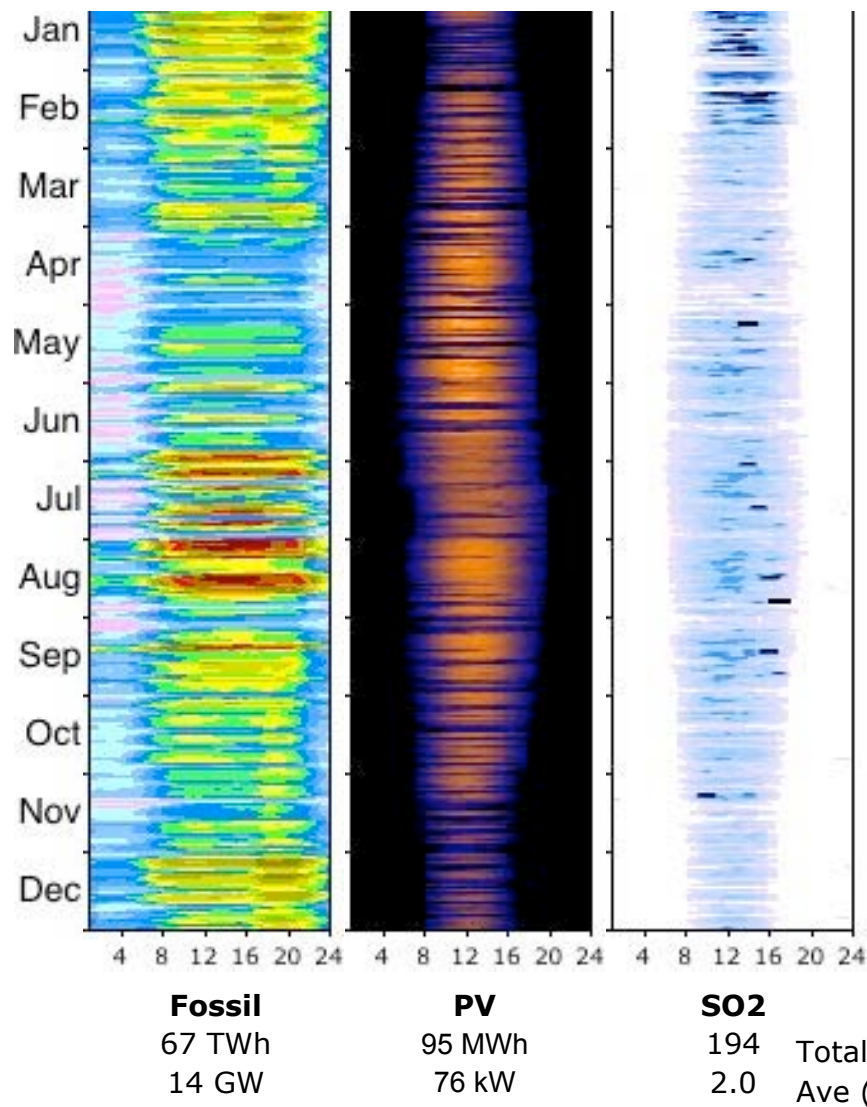


Appendix B Section VII – eGrid Generation, PV Generation, and Emission Offset Profiles for Select Years

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eGrid Fossil Generation, PV Generation, and Emission Offset Profiles



Contour plots show total eGrid fossil generation, PV Generation, and load shape following emission offsets for SO_2 , NO_x , and CO_2 . The avoided emissions from PV (or the emission offsets) are a multiple of the load shape following emission rates (kg/MWh) and the total PV generation in the subregion per monitored PV capacity (kWh/kW). The result is the emissions avoided by the PV generation per monitored PV capacity (g/kW).

Below the contour plot is a chart that displays the total eGrid generation in TWh and the maximum hourly generation in GW. The eGrid generation is normalized to its peak hour. The chart also shows the total (MWh) and maximum hourly (kW) PV generation. The PV generation contours are normalized to the hourly monitored capacity. This takes in to account PV systems in the subregion that break or are installed during the year. The chart shows total avoided emissions in kg for the year for each emission and the average avoided emissions per MWh of PV generation.

All plots are for 2002. Simulated PV generation is shown for subregions where actual PV system data were not available.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
 NEWE (New England) – (365 days x 24 hours)

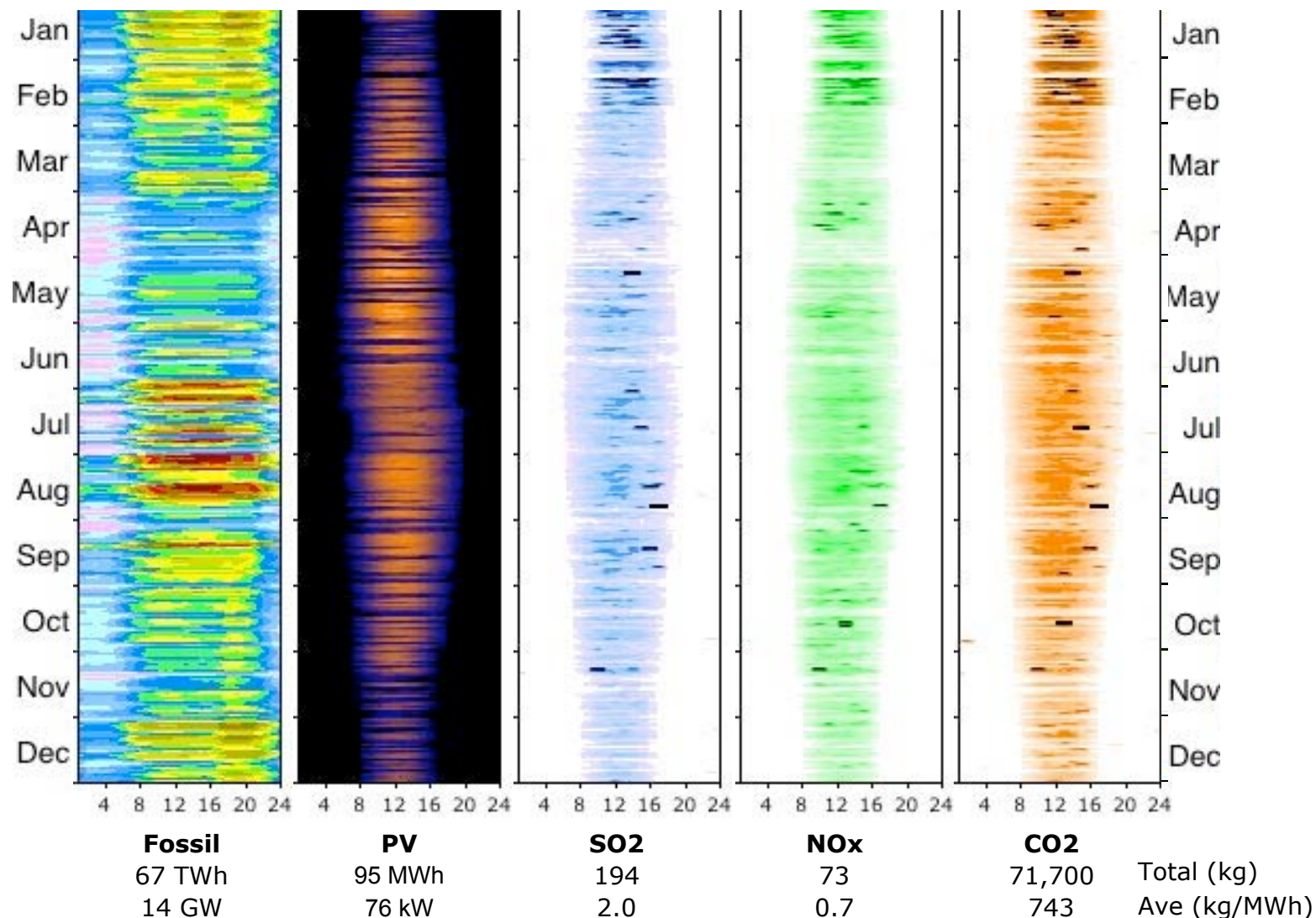


Figure BVII - 1. NEWE – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for NEWE (New England) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
 NYAS (New York) – (365 days x 24 hours)

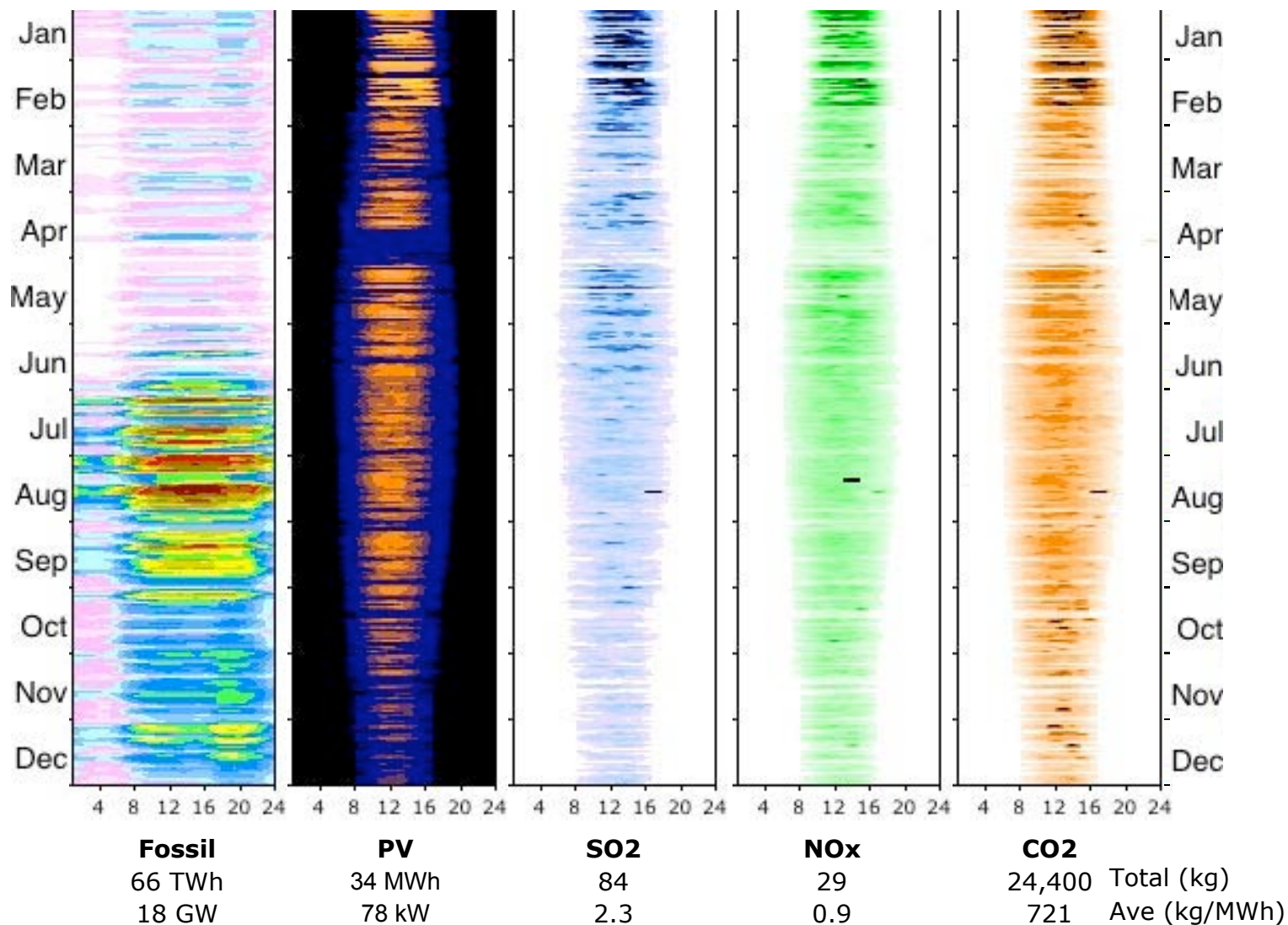


Figure BVII - 2. NYAS – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for NYAS (New York) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
MAAC (Mid-Atlantic) – (365 days x 24 hours)

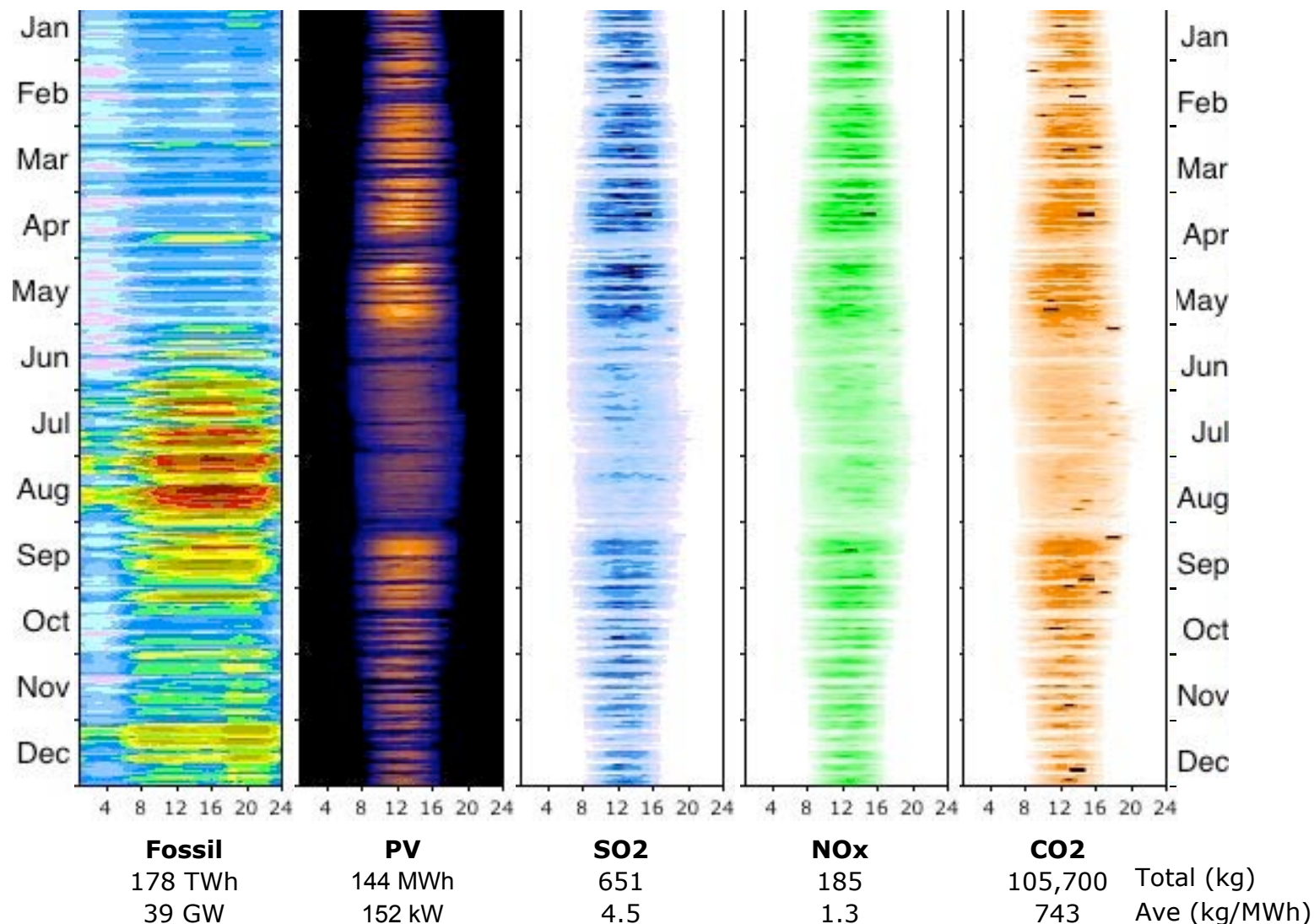


Figure BVII - 3. MAAC – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for MAAC (Mid-Atlantic) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
ECOV (Ohio Valley) – (365 days x 24 hours)

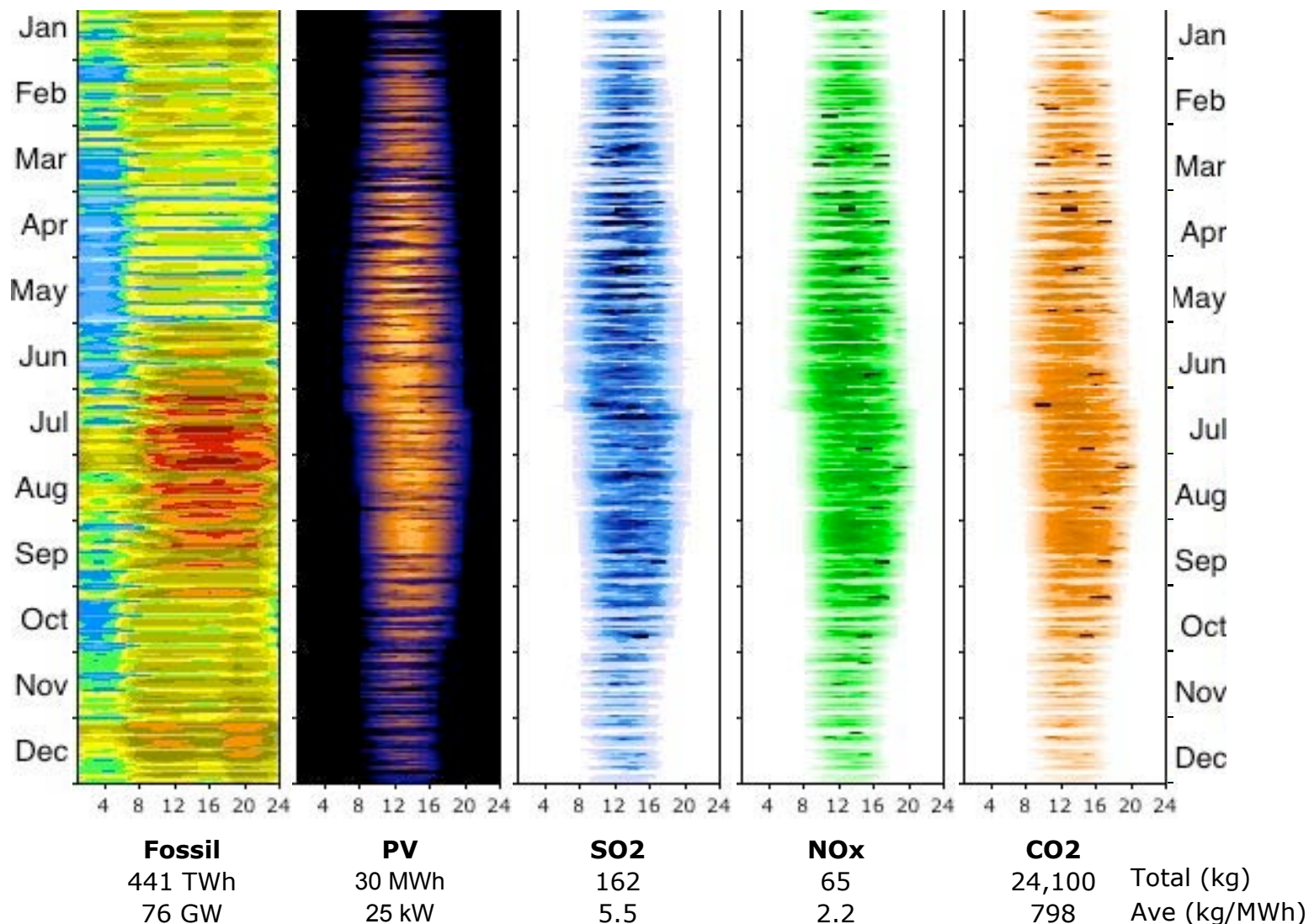


Figure BVII - 4. ECOV – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for ECOV (Mid-Atlantic) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
ECMI (Michigan) – (365 days x 24 hours)

