

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Utility-scale solar PV total capacity: **0.26147721 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,503,420	-430
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,262,080	-30
NO _X (lb)	12,971,650	12,971,500	-150
Ozone season NO _X (lb)	6,824,720	6,824,630	-90
CO ₂ (tons)	31,033,220	31,033,010	-210
PM _{2.5} (lb)	4,728,540	4,728,500	-40
VOCs (lb)	3,199,800	3,199,770	-20
NH ₃ (lb)	2,340,910	2,340,890	-30
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.076
NO _X (lb/MWh)	0.204		0.338
Ozone season NO _X (lb/MWh)	0.223		0.409
CO ₂ (tons/MWh)	0.489		0.496
PM _{2.5} (lb/MWh)	0.074		0.102
VOCs (lb/MWh)	0.050		0.058
NH ₃ (lb/MWh)	0.037		0.068

- Negative numbers indicate displaced generation and emissions.
- All results are rounded to the nearest 10. A dash ("—") indicates non-zero results, but within +/- 10 units.
- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
- Data does not include changes to ICE vehicle emissions (e.g., emissions from tailpipes).
- Estimated marginal CO₂ emission rates for future years are available in the current AVERT Main Module <<https://www.epa.gov/avert/download-avert>>.

Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/> <input type="checkbox"/> All states
No states selected. Please select one or more states.	

Monthly Emission Changes New York Region

Select level of aggregation: <input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	Select pollutants: <input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources: <input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles NOTE: No electric vehicles inputs entered.	Select units: <input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

Direct Connection to COBRA

EPA's CO-Benefits Risk Assessment (COBRA) Health Impacts Screening and Mapping Tool <<https://www.epa.gov/cobra>> is a free tool that quantifies the air quality, human health, and health-related economic benefits from reductions in emissions that result from clean

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0.19247931856807554%22%2c%220%22%2c%220%22%2c%220%22%2c%220%22%2c%220%22%
0.0005948586952980933%22%2c%22%22%2c%22%22%2c%22%22%2c%22%22%2c%22%22%2c%22%22%2c%22%22%

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0.003%22%0d%0a%2236121%22%2c%22new%20york%22%2c%22wyoming%20county%22%2c%22fuel%2

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Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Utility-scale solar PV total capacity: **1,307,386.051 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,501,700	-2,140
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,940	-160
NO _X (lb)	12,971,650	12,970,920	-730
Ozone season NO _X (lb)	6,824,720	6,824,260	-460
CO ₂ (tons)	31,033,220	31,032,160	-1,060
PM _{2.5} (lb)	4,728,540	4,728,320	-220
VOCs (lb)	3,199,800	3,199,670	-120
NH ₃ (lb)	2,340,910	2,340,780	-130
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.076
NO _X (lb/MWh)	0.204		0.338
Ozone season NO _X (lb/MWh)	0.223		0.409
CO ₂ (tons/MWh)	0.489		0.496
PM _{2.5} (lb/MWh)	0.074		0.102
VOCs (lb/MWh)	0.050		0.058
NH ₃ (lb/MWh)	0.037		0.060

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Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Utility-scale solar PV total capacity: **2,614,772,101 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,499,560	-4,290
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,780	-330
NO _X (lb)	12,971,650	12,970,200	-1,450
Ozone season NO _X (lb)	6,824,720	6,823,800	-920
CO ₂ (tons)	31,033,220	31,031,100	-2,130
PM _{2.5} (lb)	4,728,540	4,728,100	-440
VOCs (lb)	3,199,800	3,199,550	-250
NH ₃ (lb)	2,340,910	2,340,650	-260
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.076
NO _X (lb/MWh)	0.204		0.338
Ozone season NO _X (lb/MWh)	0.223		0.408
CO ₂ (tons/MWh)	0.489		0.496
PM _{2.5} (lb/MWh)	0.074		0.102
VOCs (lb/MWh)	0.050		0.058
NH ₃ (lb/MWh)	0.037		0.060

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Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Utility-scale solar PV total capacity: **3,922,158.152 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,497,410	-6,440
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,620	-490
NO _X (lb)	12,971,650	12,969,470	-2,180
Ozone season NO _X (lb)	6,824,720	6,823,340	-1,380
CO ₂ (tons)	31,033,220	31,030,030	-3,190
PM _{2.5} (lb)	4,728,540	4,727,890	-650
VOCs (lb)	3,199,800	3,199,430	-370
NH ₃ (lb)	2,340,910	2,340,520	-390
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.076
NO _X (lb/MWh)	0.204		0.338
Ozone season NO _X (lb/MWh)	0.223		0.408
CO ₂ (tons/MWh)	0.489		0.496
PM _{2.5} (lb/MWh)	0.074		0.102
VOCs (lb/MWh)	0.050		0.058
NH ₃ (lb/MWh)	0.037		0.060

