	(14)	-	-	-
Other	-	-	11	-
Adjusted income (loss) from continuing operations	\$ 163	\$ 97	\$ (183)	\$ (197)
Provision (benefit) for income taxes	(2)	(2)	-	-
Interest expense, net	253	427	418	357
Depreciation and amortization	224	389	360	399
Adjusted EBITDA	\$ 638	\$ 911	\$ 595	\$ 559
Adjusted operating and other expenses			1,195	1,145
Adjusted Gross Margin			\$ 1,790	\$ 1,704
Unrealized losses on derivatives			(308)	(191)
Gross Margin			\$ 1,482	\$ 1,513

Reg G: Cash Flow from Operations to Adjusted EBITDA Guidance



(\$ millions)		
	2011E	2012E
Net cash provided by (used in) operating activities from continuing operations¹	\$ (35)	\$ 188
Capitalized interest	(4)	(3)
Adjusted net cash provided by (used in) operating activities	\$(39)	\$185
Income taxes paid, net	19	-
Cash interest, net	377	344
Working capital and other changes	238	30
Adjusted EBITDA	\$ 595	\$ 559

1. Represents the most directly comparable GAAP measure for our liquidity measures. See Guidance slide for a reconciliation of adjusted free cash flow (deficit) and adjusted free cash flow (deficit) excluding MD HAA cap ex and Marsh landing to Adjusted EBITDA.