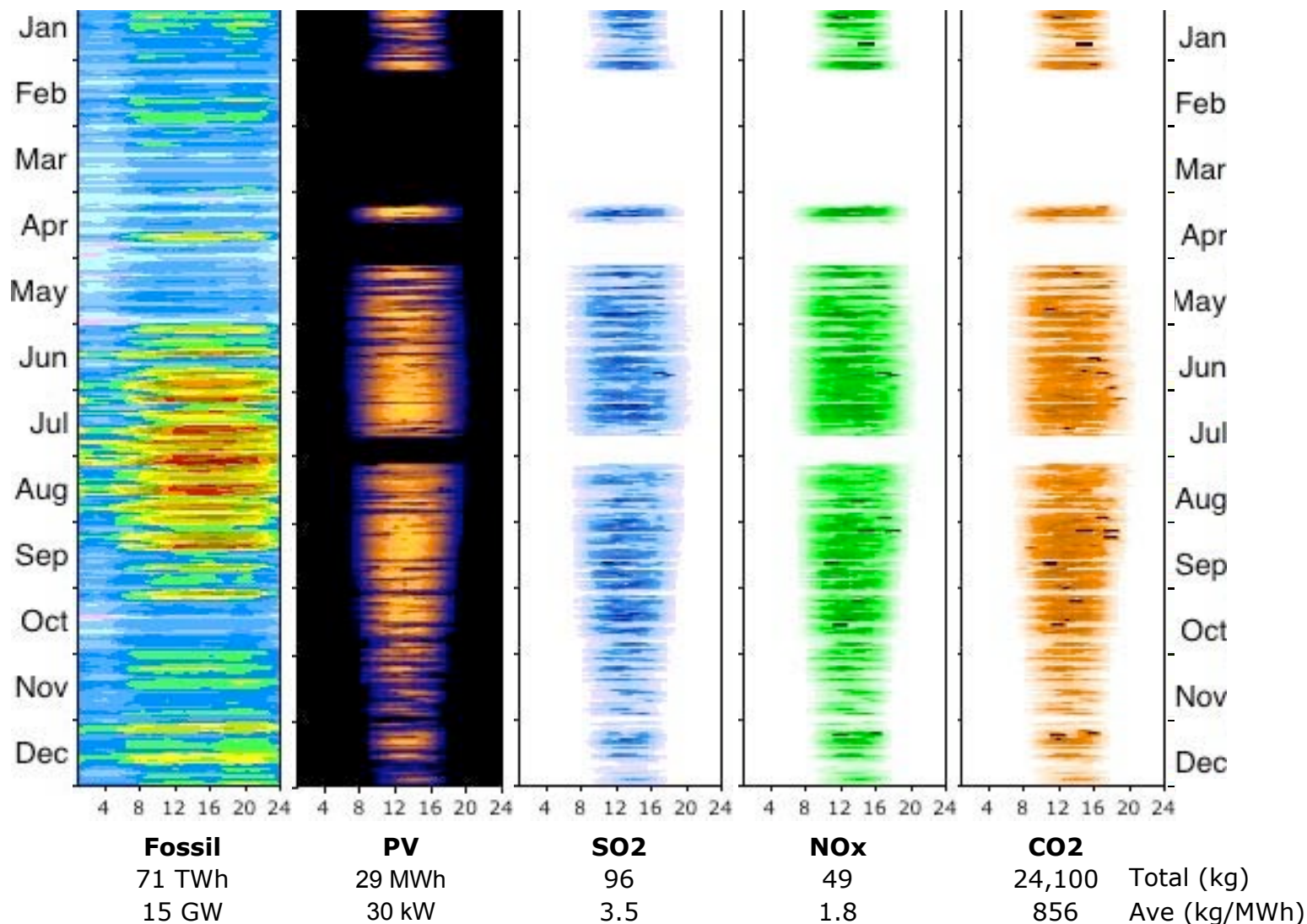


Figure BVII - 5. ECMI – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for ECMI (Michigan) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

1998 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
SRVC (Virginia/Carolinas) – (365 days x 24 hours)

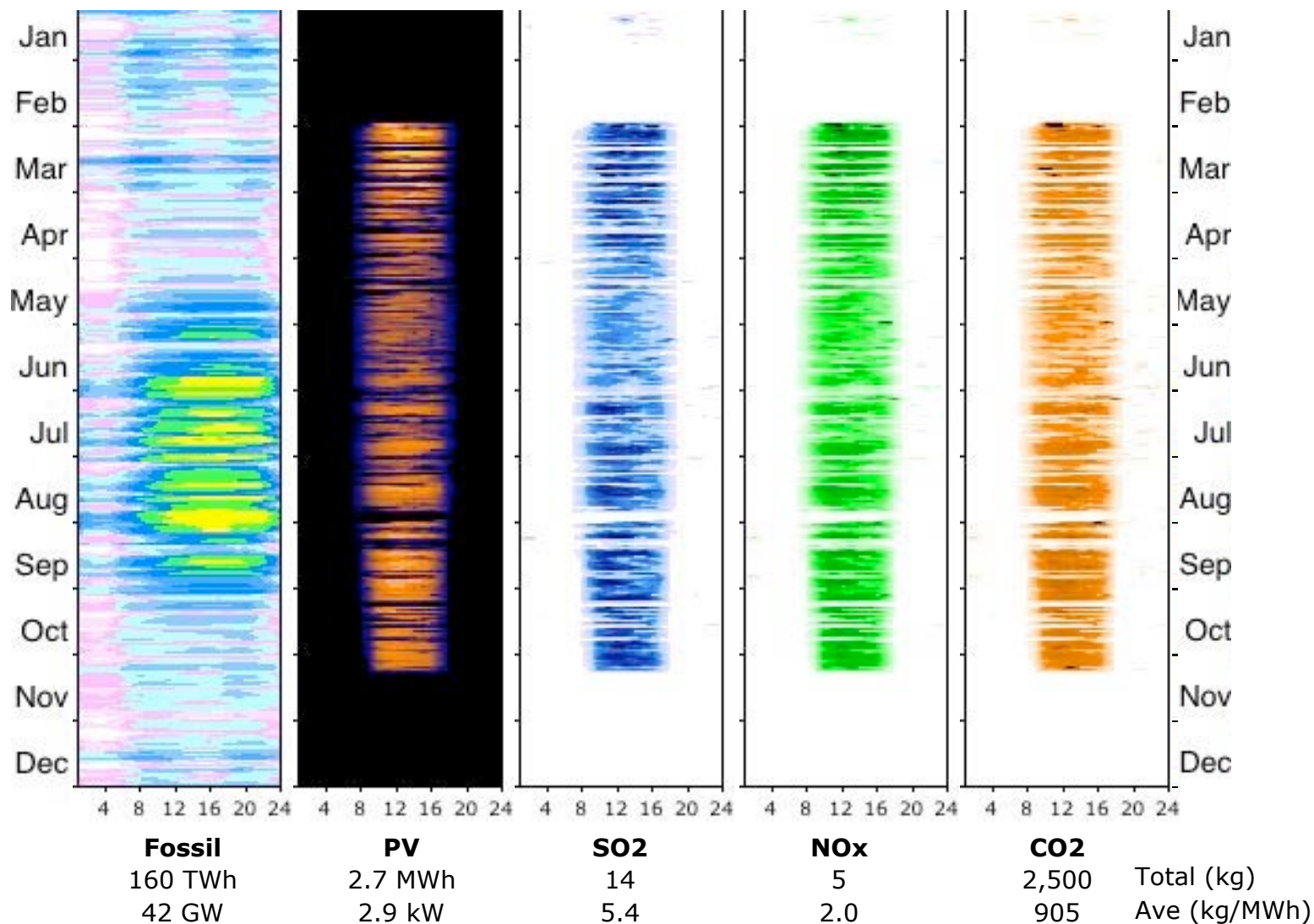


Figure BVII - 6. SRVC –1998 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for SRVC (Virginia/Carolinas) in 1998. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. SEPA PV is data not available after 1998.

2002 Fossil Load, Simulated PV Generation, and Offsets per Monitored PV Capacity
SRTV (Tennessee Valley) – (365 days x 24 hours)

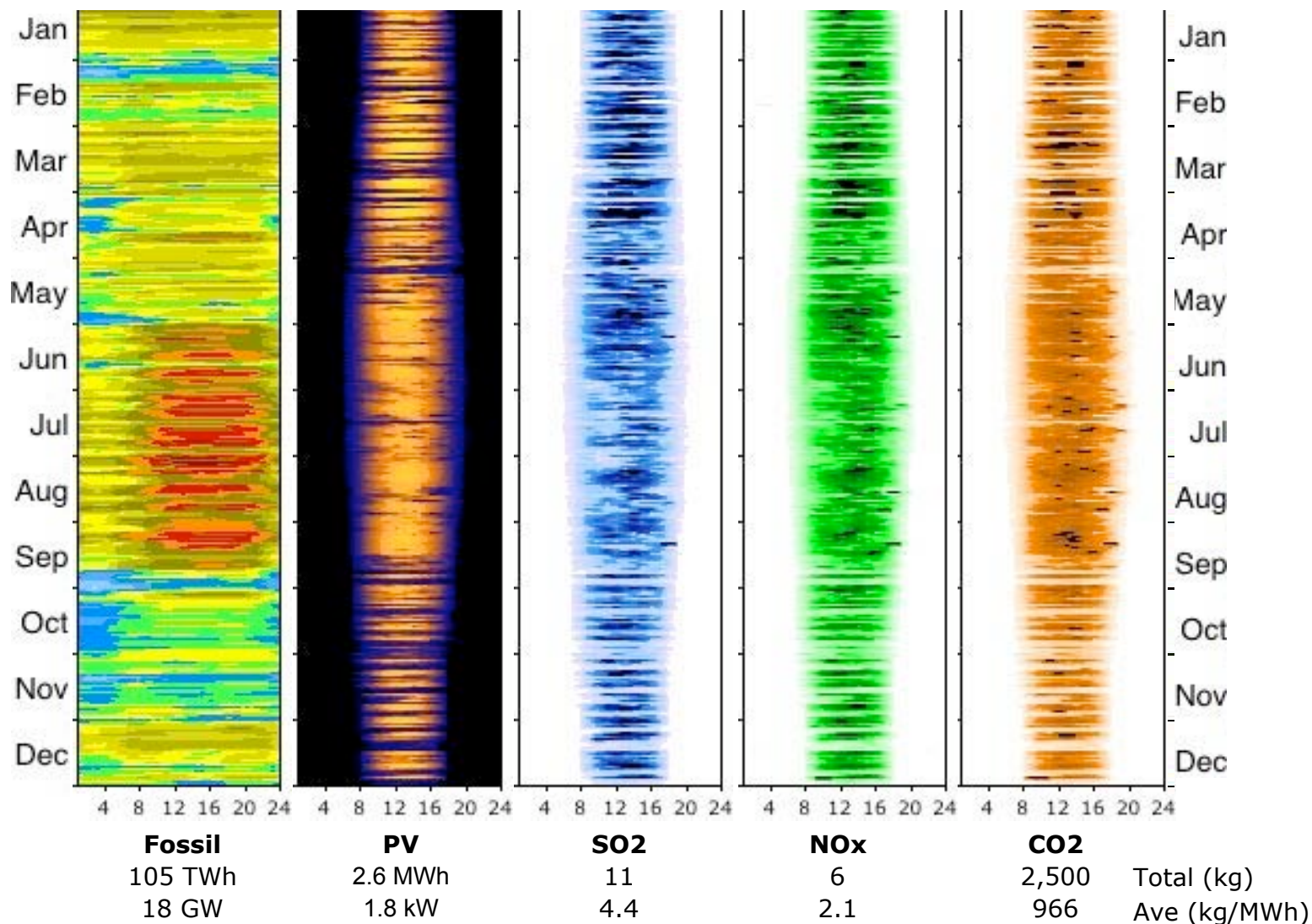


Figure BVII - 7. SRTV – 2002 Fossil Load, Simulated PV, and Offsets per Monitored PV Capacity

All contour plots are for SRTV (Tennessee Valley) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. PV data is simulated.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
SRSO (Southeast) – (365 days x 24 hours)

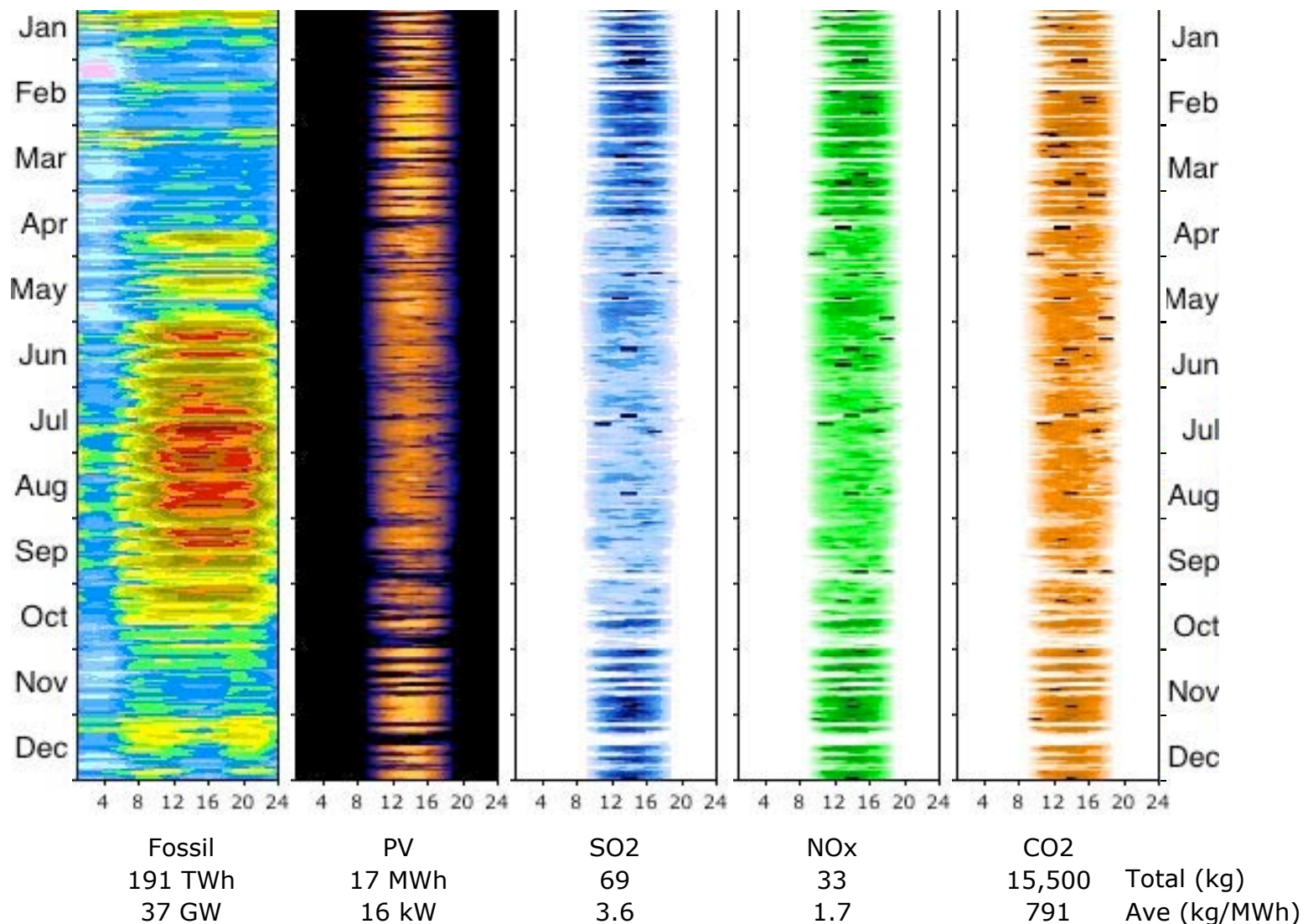


Figure BVII - 8. SRSO – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for SRSO (Southeast) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

2002 Fossil Load, Simulated PV Generation, and Offsets per Monitored PV Capacity
SRMV (Mississippi Valley) – (365 days x 24 hours)

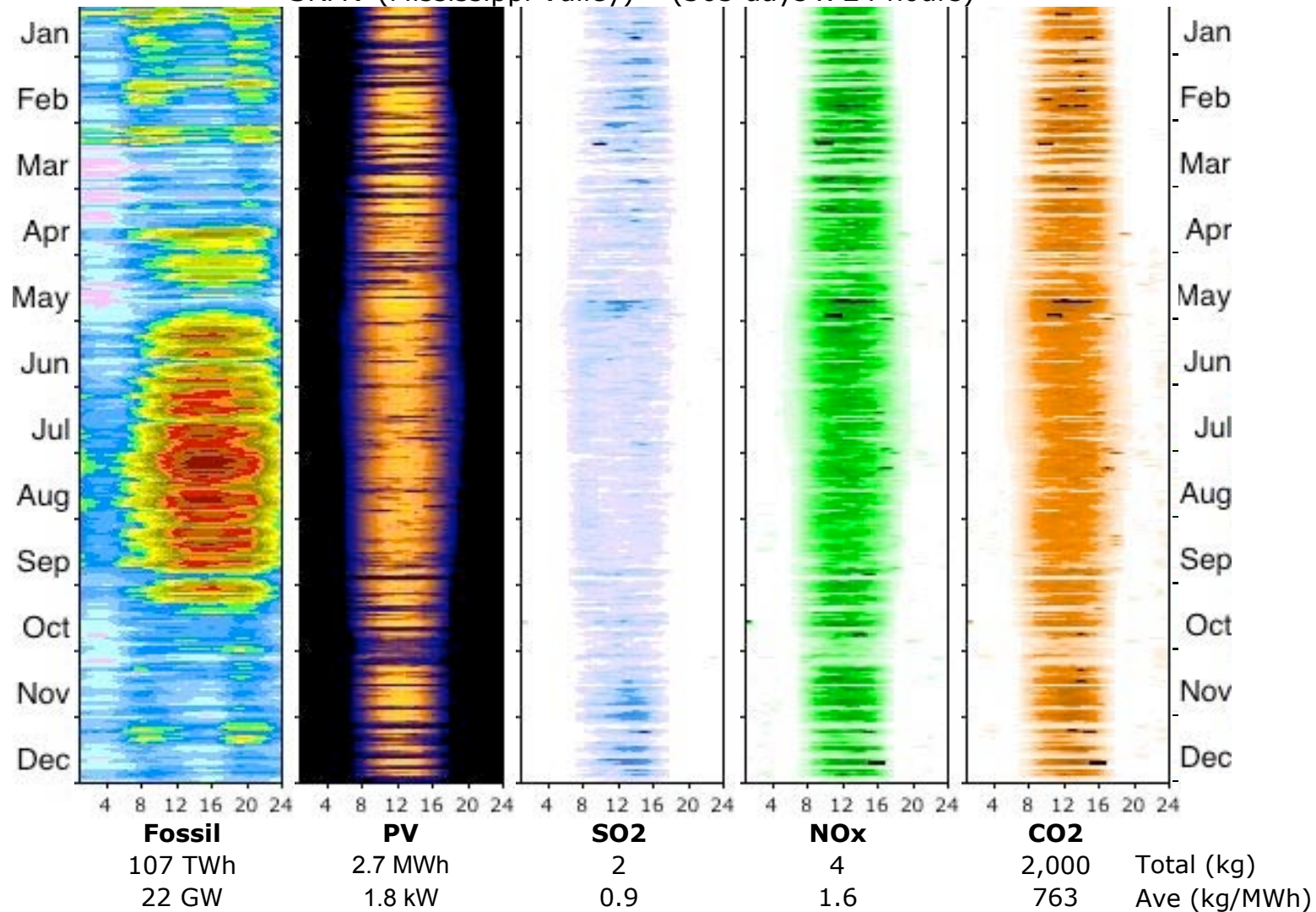


Figure BVII - 9. SRMV – 2002 Fossil Load, Simulated PV, and Offsets per Monitored PV Capacity

All contour plots are for SRMV (Mississippi Valley) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. PV data is simulated.