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Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Utility-scale solar PV total capacity: **5.229544202 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,495,270	-8,580
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,450	-660
NO _X (lb)	12,971,650	12,968,740	-2,910
Ozone season NO _X (lb)	6,824,720	6,822,880	-1,840
CO ₂ (tons)	31,033,220	31,028,970	-4,260
PM _{2.5} (lb)	4,728,540	4,727,670	-870
VOCs (lb)	3,199,800	3,199,300	-500
NH ₃ (lb)	2,340,910	2,340,400	-520
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.077
NO _X (lb/MWh)	0.204		0.339
Ozone season NO _X (lb/MWh)	0.223		0.408
CO ₂ (tons/MWh)	0.489		0.496
PM _{2.5} (lb/MWh)	0.074		0.102
VOCs (lb/MWh)	0.050		0.058
NH ₃ (lb/MWh)	0.037		0.068

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Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/> <input type="checkbox"/> All states
No states selected. Please select one or more states.	

Monthly Emission Changes New York Region

Select level of aggregation: <input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	Select pollutants: <input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources: <input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles NOTE: No electric vehicles inputs entered.	Select units: <input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **2,290,540,361 GWh**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,501,370	-2,480
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,920	-180
NO _X (lb)	12,971,650	12,970,890	-760
Ozone season NO _X (lb)	6,824,720	6,824,340	-380
CO ₂ (tons)	31,033,220	31,032,020	-1,210
PM _{2.5} (lb)	4,728,540	4,728,300	-240
VOCs (lb)	3,199,800	3,199,660	-140
NH ₃ (lb)	2,340,910	2,340,780	-140
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.074
NO _X (lb/MWh)	0.204		0.306
Ozone season NO _X (lb/MWh)	0.223		0.370
CO ₂ (tons/MWh)	0.489		0.487
PM _{2.5} (lb/MWh)	0.074		0.095
VOCs (lb/MWh)	0.050		0.054
NH ₃ (lb/MWh)	0.037		0.056

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Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **4,581,080,722 GWh**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,498,890	-4,960
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,740	-370
NO _X (lb)	12,971,650	12,970,130	-1,520
Ozone season NO _X (lb)	6,824,720	6,823,950	-770
CO ₂ (tons)	31,033,220	31,030,810	-2,410
PM _{2.5} (lb)	4,728,540	4,728,070	-470
VOCs (lb)	3,199,800	3,199,530	-270
NH ₃ (lb)	2,340,910	2,340,640	-280
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.074
NO _X (lb/MWh)	0.204		0.306
Ozone season NO _X (lb/MWh)	0.223		0.370
CO ₂ (tons/MWh)	0.489		0.487
PM _{2.5} (lb/MWh)	0.074		0.095
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Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/> <input type="checkbox"/> All states
No states selected. Please select one or more states.	

Monthly Emission Changes New York Region

Select level of aggregation: <input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	Select pollutants: <input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources: <input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles <small>NOTE: No electric vehicles inputs entered.</small>	Select units: <input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **6,871,621,083 GWh**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,496,410	-7,440
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,560	-550
NO _X (lb)	12,971,650	12,969,370	-2,270
Ozone season NO _X (lb)	6,824,720	6,823,570	-1,150
CO ₂ (tons)	31,033,220	31,029,600	-3,620
PM _{2.5} (lb)	4,728,540	4,727,830	-710
VOCs (lb)	3,199,800	3,199,390	-410
NH ₃ (lb)	2,340,910	2,340,500	-410
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.074
NO _X (lb/MWh)	0.204		0.306
Ozone season NO _X (lb/MWh)	0.223		0.370
CO ₂ (tons/MWh)	0.489		0.487
PM _{2.5} (lb/MWh)	0.074		0.095
VOCs (lb/MWh)	0.050		0.054
NH ₃ (lb/MWh)	0.037		0.056

- Negative numbers indicate displaced generation and emissions.
- All results are rounded to the nearest 10. A dash ("—") indicates non-zero results, but within +/- 10 units.
- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
- Data does not include changes to ICE vehicle emissions (e.g., emissions from tailpipes).
- Estimated marginal CO₂ emission rates for future years are available in the current AVERT Main Module <<https://www.epa.gov/avert/download-avert>>.

Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

Data Download

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Download COBRA Inputs 0.002%22%2c%220%22%0d%0a%2234017%22%2c%22new%20jersey%22%2c%22hudson%20county%22%2c%22highway%20vehicles%22%2c%220%22%2c%220%2c%22%

Back to Energy Impacts <<https://epa.gov/>>

Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **9,162,161,444 GWh**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,493,930	-9,920
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,370	-730
NO _X (lb)	12,971,650	12,968,610	-3,030
Ozone season NO _X (lb)	6,824,720	6,823,190	-1,530
CO ₂ (tons)	31,033,220	31,028,390	-4,830
PM _{2.5} (lb)	4,728,540	4,727,590	-950
VOCs (lb)	3,199,800	3,199,260	-540
NH ₃ (lb)	2,340,910	2,340,360	-550
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.074
NO _X (lb/MWh)	0.204		0.306
Ozone season NO _X (lb/MWh)	0.223		0.370
CO ₂ (tons/MWh)	0.489		0.487
PM _{2.5} (lb/MWh)	0.074		0.095
VOCs (lb/MWh)	0.050		0.054
NH ₃ (lb/MWh)	0.037		0.056

- Negative numbers indicate displaced generation and emissions.
- All results are rounded to the nearest 10. A dash ("—") indicates non-zero results, but within +/- 10 units.
- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
- Data does not include changes to ICE vehicle emissions (e.g., emissions from tailpipes).
- Estimated marginal CO₂ emission rates for future years are available in the current AVERT Main Module <<https://www.epa.gov/avert/download-avert>>.

Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/> <input type="checkbox"/> All states
No states selected. Please select one or more states.	

Monthly Emission Changes New York Region

Select level of aggregation: <input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	Select pollutants: <input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources: <input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles NOTE: No electric vehicles inputs entered.	Select units: <input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

Direct Connection to COBRA

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energy policies and programs. Outputs from AVERT can serve as inputs to COBRA. The button below will open a new browser tab and load your AVERT results directly into the COBRA Web Edition.

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **11,452,701,811 GWh**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,491,440	-12,400
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,190	-920
NO _X (lb)	12,971,650	12,967,850	-3,790
Ozone season NO _X (lb)	6,824,720	6,822,800	-1,920
CO ₂ (tons)	31,033,220	31,027,190	-6,040
PM _{2.5} (lb)	4,728,540	4,727,360	-1,180
VOCs (lb)	3,199,800	3,199,120	-680
NH ₃ (lb)	2,340,910	2,340,220	-690
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.074
NO _X (lb/MWh)	0.204		0.306
Ozone season NO _X (lb/MWh)	0.223		0.370
CO ₂ (tons/MWh)	0.489		0.487
PM _{2.5} (lb/MWh)	0.074		0.095
VOCs (lb/MWh)	0.050		0.054
NH ₃ (lb/MWh)	0.037		0.056

- Negative numbers indicate displaced generation and emissions.
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- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
- Data does not include changes to ICE vehicle emissions (e.g., emissions from tailpipes).
- Estimated marginal CO₂ emission rates for future years are available in the current AVERT Main Module <<https://www.epa.gov/avert/download-avert>>.

Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/> <input type="checkbox"/> All states
No states selected. Please select one or more states.	

Monthly Emission Changes New York Region

Select level of aggregation: <input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	Select pollutants: <input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources: <input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles NOTE: No electric vehicles inputs entered.	Select units: <input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **2,290,540,361** GWh

Utility-scale solar PV total capacity: **8,261,477.21** MW

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,500,940	-2,910
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,890	-220
NO _X (lb)	12,971,650	12,970,740	-900
Ozone season NO _X (lb)	6,824,720	6,824,240	-480
CO ₂ (tons)	31,033,220	31,031,800	-1,420
PM _{2.5} (lb)	4,728,540	4,728,260	-280
VOCs (lb)	3,199,800	3,199,640	-160
NH ₃ (lb)	2,340,910	2,340,750	-160
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.074
NO _X (lb/MWh)	0.204		0.310
Ozone season NO _X (lb/MWh)	0.223		0.377
CO ₂ (tons/MWh)	0.489		0.488
PM _{2.5} (lb/MWh)	0.074		0.096
VOCs (lb/MWh)	0.050		0.055
NH ₃ (lb/MWh)	0.037		0.056

- Negative numbers indicate displaced generation and emissions.
- All results are rounded to the nearest 10. A dash ("—") indicates non-zero results, but within +/- 10 units.
- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
- Data does not include changes to ICE vehicle emissions (e.g., emissions from tailpipes).
- Estimated marginal CO₂ emission rates for future years are available in the current [AVERT Main Module <https://www.epa.gov/avert/download-avert>](https://www.epa.gov/avert/download-avert).

Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation: <input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	Select pollutants: <input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources: <input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles NOTE: No electric vehicles inputs entered.	Select units: <input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

Direct Connection to COBRA

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **6,871,621,083 GWh**
 Utility-scale solar PV total capacity: **2,614,772,101 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,492,110	-11,730
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,261,230	-880
NO _X (lb)	12,971,650	12,967,920	-3,730
Ozone season NO _X (lb)	6,824,720	6,822,650	-2,070
CO ₂ (tons)	31,033,220	31,027,470	-5,750
PM _{2.5} (lb)	4,728,540	4,727,390	-1,150
VOCs (lb)	3,199,800	3,199,150	-650
NH ₃ (lb)	2,340,910	2,340,240	-670
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.075
NO _X (lb/MWh)	0.204		0.318
Ozone season NO _X (lb/MWh)	0.223		0.386
CO ₂ (tons/MWh)	0.489		0.490
PM _{2.5} (lb/MWh)	0.074		0.098
VOCs (lb/MWh)	0.050		0.056
NH ₃ (lb/MWh)	0.037		0.057

- Negative numbers indicate displaced generation and emissions.
- All results are rounded to the nearest 10. A dash ("—") indicates non-zero results, but within +/- 10 units.
- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
- Data does not include changes to ICE vehicle emissions (e.g., emissions from tailpipes).
- Estimated marginal CO₂ emission rates for future years are available in the current [AVERT Main Module <https://www.epa.gov/avert/download-avert>](https://www.epa.gov/avert/download-avert).

Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

Direct Connection to COBRA

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **11,452,701,811 GWh**

Utility-scale solar PV total capacity: **5,229,544,282 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,482,860	-20,980
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,260,530	-1,580
NO _X (lb)	12,971,650	12,964,940	-6,700
Ozone season NO _X (lb)	6,824,720	6,820,960	-3,760
CO ₂ (tons)	31,033,220	31,022,930	-10,290
PM _{2.5} (lb)	4,728,540	4,726,480	-2,060
VOCs (lb)	3,199,800	3,198,630	-1,170
NH ₃ (lb)	2,340,910	2,339,710	-1,210
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.075
NO _X (lb/MWh)	0.204		0.319
Ozone season NO _X (lb/MWh)	0.223		0.388
CO ₂ (tons/MWh)	0.489		0.490
PM _{2.5} (lb/MWh)	0.074		0.098
VOCs (lb/MWh)	0.050		0.056
NH ₃ (lb/MWh)	0.037		0.058

- Negative numbers indicate displaced generation and emissions.
- All results are rounded to the nearest 10. A dash ("—") indicates non-zero results, but within +/- 10 units.
- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
- Data does not include changes to ICE vehicle emissions (e.g., emissions from tailpipes).
- Estimated marginal CO₂ emission rates for future years are available in the current [AVERT Main Module <https://www.epa.gov/avert/download-avert>](https://www.epa.gov/avert/download-avert).

Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **18,333,685.74 GWh**

Utility-scale solar PV total capacity: **8,371,546 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,470,260	-33,590
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,259,590	-2,520
NO _X (lb)	12,971,650	12,960,920	-10,730
Ozone season NO _X (lb)	6,824,720	6,818,700	-6,020
CO ₂ (tons)	31,033,220	31,016,750	-16,470
PM _{2.5} (lb)	4,728,540	4,725,250	-3,290
VOCs (lb)	3,199,800	3,197,920	-1,870
NH ₃ (lb)	2,340,910	2,338,980	-1,930
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.075
NO _X (lb/MWh)	0.204		0.319
Ozone season NO _X (lb/MWh)	0.223		0.388
CO ₂ (tons/MWh)	0.489		0.490
PM _{2.5} (lb/MWh)	0.074		0.098
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NH ₃ (lb/MWh)	0.037		0.058

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Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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County	0.1920490214413096% 22%
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Results	0.10486499671854645% 22%