2002 Fossil Load, Simulated PV Generation, and Offsets per Monitored PV Capacity
FRCC (Florida) – (365 days x 24 hours)

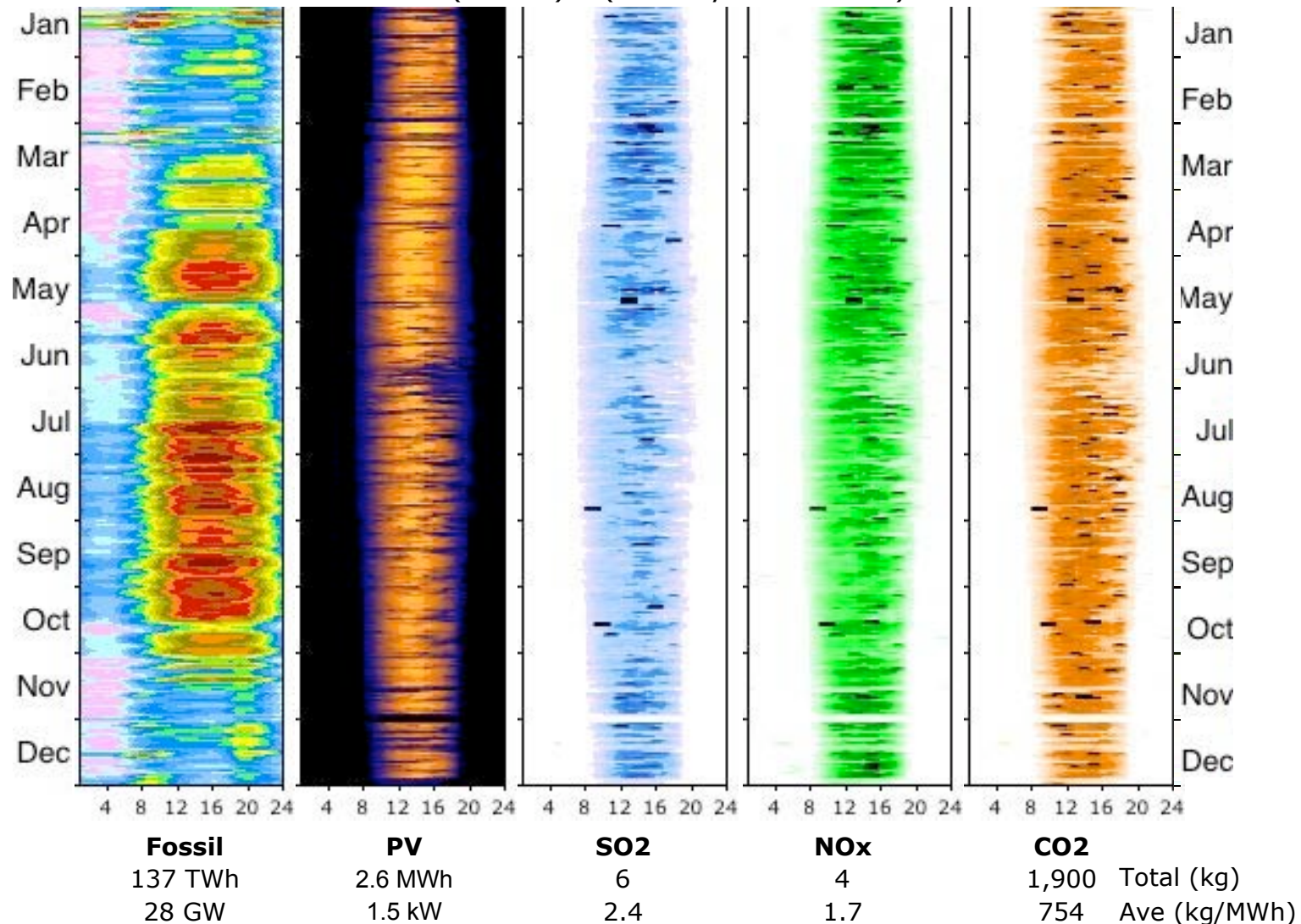


Figure BVII - 10. FRCC – 2002 Fossil Load, Simulated PV, and Offsets per Monitored PV Capacity

All contour plots are for FRCC (Florida) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. PV data is simulated.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
MANN (Wisconsin) – (365 days x 24 hours)

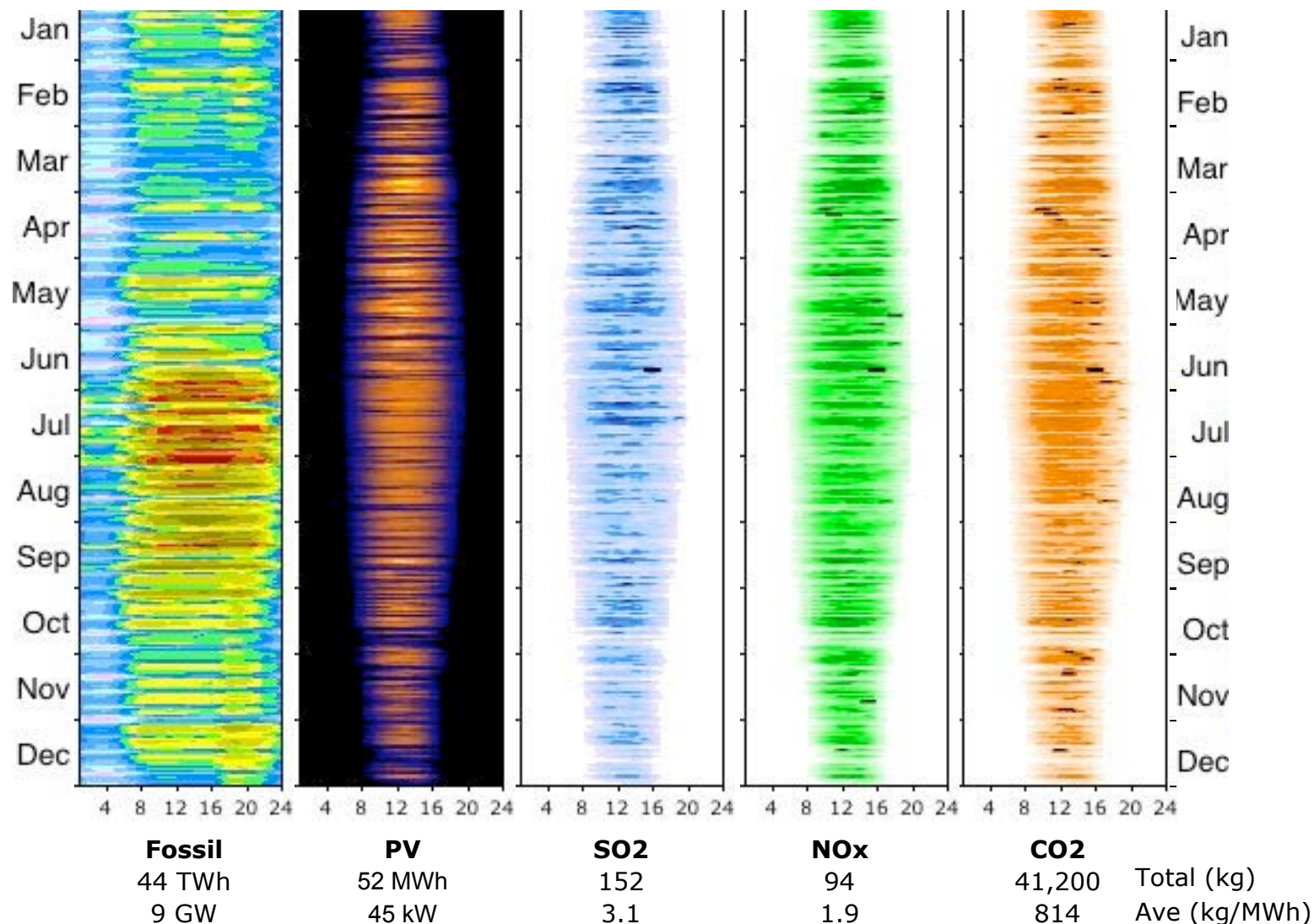


Figure BVII - 11. MANN – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for MANN (Wisconsin) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

2002 Fossil Load, Simulated PV Generation, and Offsets per Monitored PV Capacity
MANS (Illinois) – (365 days x 24 hours)

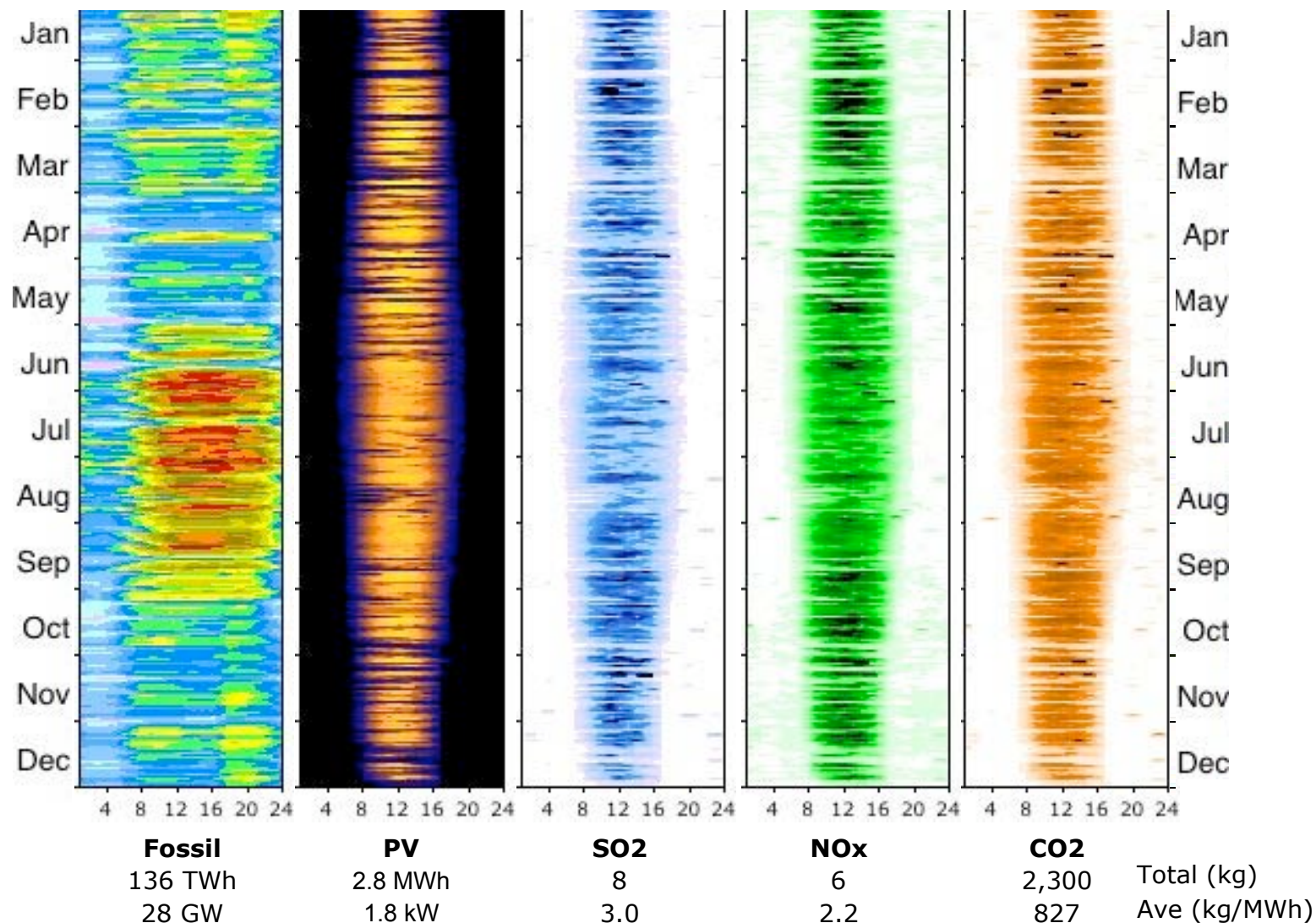


Figure BVII - 12. MANS – 2002 Fossil Load, Simulated PV, and Offsets per Monitored PV Capacity

All contour plots are for MANS (Illinois) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. PV data is simulated.

2002 Fossil Load, Simulated PV Generation, and Offsets per Monitored PV Capacity
SPNO (Kansas) – (365 days x 24 hours)

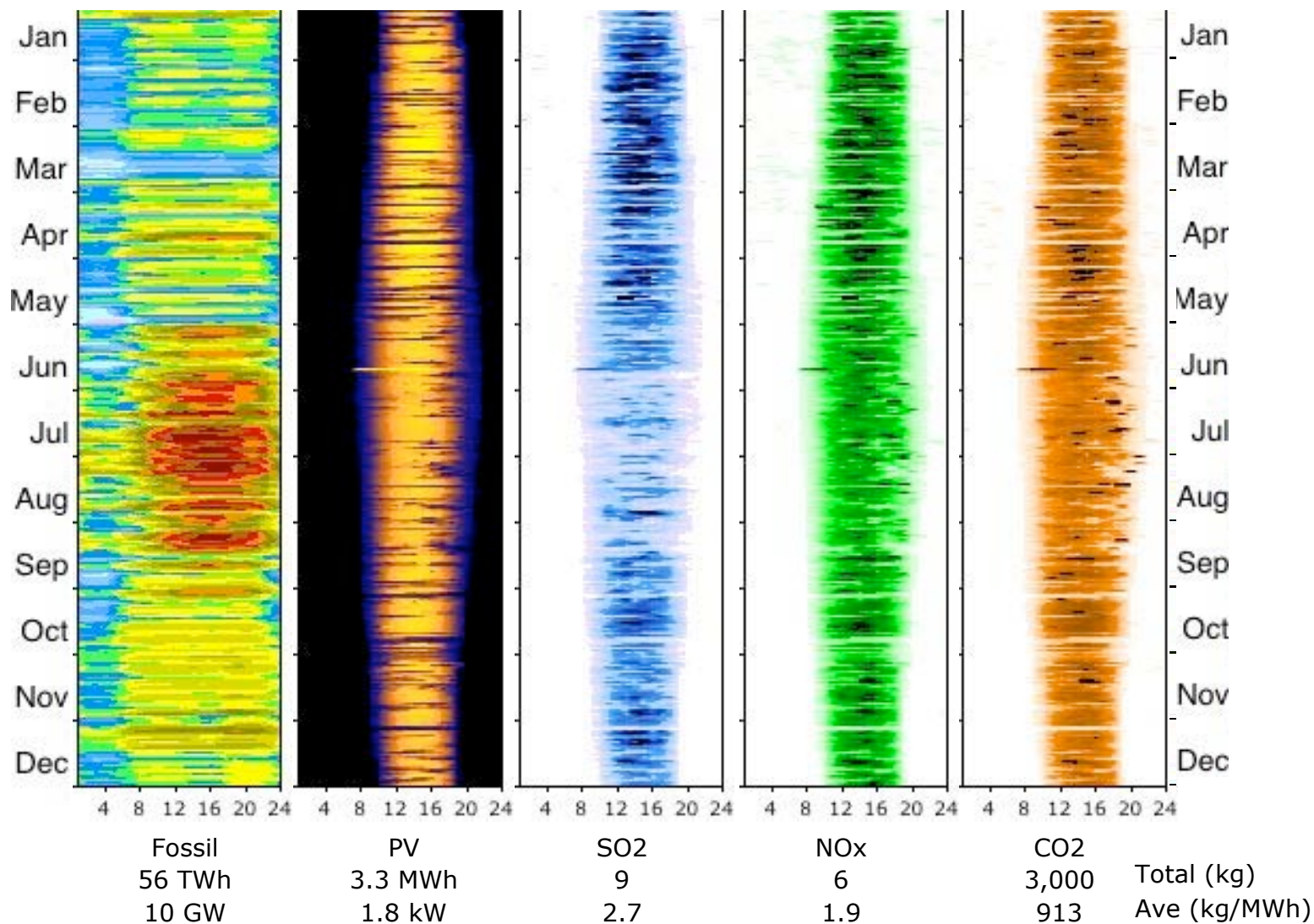


Figure BVII - 13. SPNO – 2002 Fossil Load, Simulated PV, and Offsets per Monitored PV Capacity

All contour plots are for SPNO (Kansas) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. PV data is simulated.

2000 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
SPSO (Oklahoma) – (365 days x 24 hours)

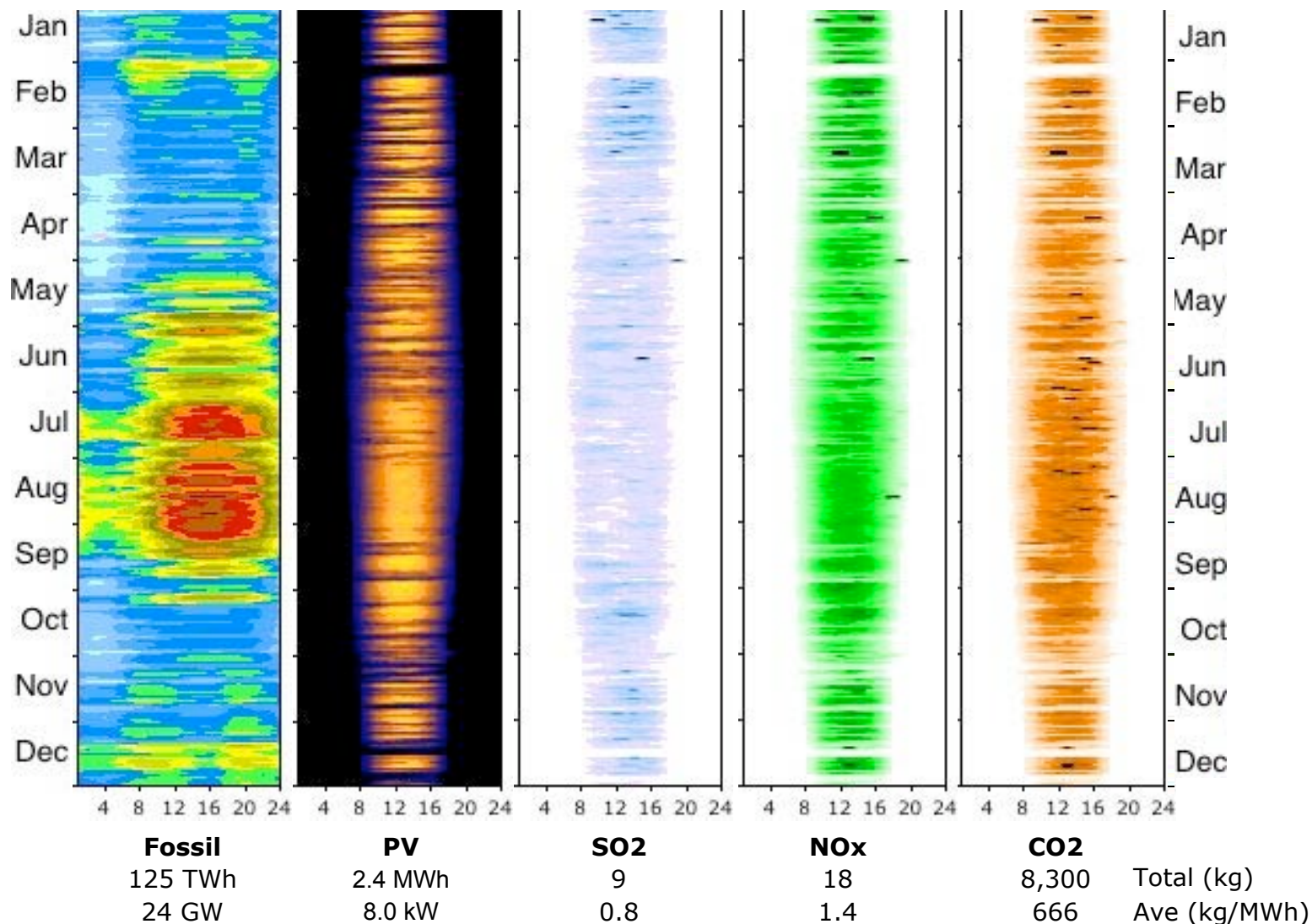


Figure BVII - 14. SPSO – 2000 Fossil Load, Simulated PV, and Offsets per Monitored PV Capacity

All contour plots are for SPSO (Oklahoma) in 2000. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. SEPA PV data is not available after 2000.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
ERCT (Texas) – (365 days x 24 hours)

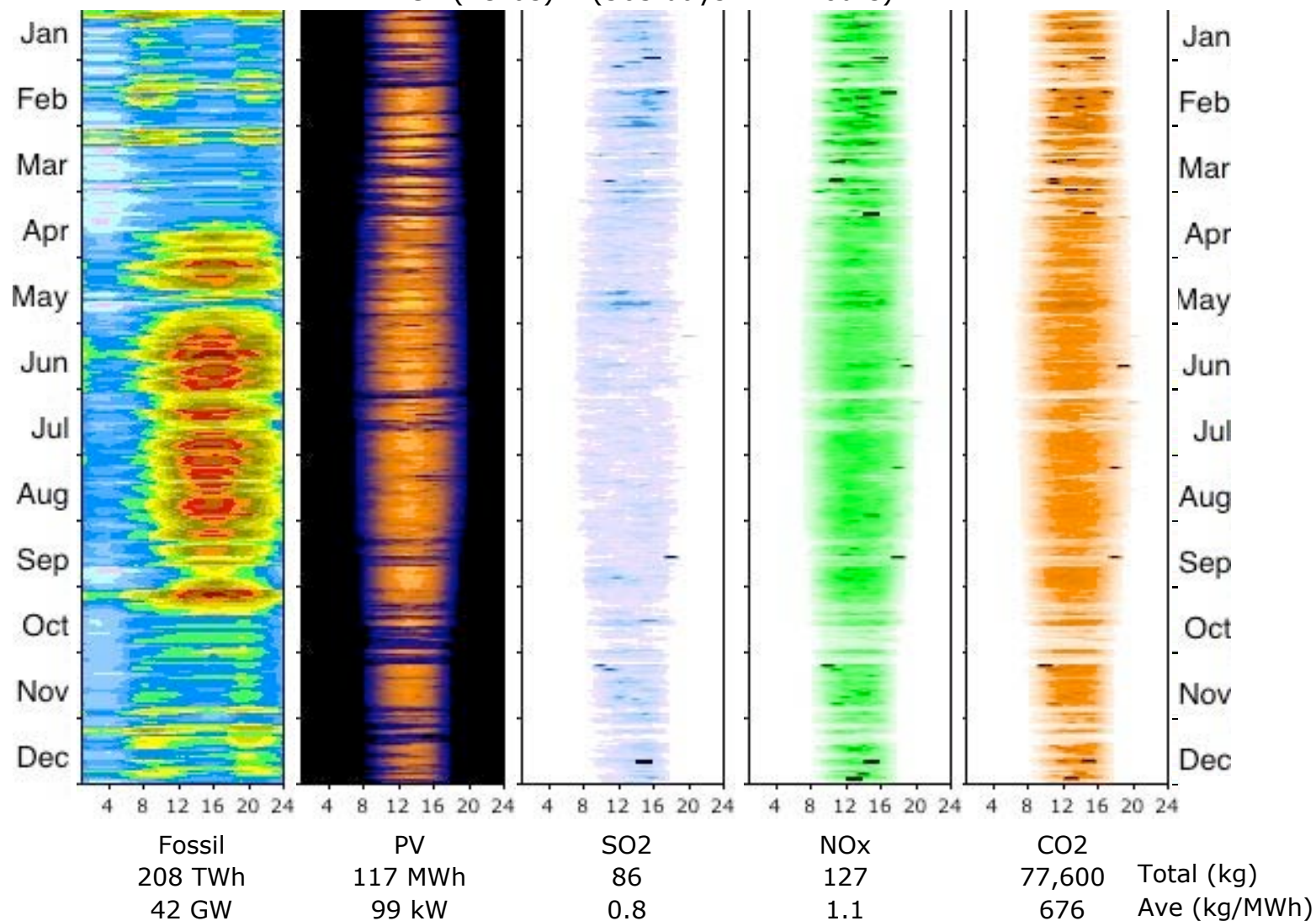


Figure BVII - 15. ERCT – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for ERCT (Texas) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
MAPP (Northern Plains) – (365 days x 24 hours)

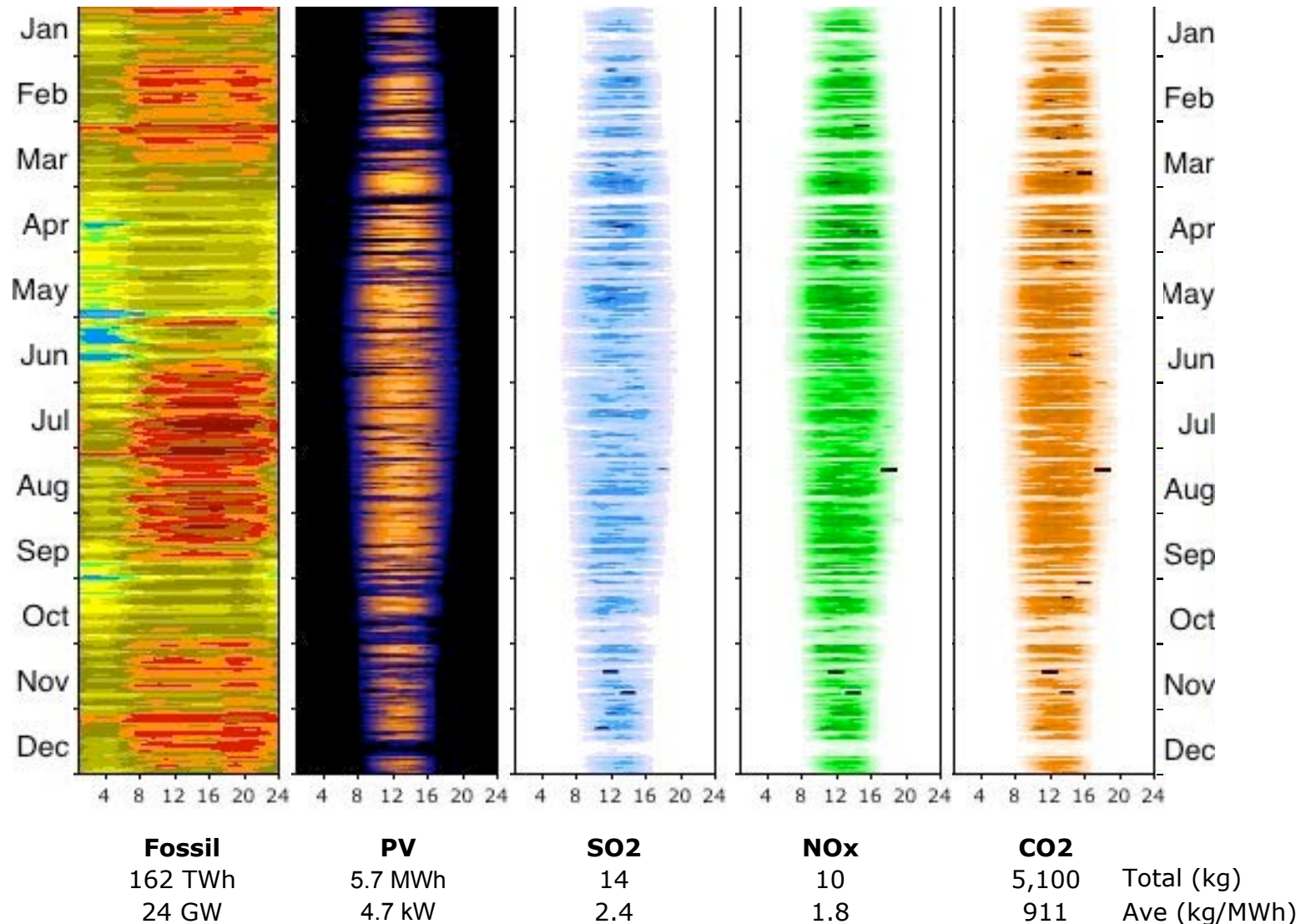


Figure BVII - 16. MAPP – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for MAPP (Northern Plains) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

2001 Fossil Load, PV Generation and Offsets per Monitored PV Capacity
 ROCK (Colorado) – (365 days x 24 hours)

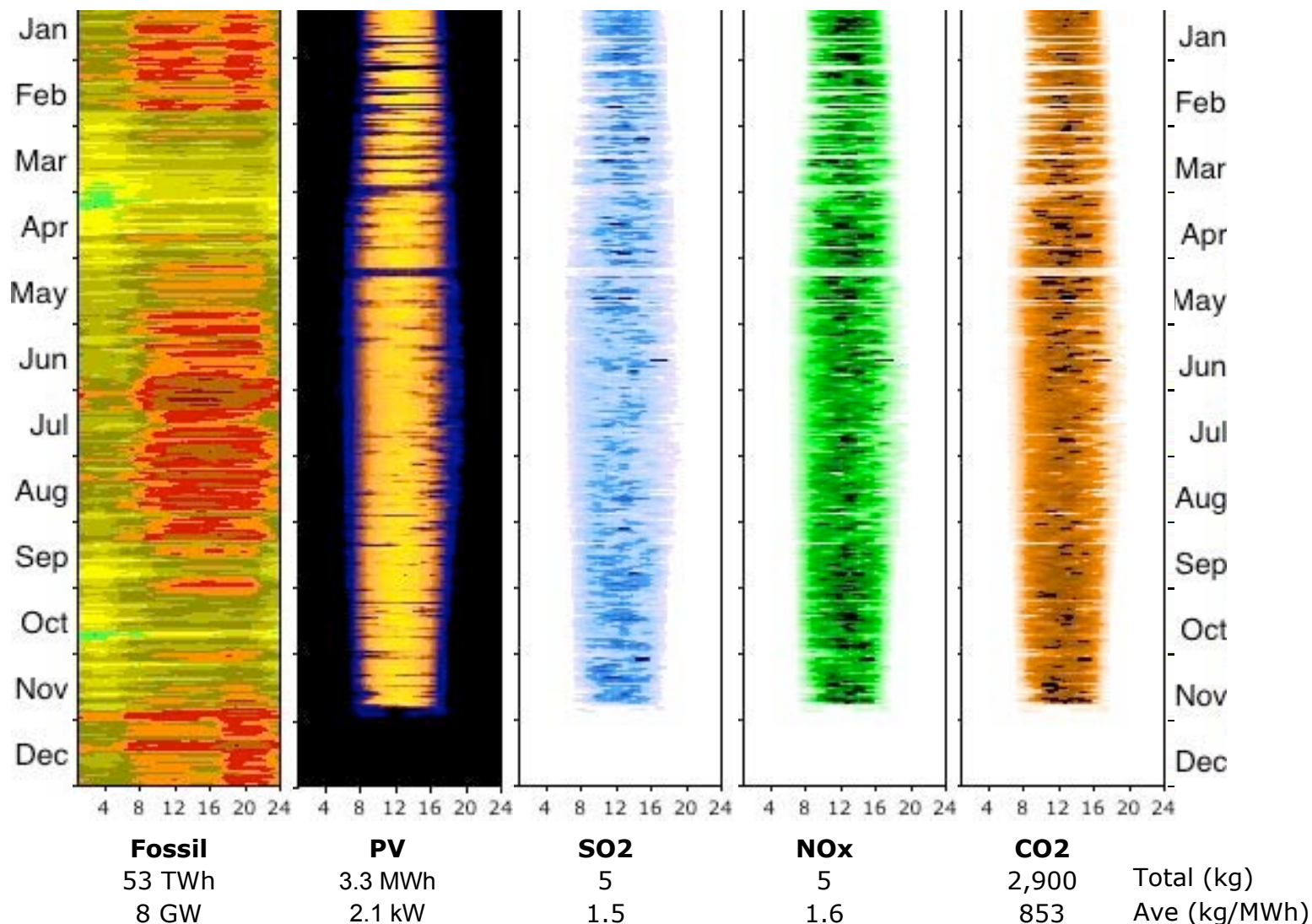


Figure BVII - 17. ROCK – 2001 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for ROCK (Colorado) in 2001. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. SEPA PV data is not available after 2001.

2002 Fossil Load, Simulated PV Generation, and Offsets per Monitored PV Capacity
NWGB (Great Basin) – (365 days x 24 hours)

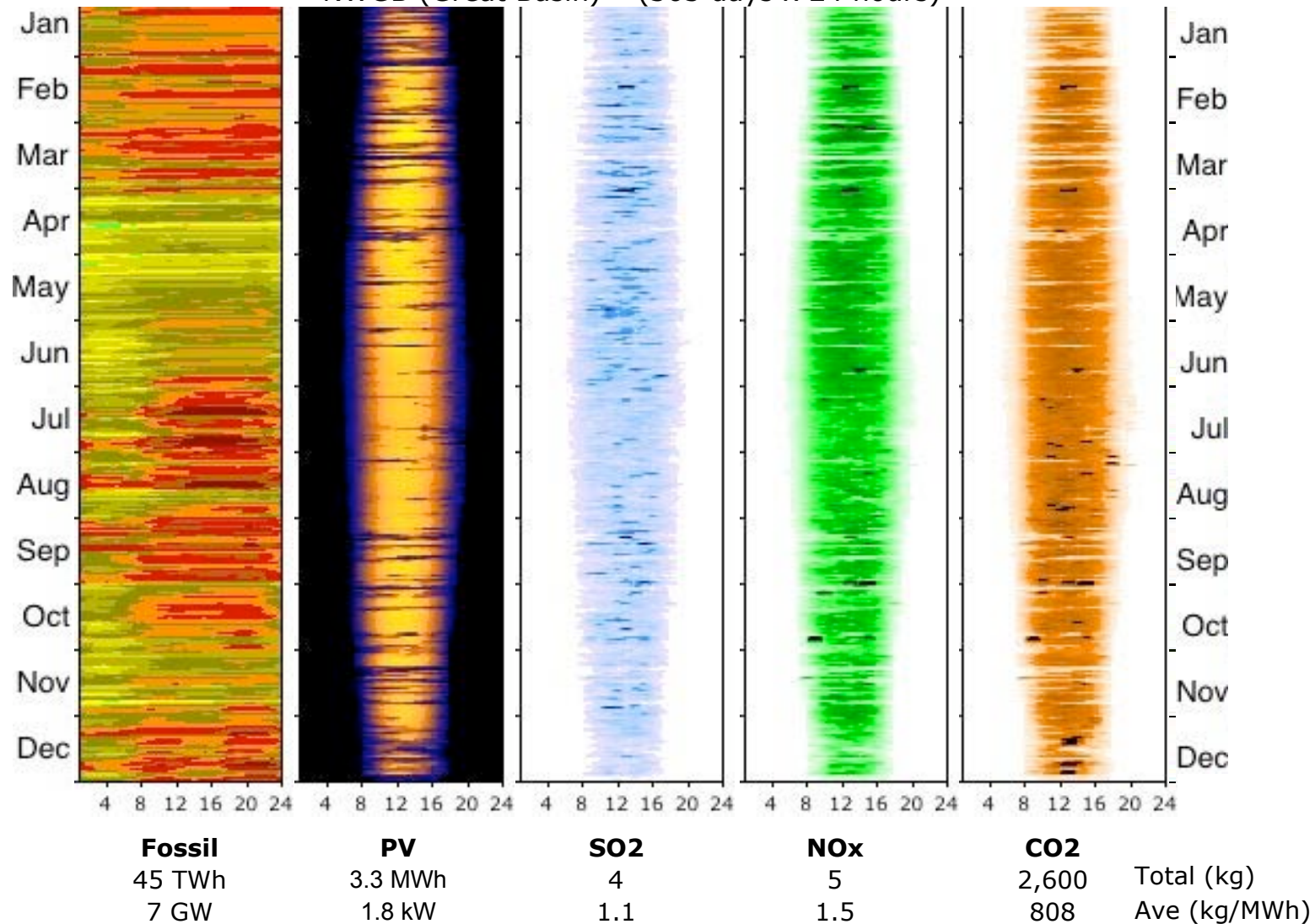


Figure BVII - 18. NWGB – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for NWGB (Great Basin) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. PV data is simulated.

2001 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
NWPN (Pacific Northwest) – (365 days x 24 hours)

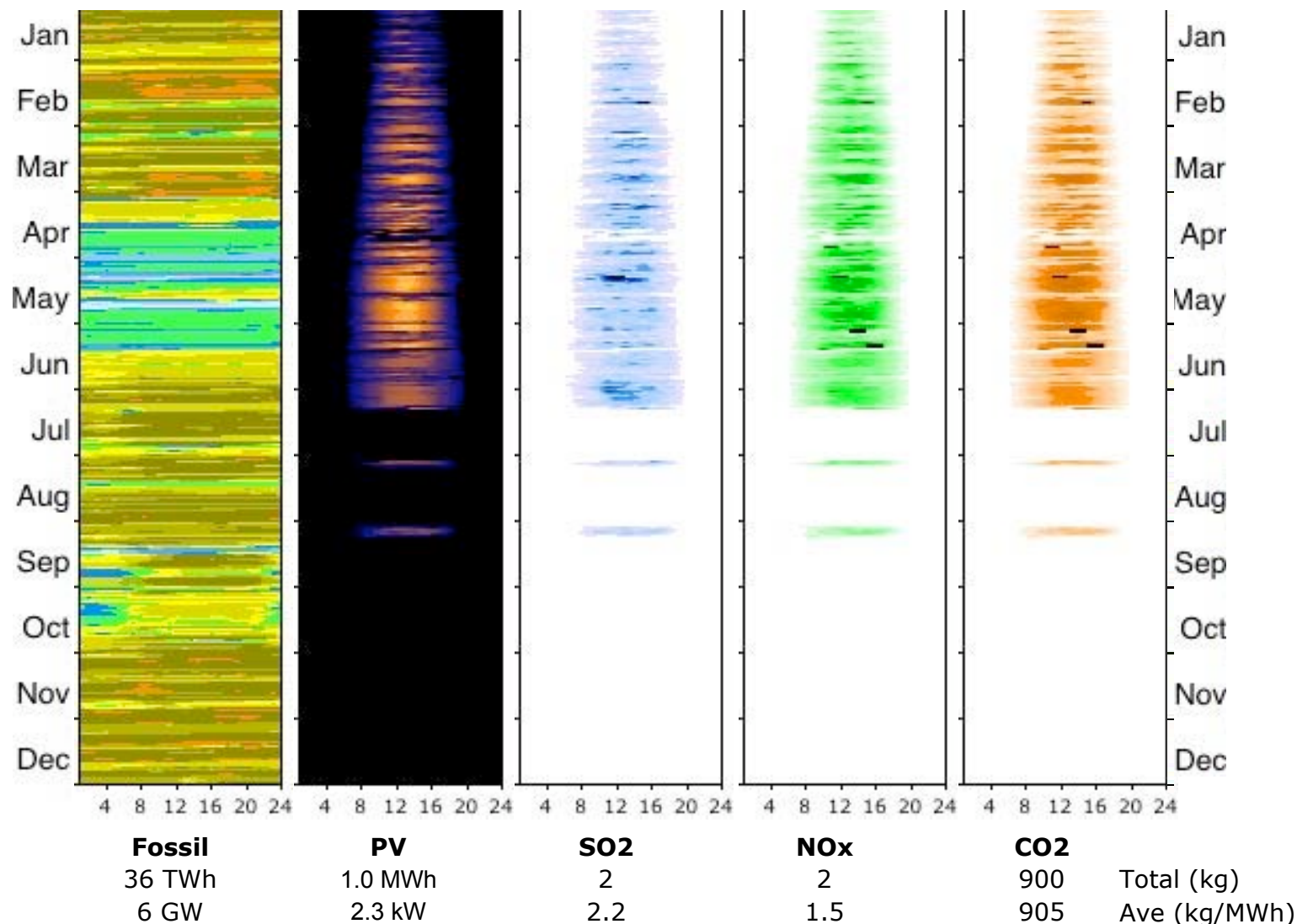


Figure BVII - 19. NWPN – 2001 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for NWPN (Pacific Northwest) in 2001. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. SEPA PV data is not available after 2001.

2001 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
WSSW (Southwest) – (365 days x 24 hours)

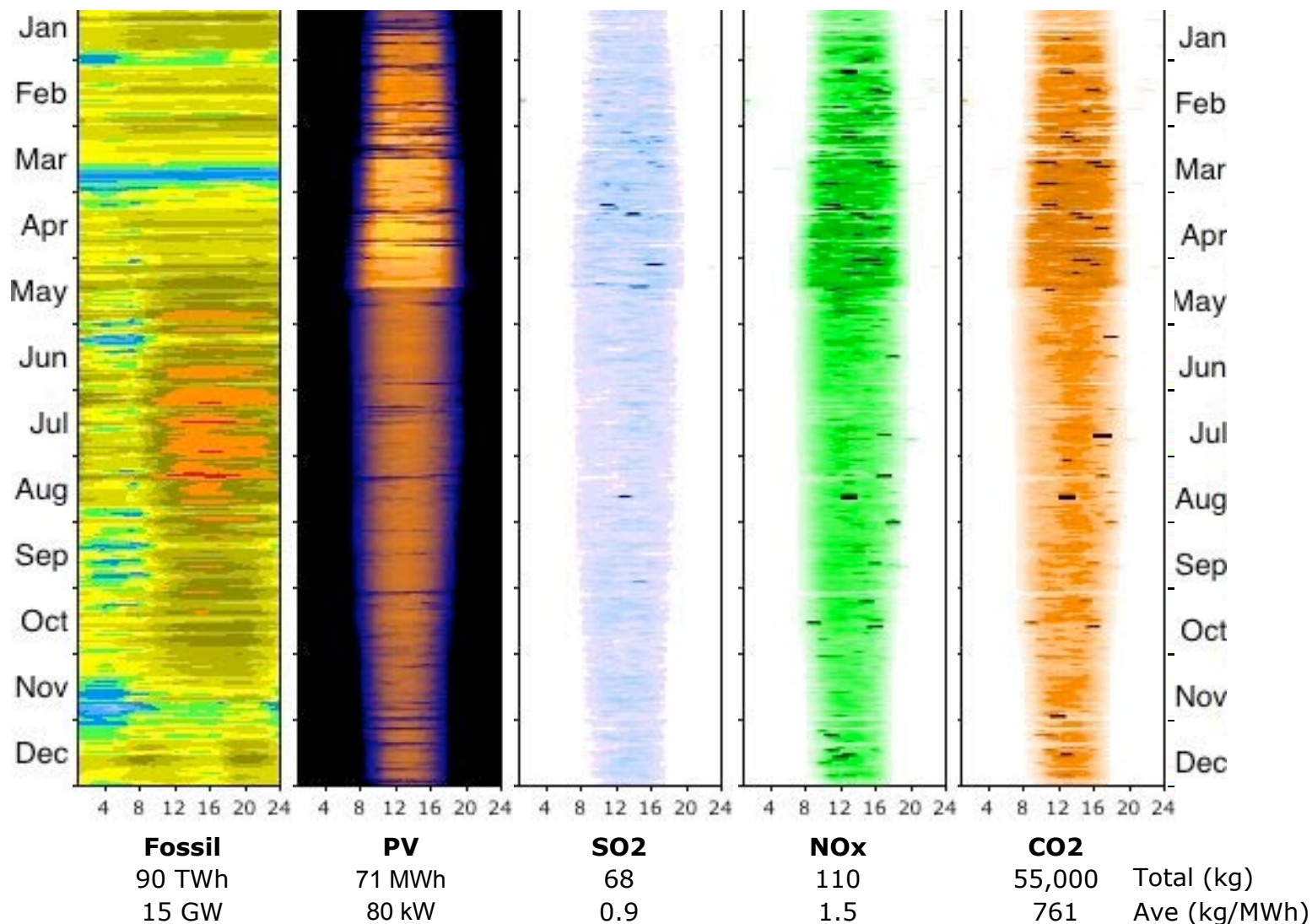


Figure BVII - 20. WSSW – 2001 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for WSSW (Southwest) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission. SEPA data is most complete for 2001.