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **12,277,997,89 GWh**

Utility-scale solar PV total capacity: **5,606,391,732 MW**

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	63,481,350	-22,500
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,260,420	-1,690
NO _X (lb)	12,971,650	12,964,460	-7,190
Ozone season NO _X (lb)	6,824,720	6,820,690	-4,030
CO ₂ (tons)	31,033,220	31,022,190	-11,030
PM _{2.5} (lb)	4,728,540	4,726,340	-2,210
VOCs (lb)	3,199,800	3,198,540	-1,260
NH ₃ (lb)	2,340,910	2,339,620	-1,290
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.075
NO _X (lb/MWh)	0.204		0.319
Ozone season NO _X (lb/MWh)	0.223		0.388
CO ₂ (tons/MWh)	0.489		0.490
PM _{2.5} (lb/MWh)	0.074		0.098
VOCs (lb/MWh)	0.050		0.056
NH ₃ (lb/MWh)	0.037		0.058

- Negative numbers indicate displaced generation and emissions.
- All results are rounded to the nearest 10. A dash ("—") indicates non-zero results, but within +/- 10 units.
- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
- Data does not include changes to ICE vehicle emissions (e.g., emissions from tailpipes).
- Estimated marginal CO₂ emission rates for future years are available in the current [AVERT Main Module <https://www.epa.gov/avert/download-avert>](https://www.epa.gov/avert/download-avert).

Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

Direct Connection to COBRA

EPA's [CO-Benefits Risk Assessment \(COBRA\) Health Impacts Screening and Mapping Tool](#) (<https://www.epa.gov/cobra>) is a free tool that quantifies the air quality, human health, and health-related economic benefits from reductions in emissions that result from clean energy policies and programs. Outputs from AVERT can serve as inputs to COBRA. The button below will open a new browser tab and load your AVERT results directly into the COBRA Web Edition.

Submit Results to COBRA <<https://cobra.app.cloud.gov>>

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Reselect Geography

Regional, State, and County-Level Emissions Changes

Energy Impacts Inputs:

Reduce total annual generation by: **600,939,2107** GWh

Utility-scale solar PV total capacity: **274,401,4661** MW

Annual Emissions Changes • Power Sector Only New York Region

	Original	Post Change	Change
Generation (MWh)	63,503,850	62,404,560	-1,099,290
Total Emissions from Fossil Generation Fleet			
SO ₂ (lb)	1,262,110	1,177,770	-84,330
NO _X (lb)	12,971,650	12,627,090	-344,560
Ozone season NO _X (lb)	6,824,720	6,630,620	-194,100
CO ₂ (tons)	31,033,220	30,494,900	-538,330
PM _{2.5} (lb)	4,728,540	4,621,490	-107,050
VOCs (lb)	3,199,800	3,138,800	-61,000
NH ₃ (lb)	2,340,910	2,278,760	-62,160
AVERT-derived Emission Rates:	Average Fossil		Marginal Fossil
SO ₂ (lb/MWh)	0.020		0.077
NO _X (lb/MWh)	0.204		0.313
Ozone season NO _X (lb/MWh)	0.223		0.382
CO ₂ (tons/MWh)	0.489		0.490
PM _{2.5} (lb/MWh)	0.074		0.097
VOCs (lb/MWh)	0.050		0.055
NH ₃ (lb/MWh)	0.037		0.057

- Negative numbers indicate displaced generation and emissions.
- All results are rounded to the nearest 10. A dash ("—") indicates non-zero results, but within +/- 10 units.
- When users evaluate a portfolio scenario including EVs and EE or RE, marginal fossil values are not reported and a null sign ("Ø") is shown.
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Annual Emissions Changes • Including Vehicles New York Region

No electric vehicles inputs entered.

Annual Emissions Changes By State New York Region

Select States	<input type="button" value="▼"/>	<input type="checkbox"/> All states
No states selected. Please select one or more states.		

Monthly Emission Changes New York Region

Select level of aggregation:	Select pollutants:
<input checked="" type="radio"/> Region <input type="radio"/> State <input type="radio"/> County	<input type="checkbox"/> SO ₂ <input type="checkbox"/> NO _X <input type="checkbox"/> CO ₂ <input type="checkbox"/> PM _{2.5} <input type="checkbox"/> VOCs <input type="checkbox"/> NH ₃
Select emissions sources:	Select units:
<input checked="" type="checkbox"/> Power sector <input type="checkbox"/> Vehicles	<input checked="" type="radio"/> Emission changes (lb or tons) <input type="radio"/> Percent change
No pollutants selected. Please select at least one pollutant to see monthly emissions data charted.	

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Download	6.54370994976889% 22% 2c% 229.941333302036703% 22% 2c% 2215.506547226487%
County	4.04857830750528% 22% 2c% 229.941333302036703% 22% 2c% 2215.506547226487%
Level	5.392576533902991% 22% 2c% 22-3.40904919206676% 22% 2c% 22-3.2987876892405% 22% 2c%
Results	

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