2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity
CALI (California) – (365 days x 24 hours)

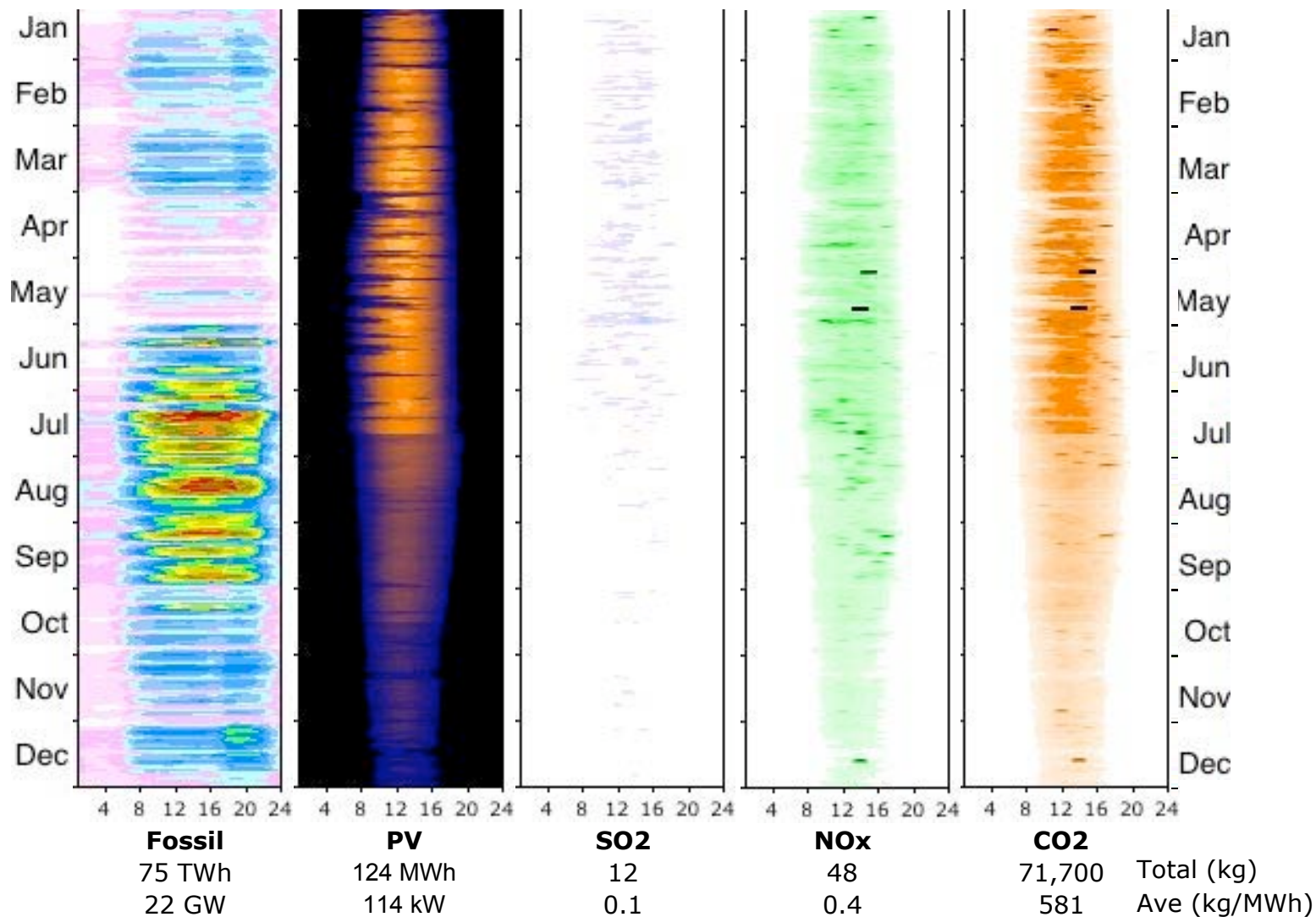


Figure BVII - 21. CALI – 2002 Fossil Load, PV Generation, and Offsets per Monitored PV Capacity

All contour plots are for CALI (California) in 2002. eGrid fossil load is normalized to its 2002 peak. Offsets are per monitored PV capacity in the hour and for load shape following generation. Annual total and peak generation are noted for eGrid fossil and PV generation, as are total emission offsets and average offsets per MWh of PV generation for each emission.

Appendix B Section VIII – Monthly Simulated PV Generation, Emissions Rates, and Offsets by Fuel Class

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Simulated PV Generation and Emission Offsets – NEWE, 2002

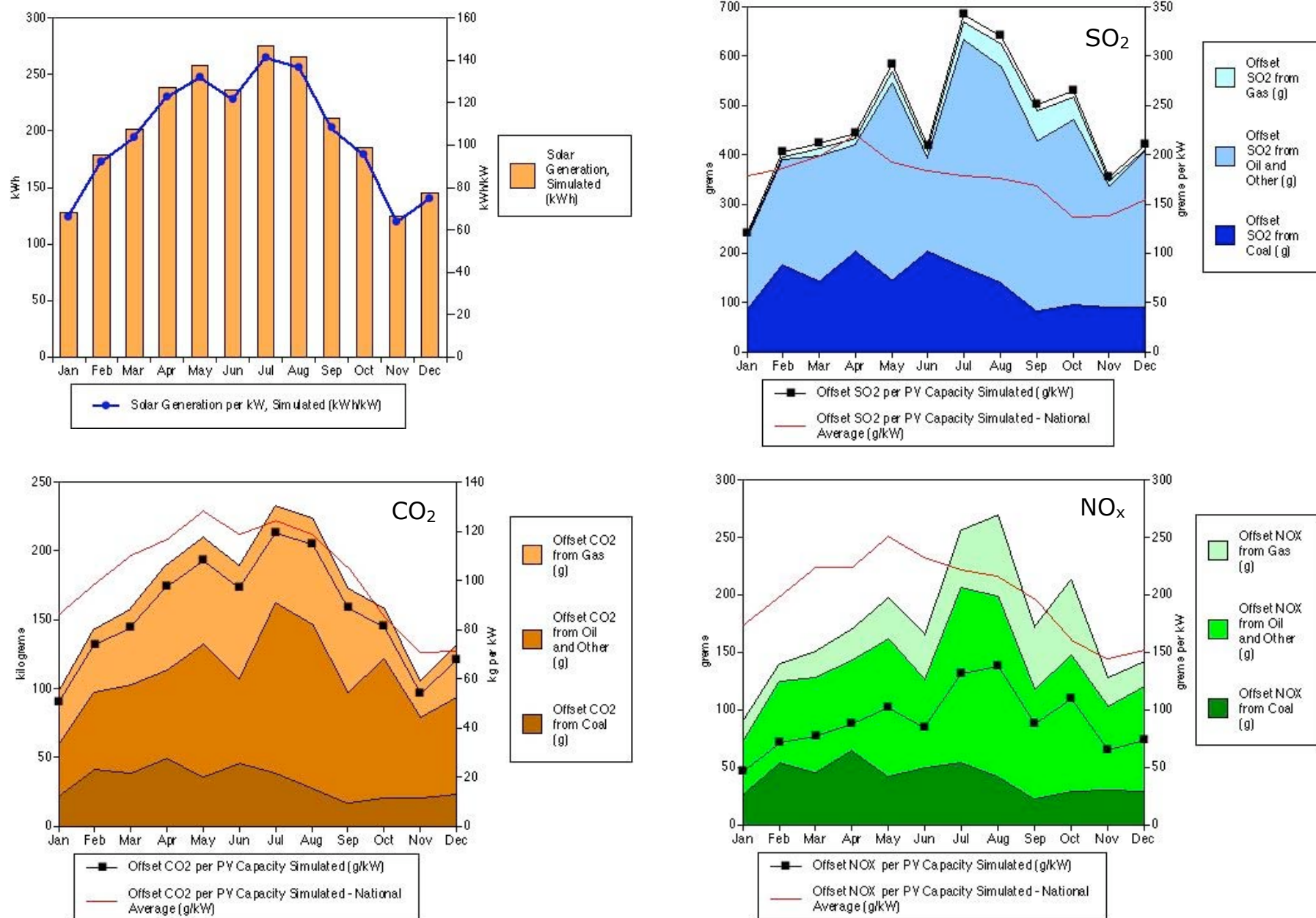


Figure BVIII - 1 Emission Offsets by Month, NEWE (New England) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – NYAS, 2002

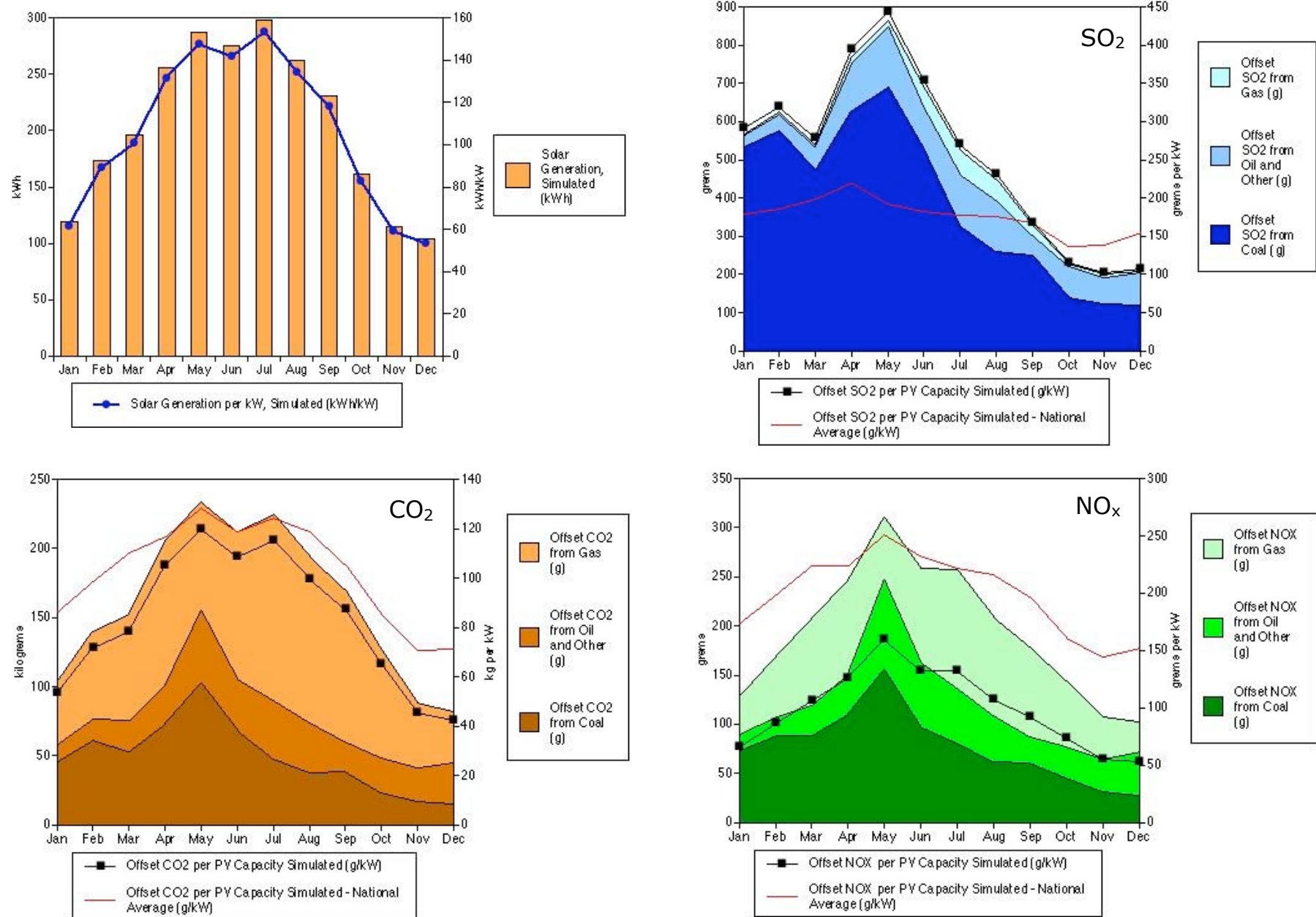


Figure BVIII - 2 Emission Offsets by Month, NYAS (New York) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – MAAC, 2002

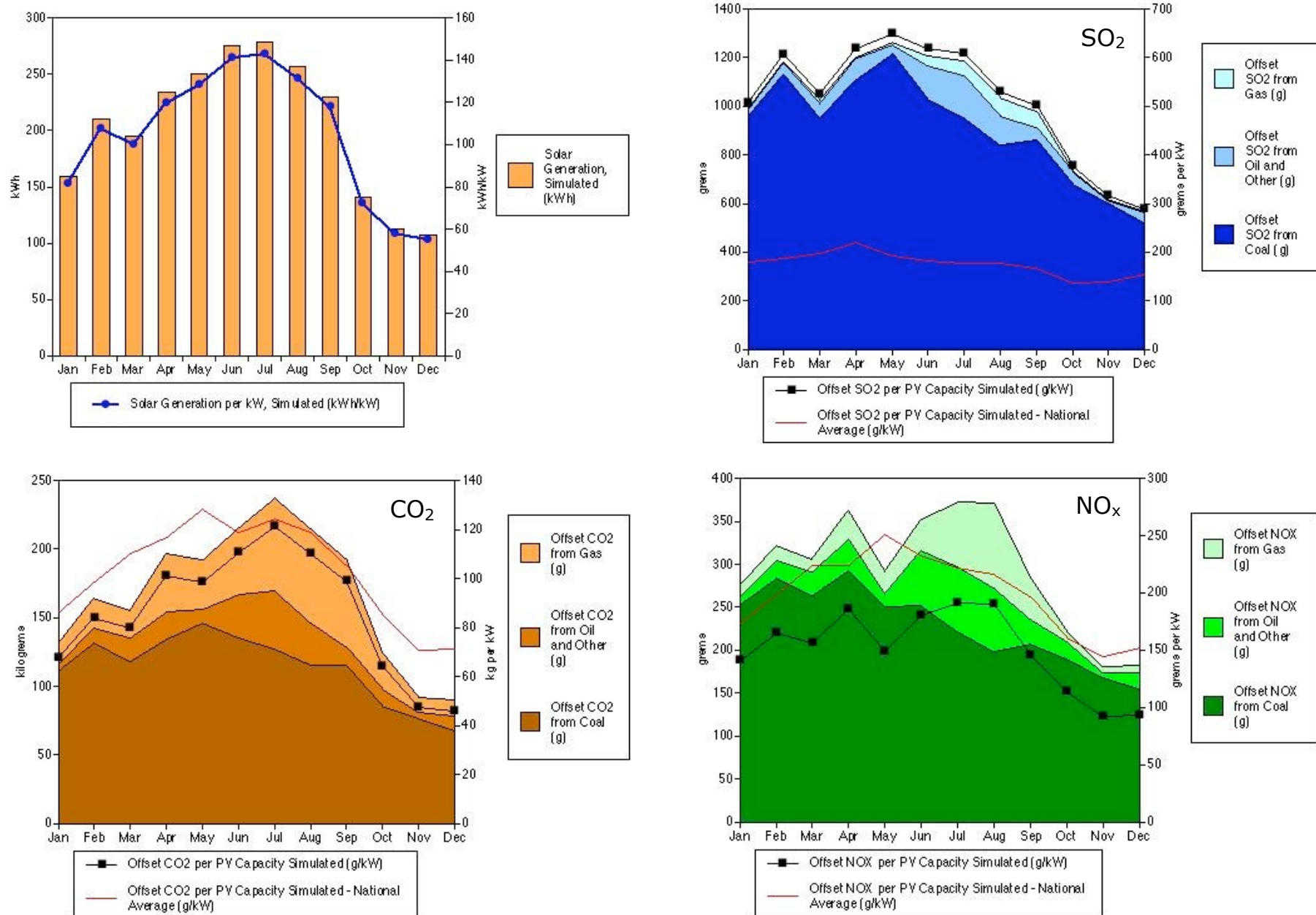


Figure BVIII - 3 Emission Offsets by Month, MAAC (Mid-Atlantic) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – ECOV, 2002

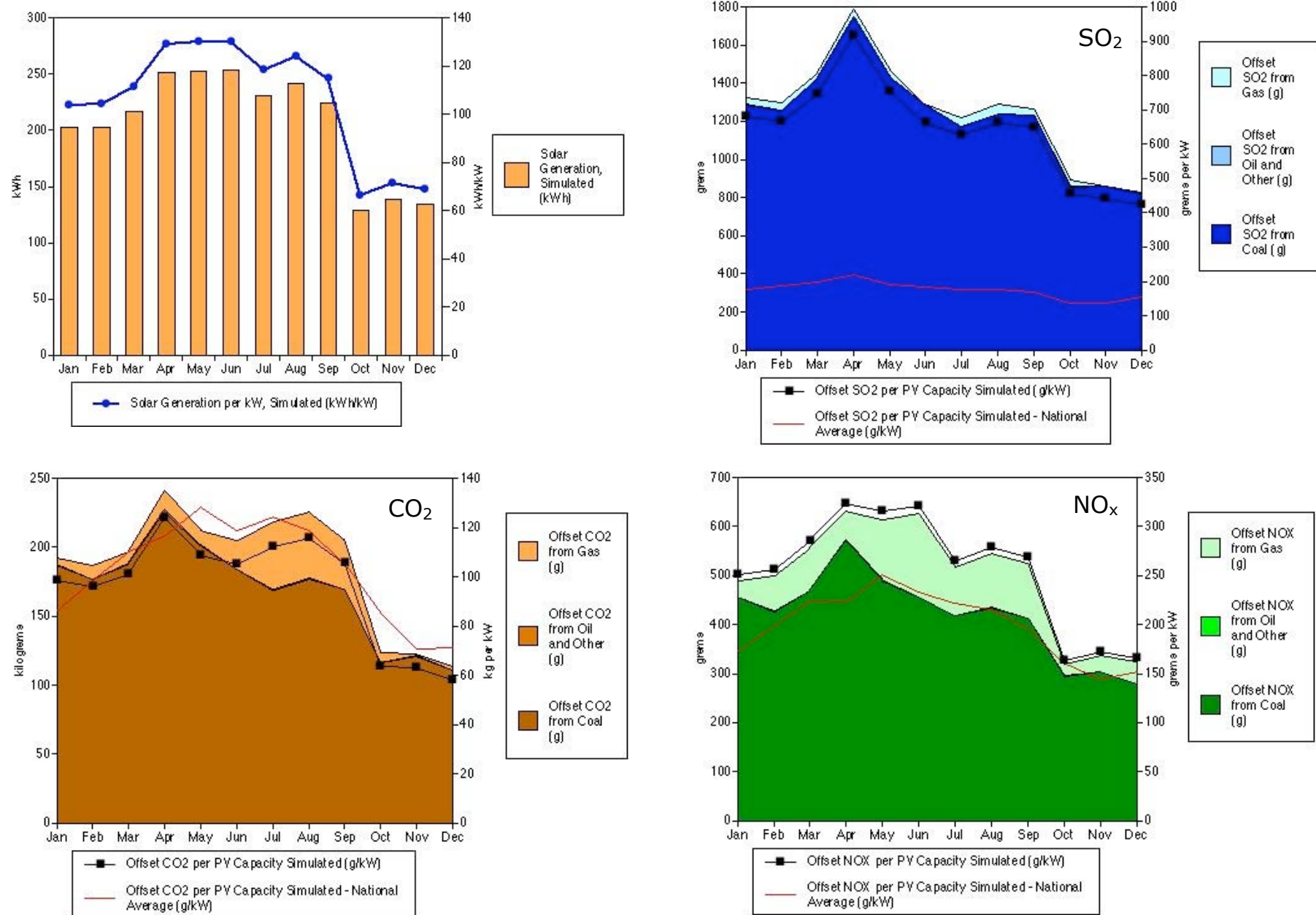


Figure BVIII - 4 Emission Offsets by Month, ECOV (Ohio Valley) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated Generation and Emission Offsets – ECMI, 2002

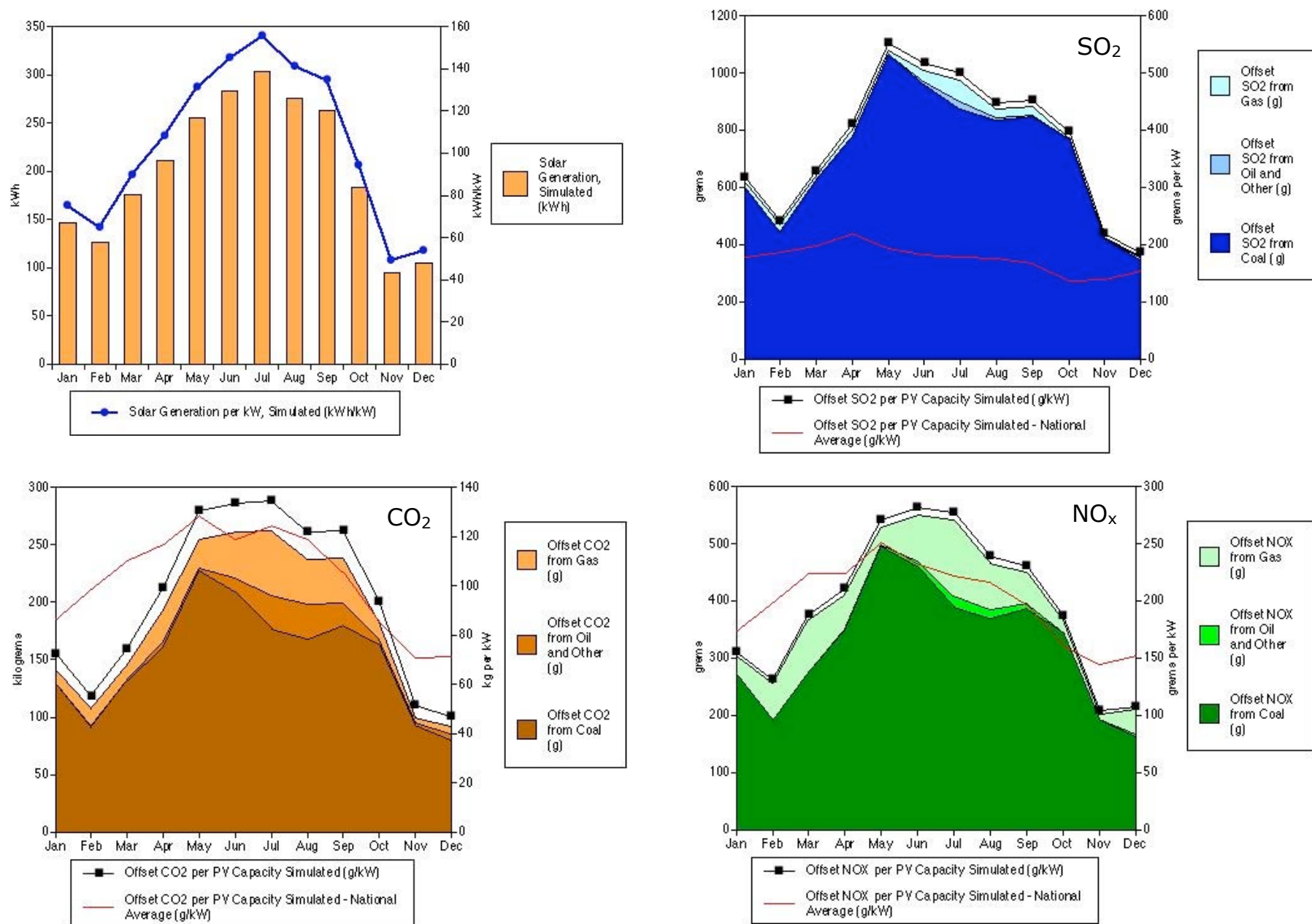


Figure BVIII - 5 Emission Offsets by Month, ECMI (Michigan) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – SRVC, 2002

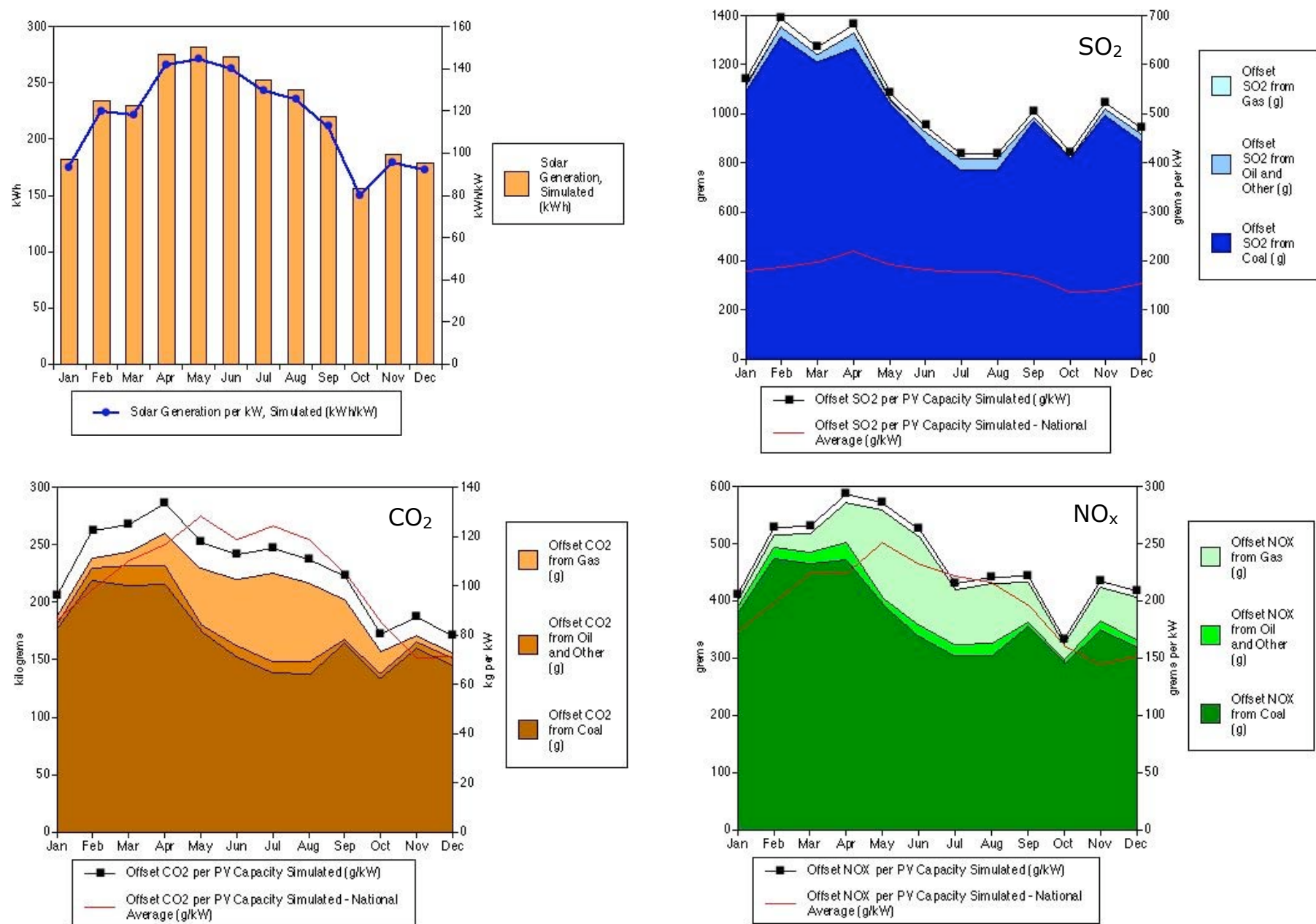


Figure BVIII - 6 Emission Offsets by Month, SRVC (Virginia/Carolinas) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – SRTV, 2002

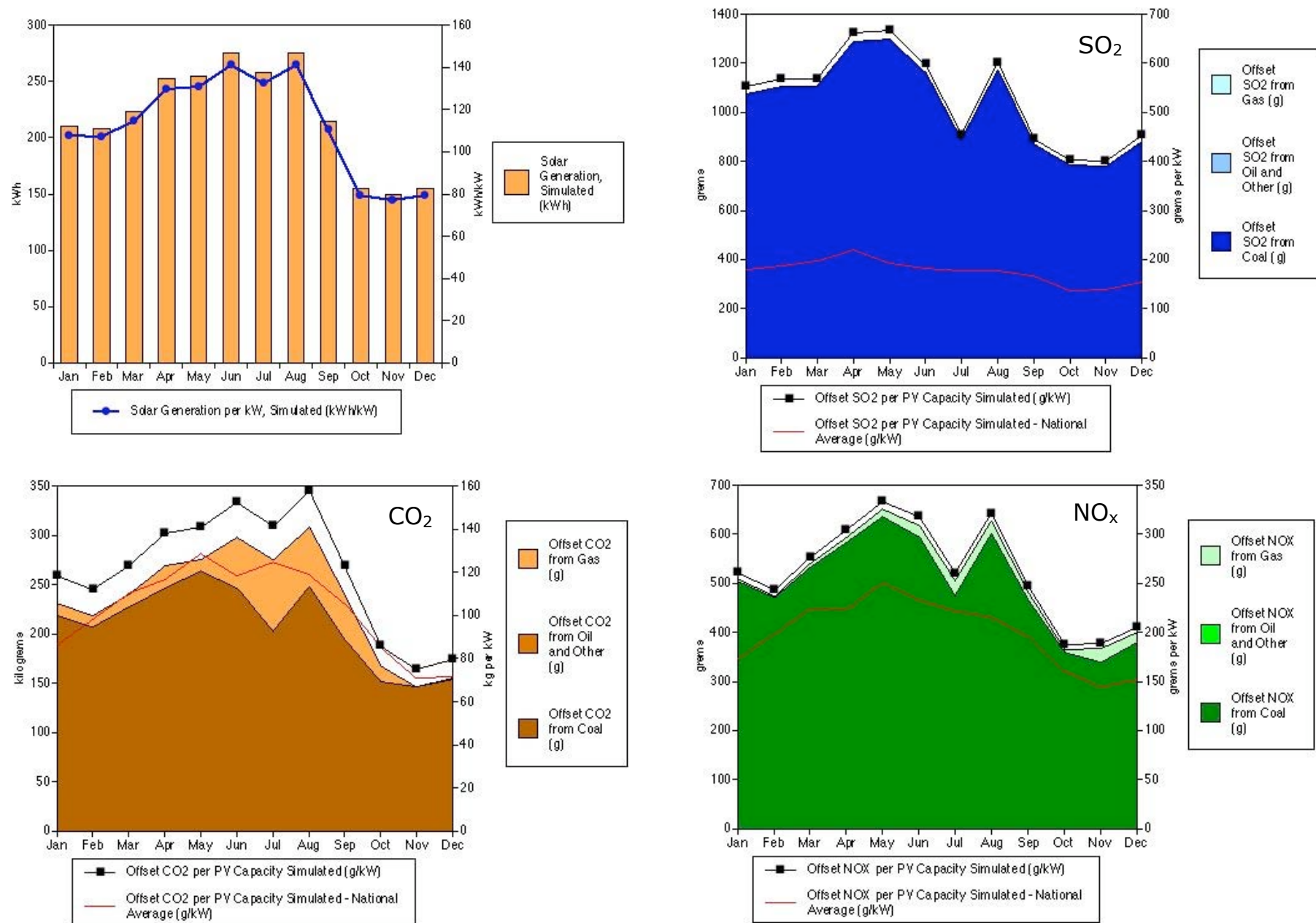


Figure BVIII - 7 Emission Offsets by Month, SRTV (Tennessee Valley) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – SRSO, 2002

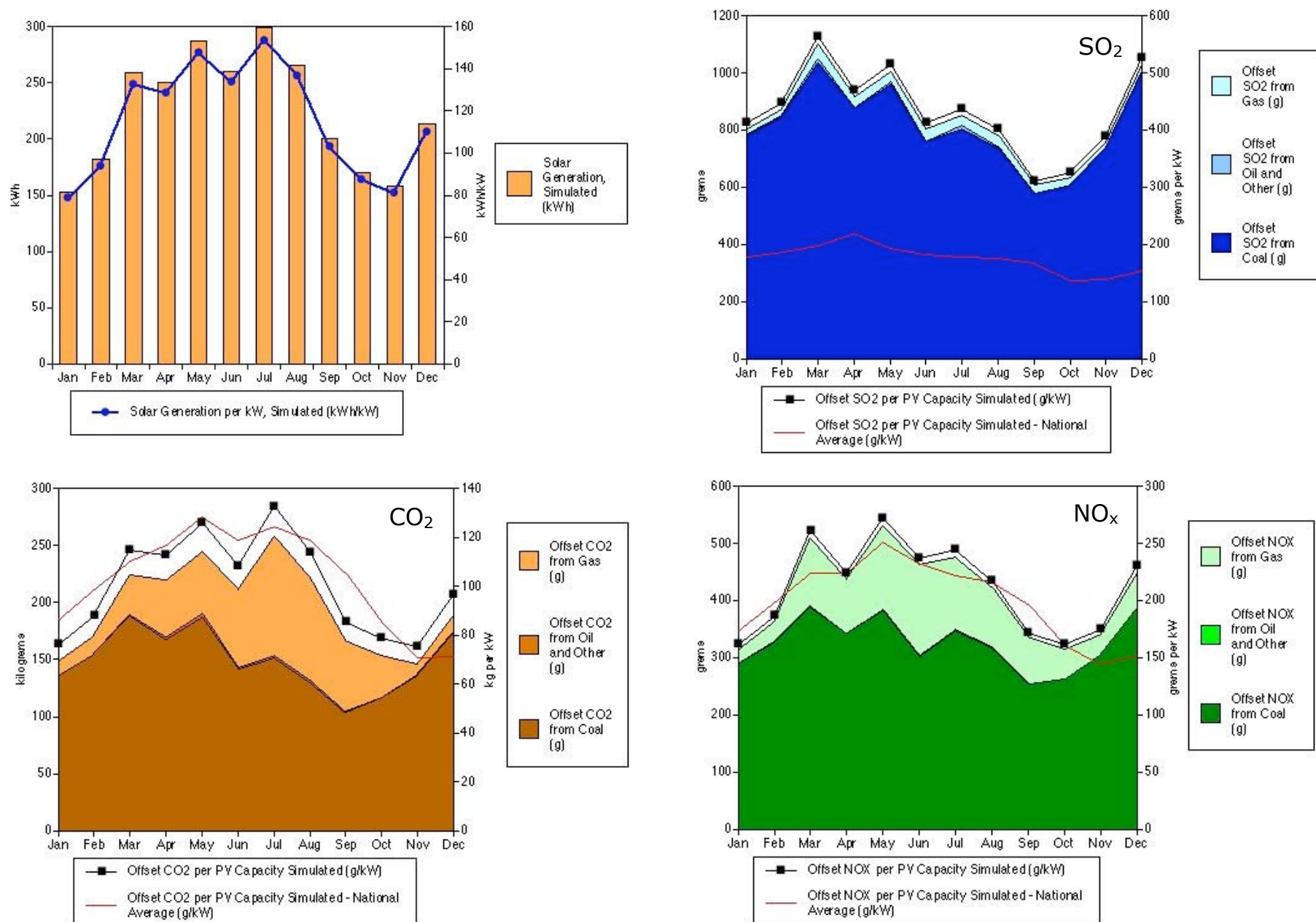


Figure BVIII - 8 Emission Offsets by Month, SRSO (Southeast) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – SRMV, 2002

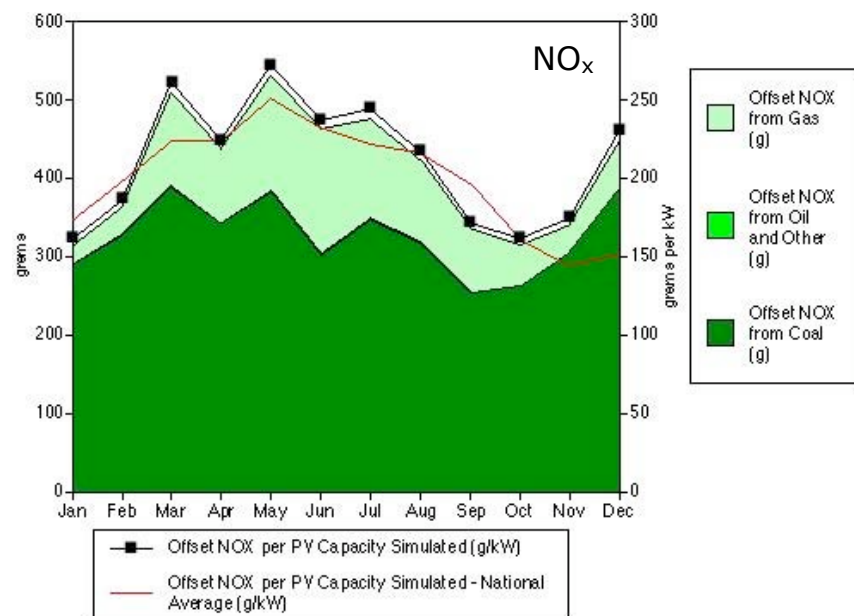
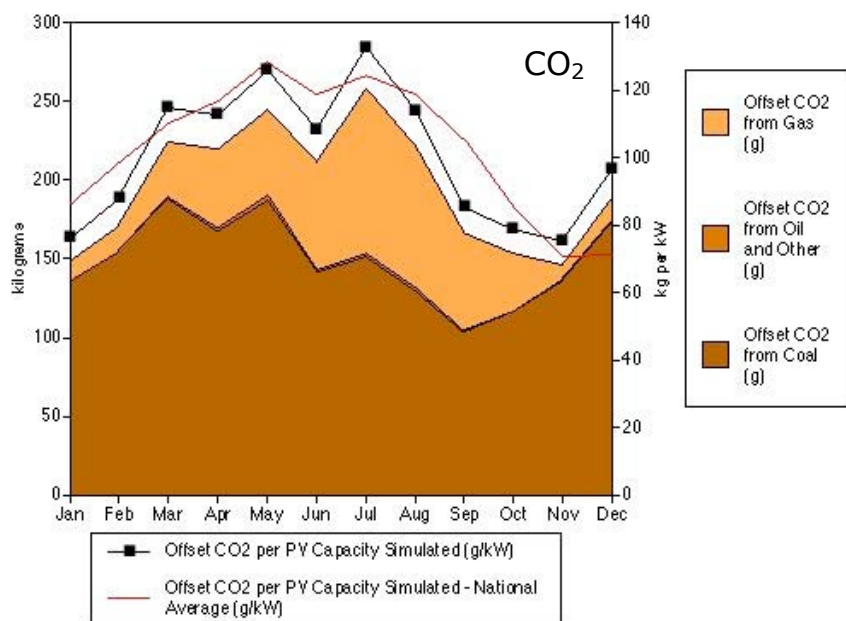
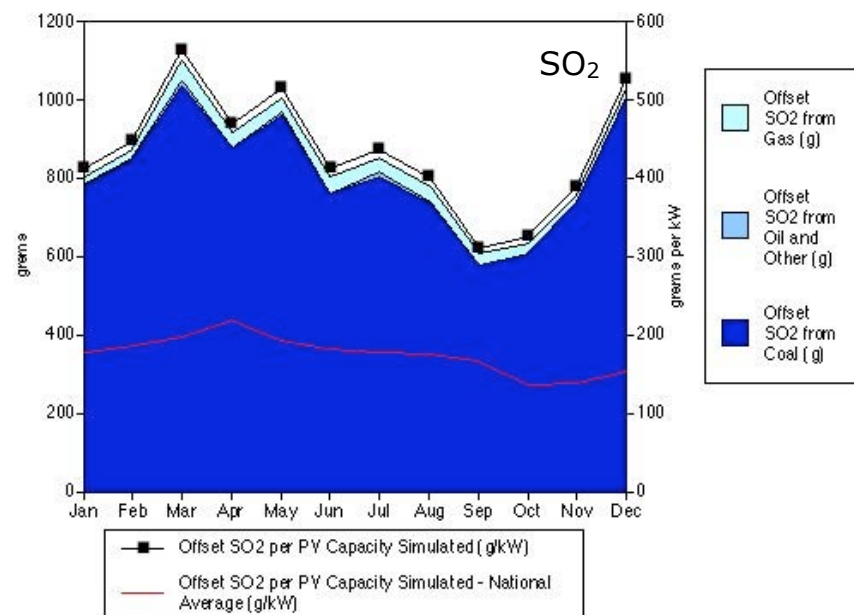
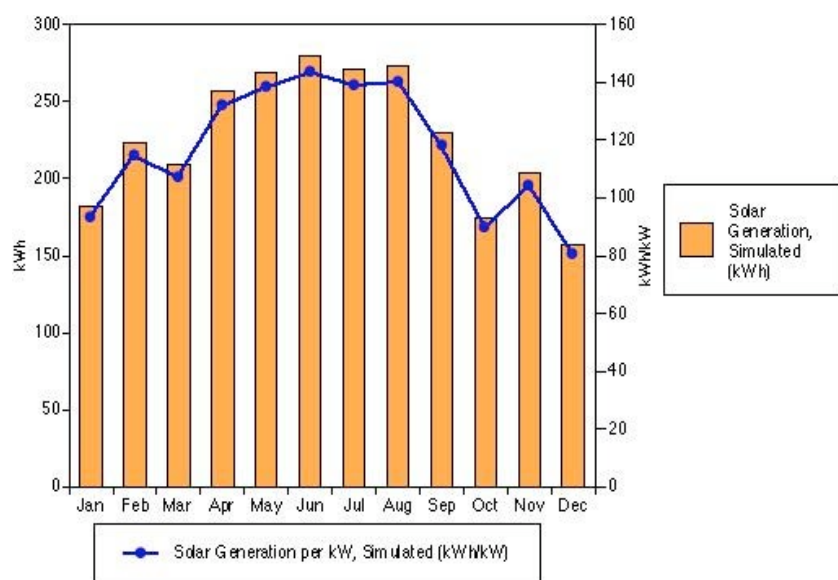


Figure BVIII - 9 Emission Offsets by Month, SRMV (Mississippi Valley) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – FRCC, 2002

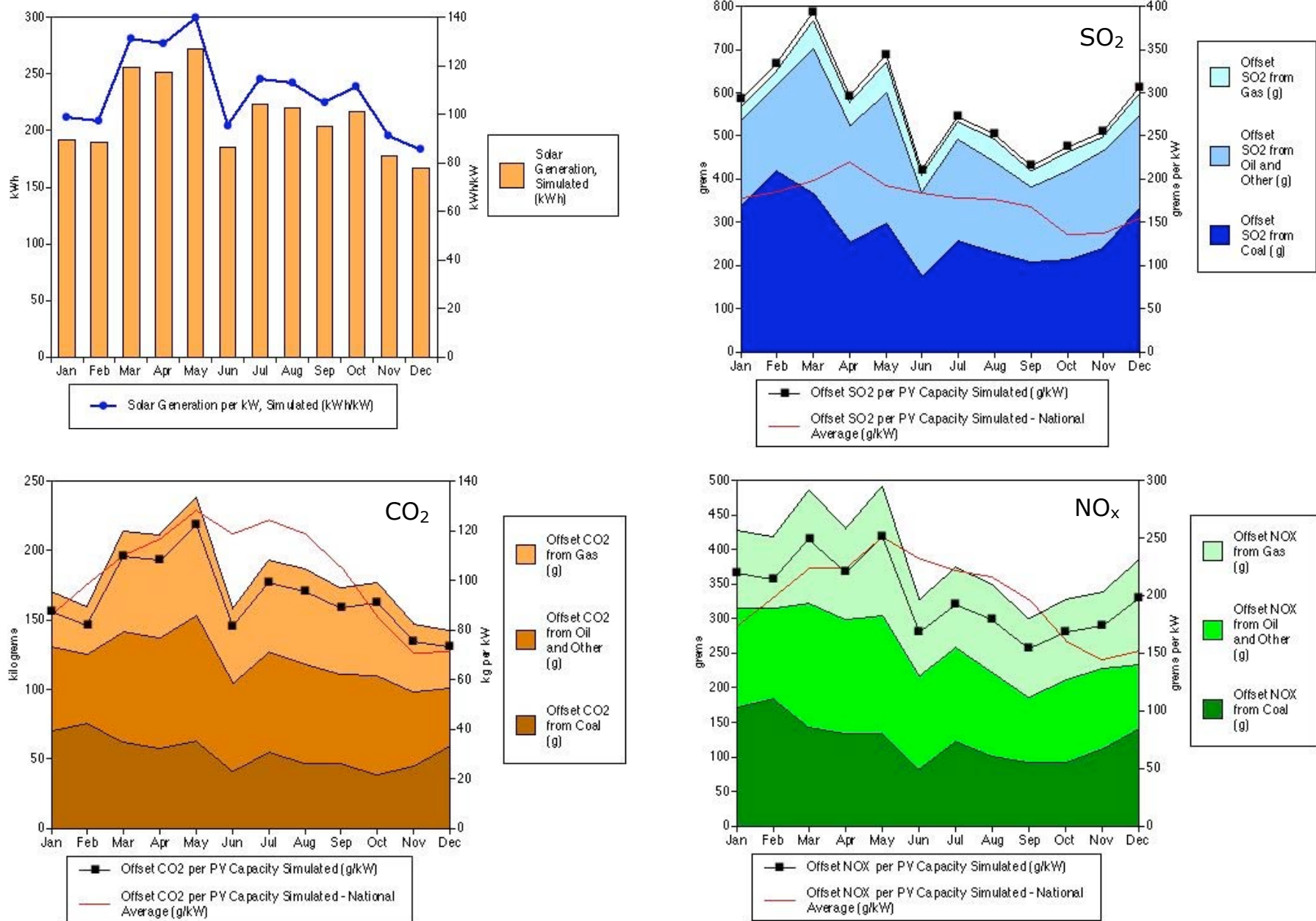


Figure BVIII - 10 Emission Offsets by Month, FRCC (Florida) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – MANN, 2002

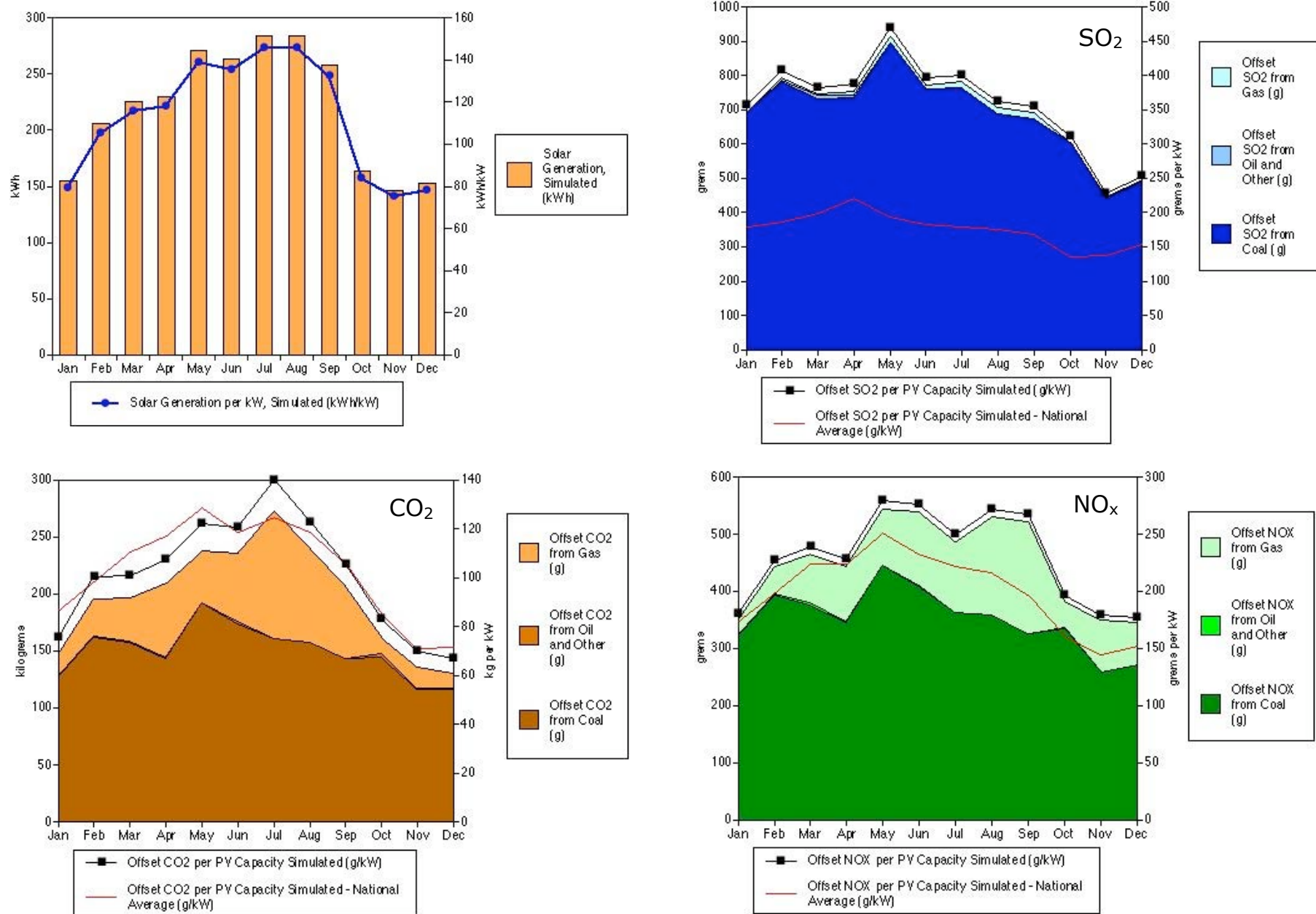


Figure BVIII - 11 Emission Offsets by Month, MANN (Wisconsin) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – MANS, 2002

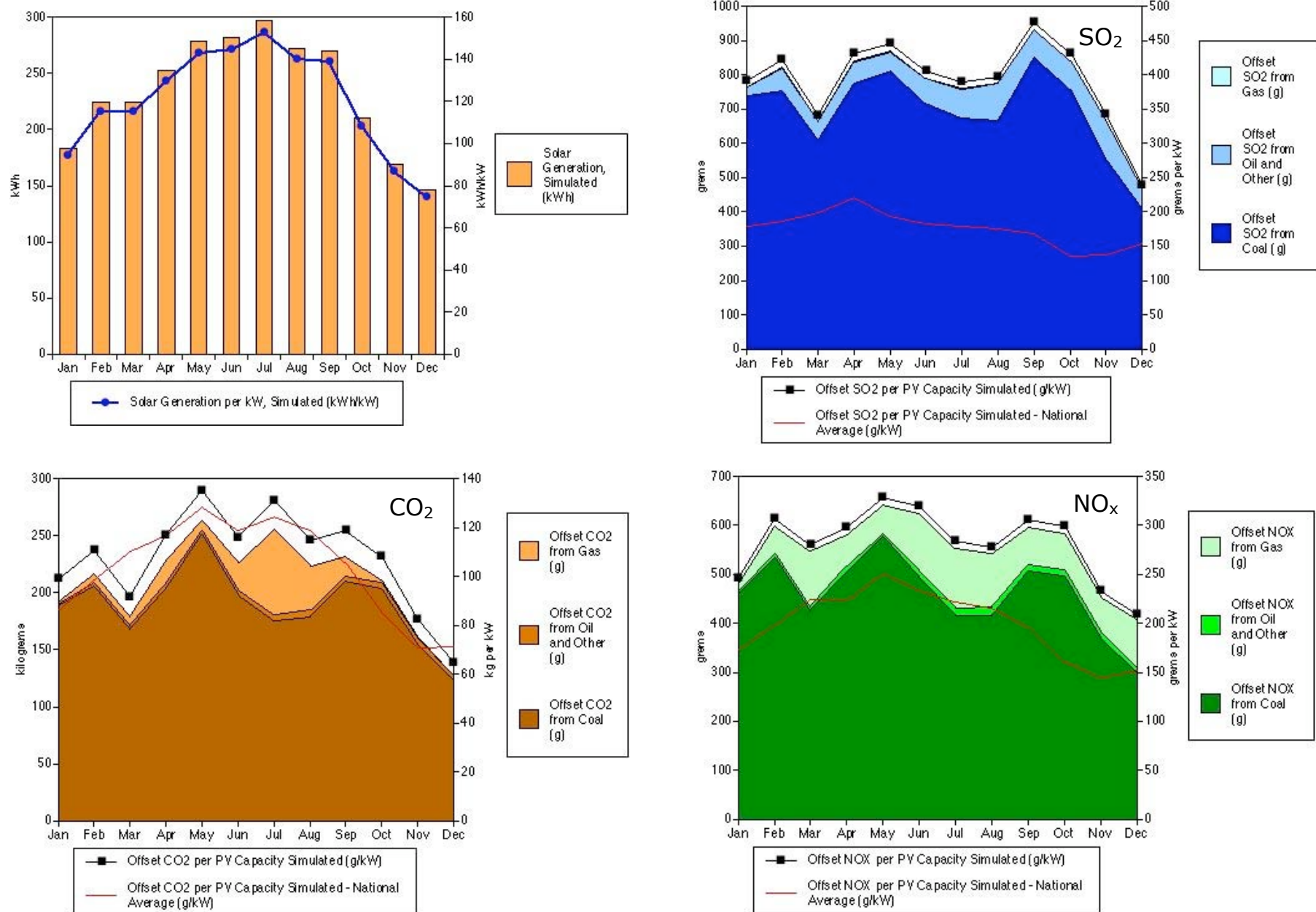


Figure BVIII - 12 Emission Offsets by Month, MANS (Illinois) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – SPNO, 2002

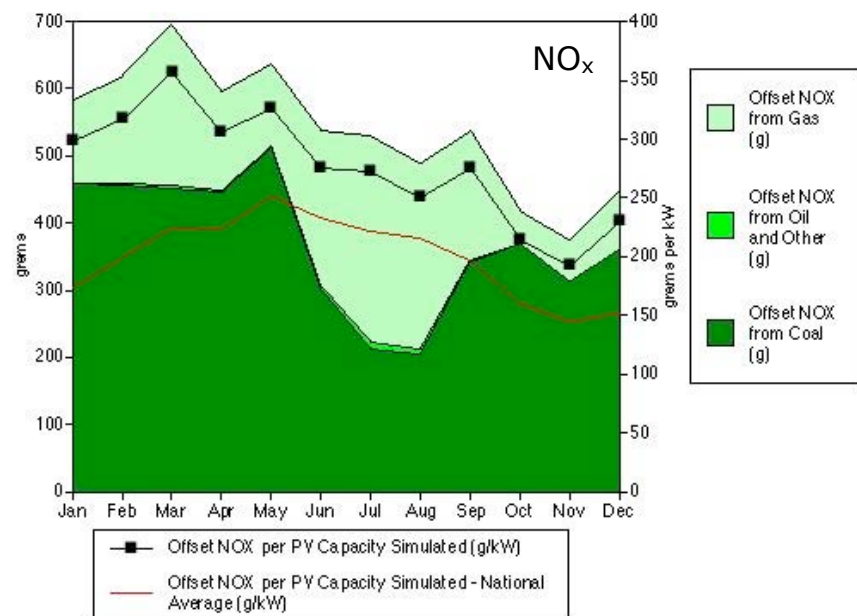
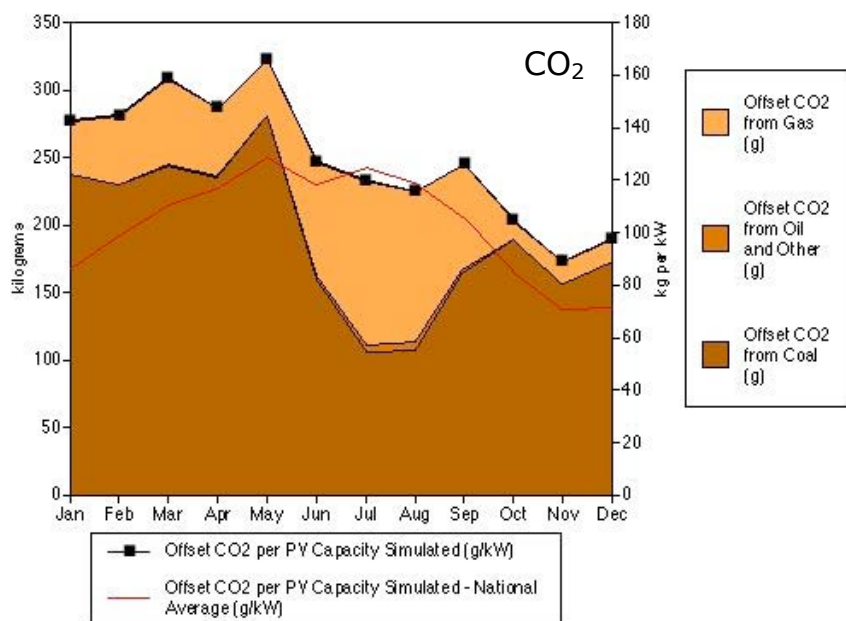
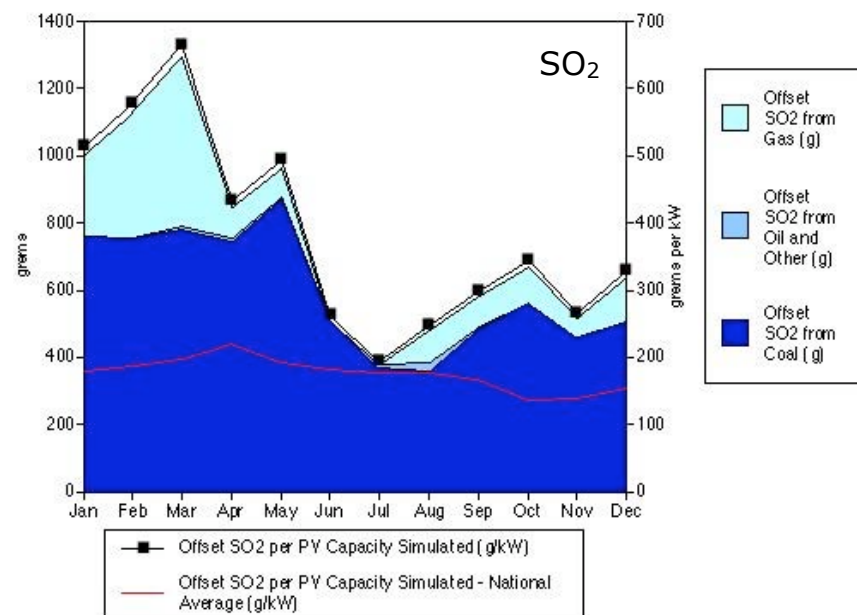
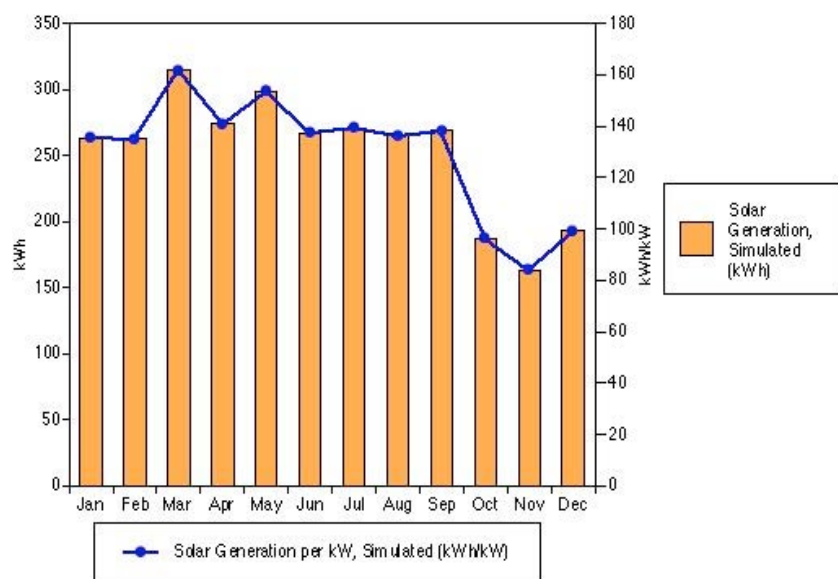


Figure BVIII - 13 Emission Offsets by Month, SPNO (Kansas) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – SPSO, 2002

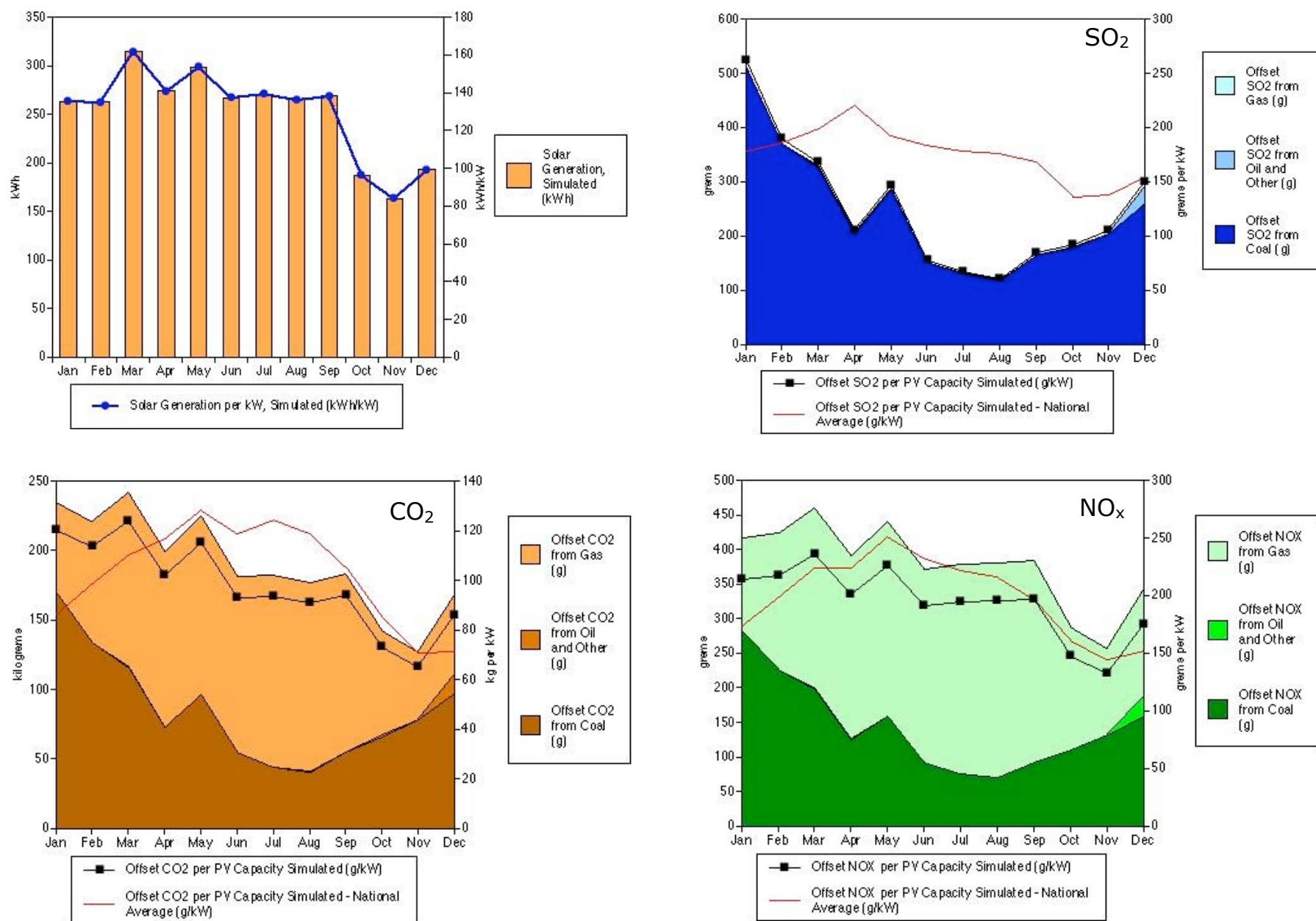


Figure BVIII - 14 Emission Offsets by Month, SPSO (Oklahoma) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – ERCT, 2002

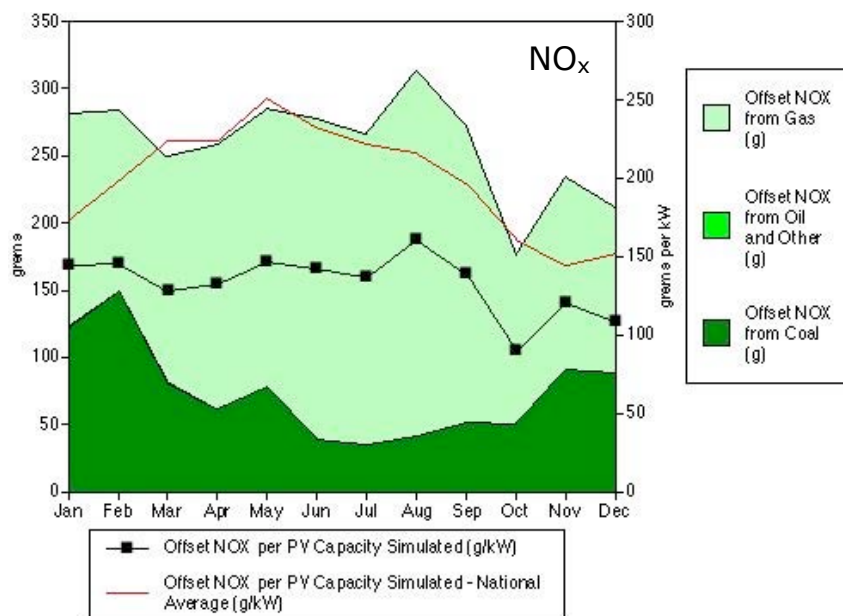
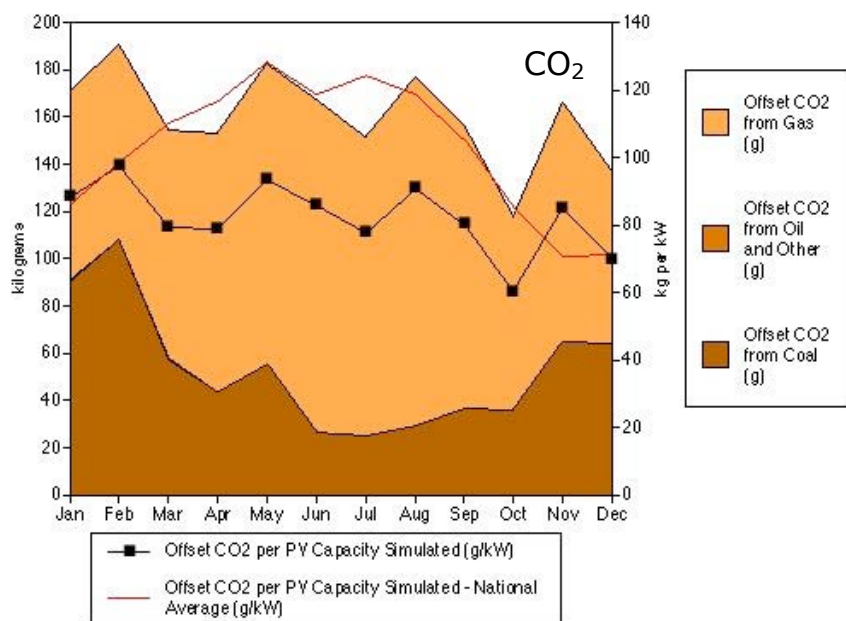
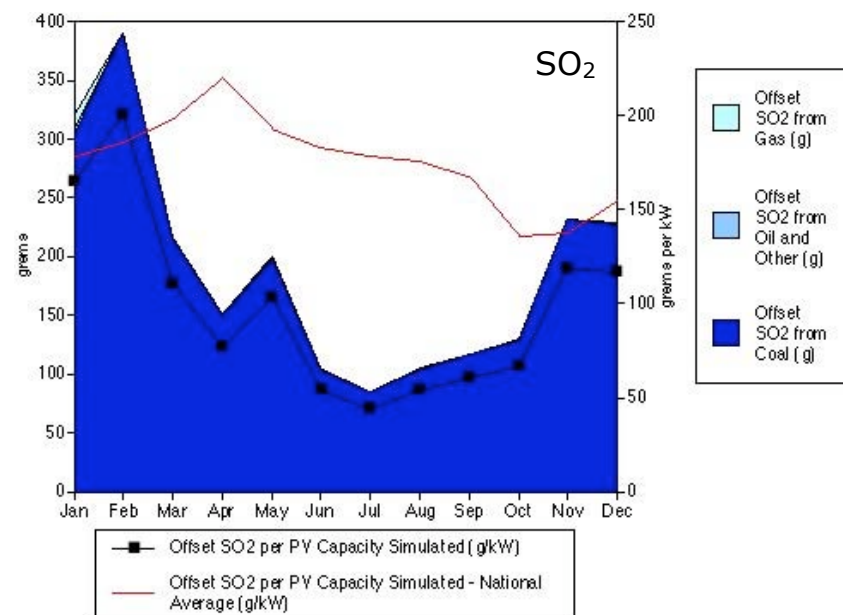
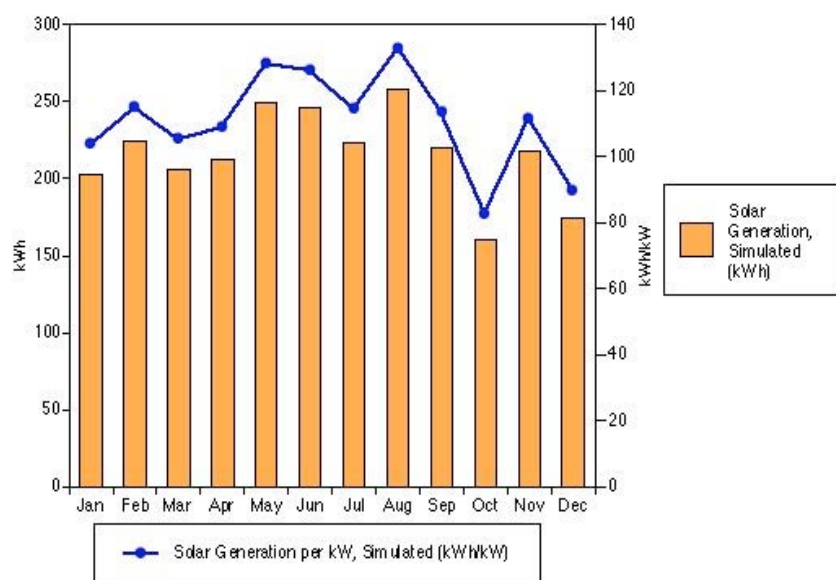


Figure BVIII - 15 Emission Offsets by Month, ERCT (Texas) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – MAPP, 2002

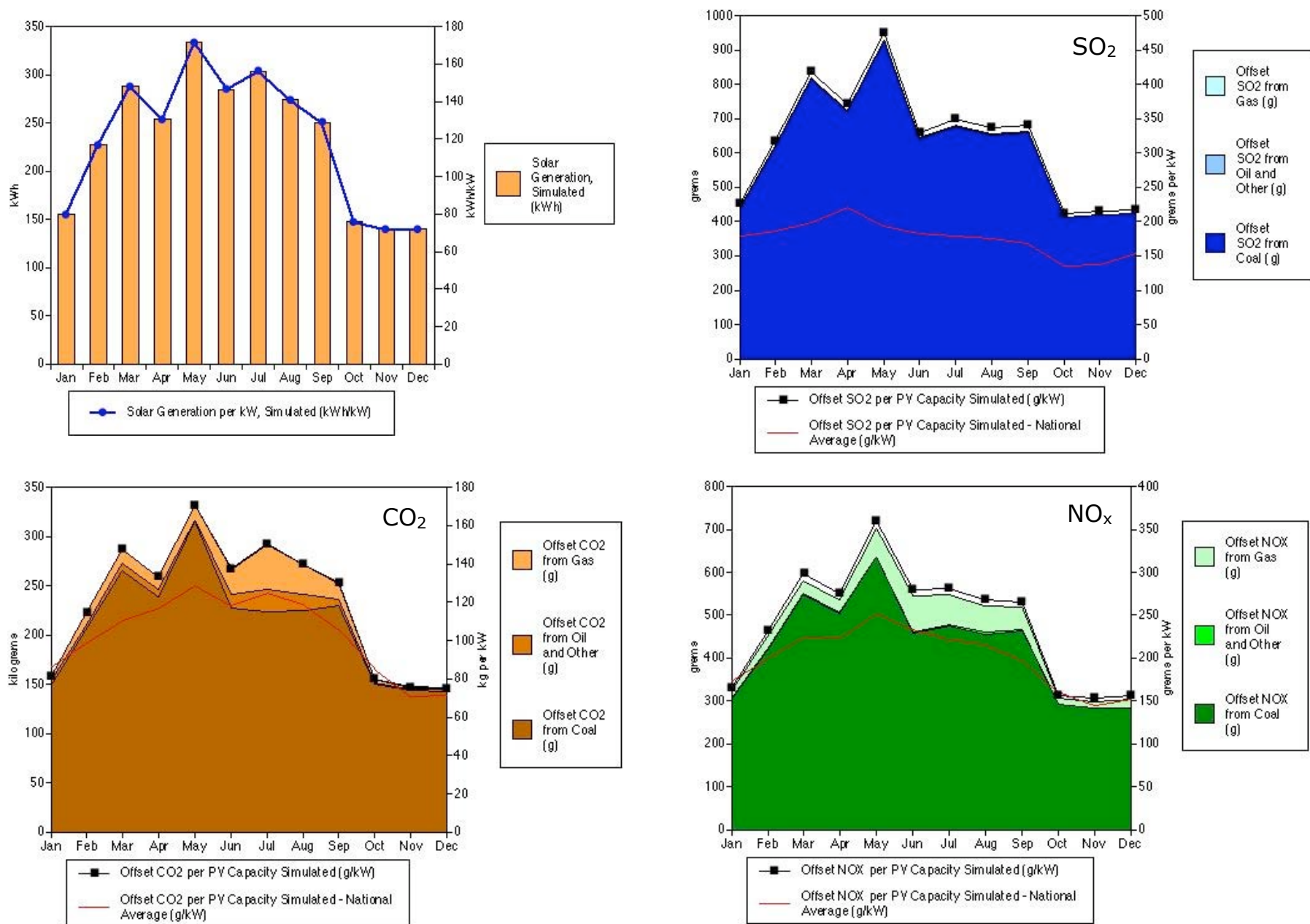


Figure BVIII - 16 Emission Offsets by Month, MAPP (Great Plains) in 2001

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – ROCK, 2002

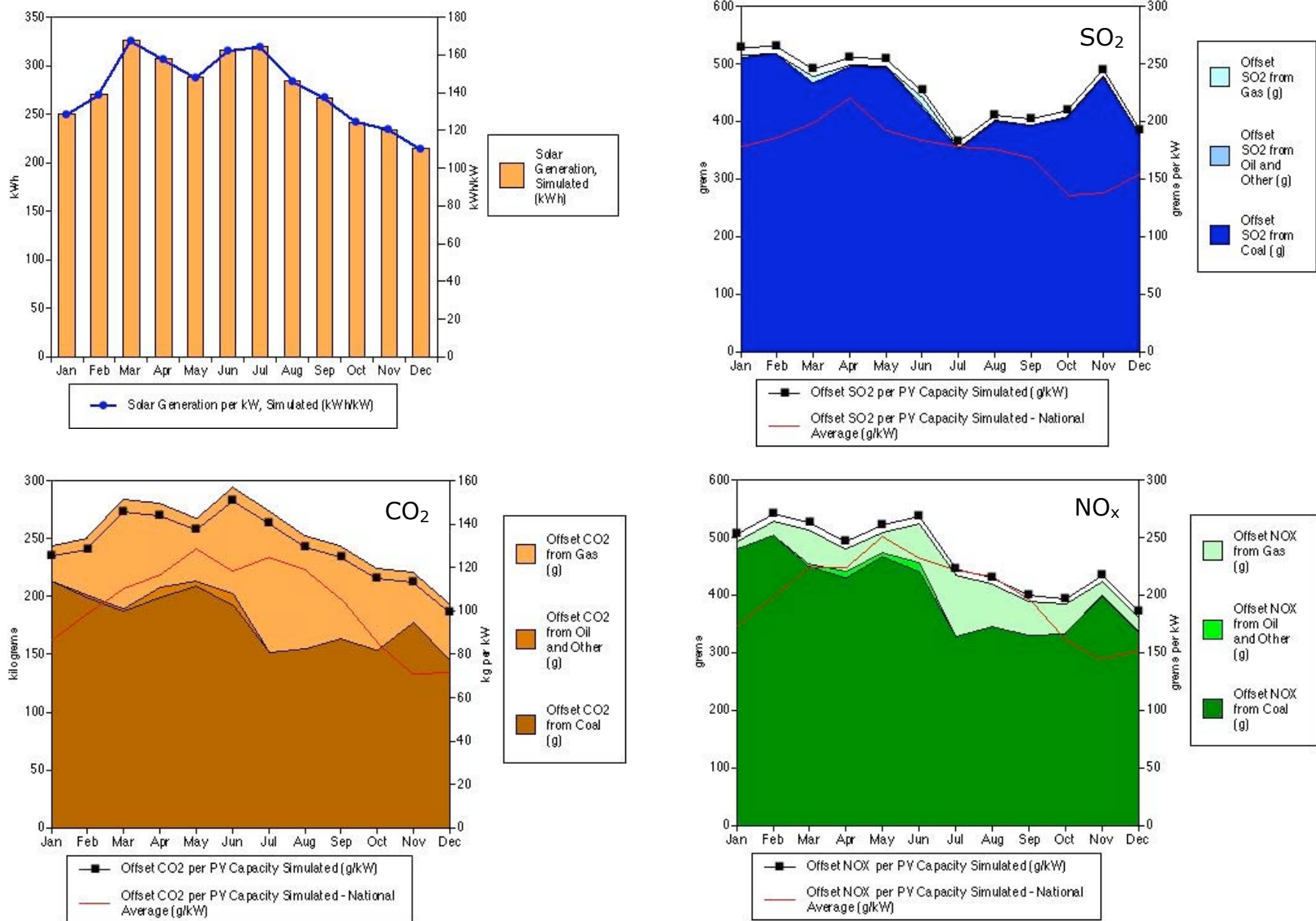


Figure BVIII - 17 Emission Offsets by Month, ROCK (Colorado) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated Generation and Emission Offsets – NWGB, 2002

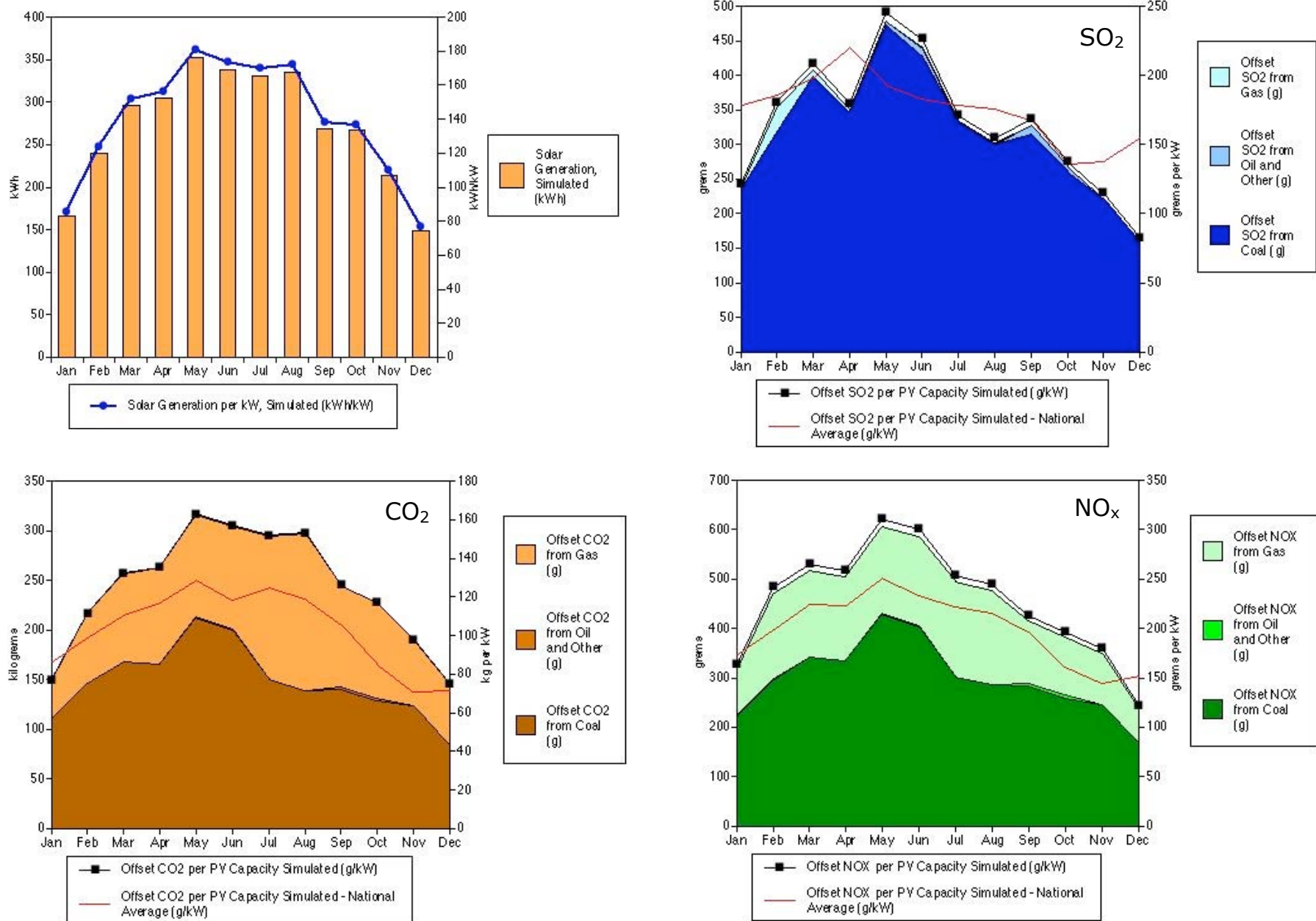


Figure BVIII - 18 Emission Offsets by Month, NWGB (Great Basin) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated PV Generation and Emission Offsets – NWPN, 2002

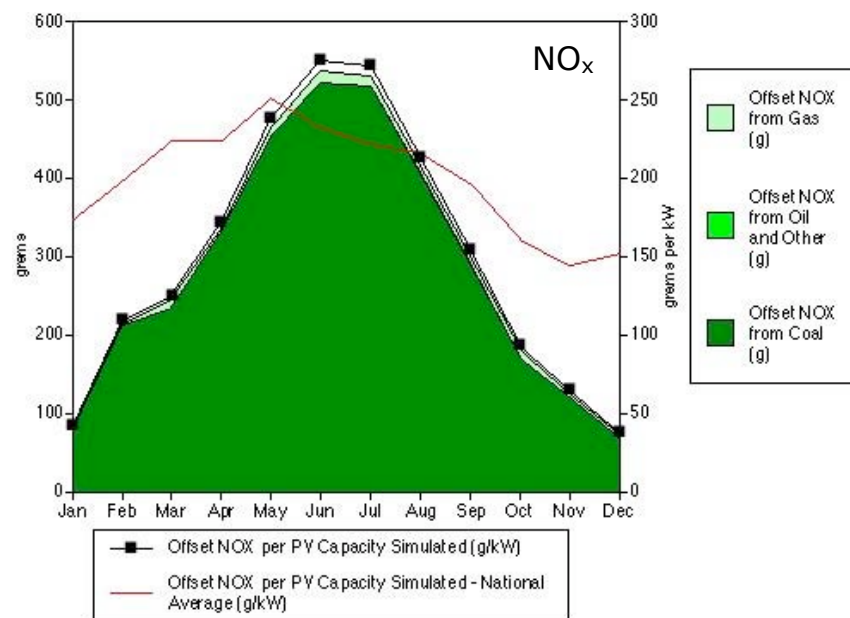
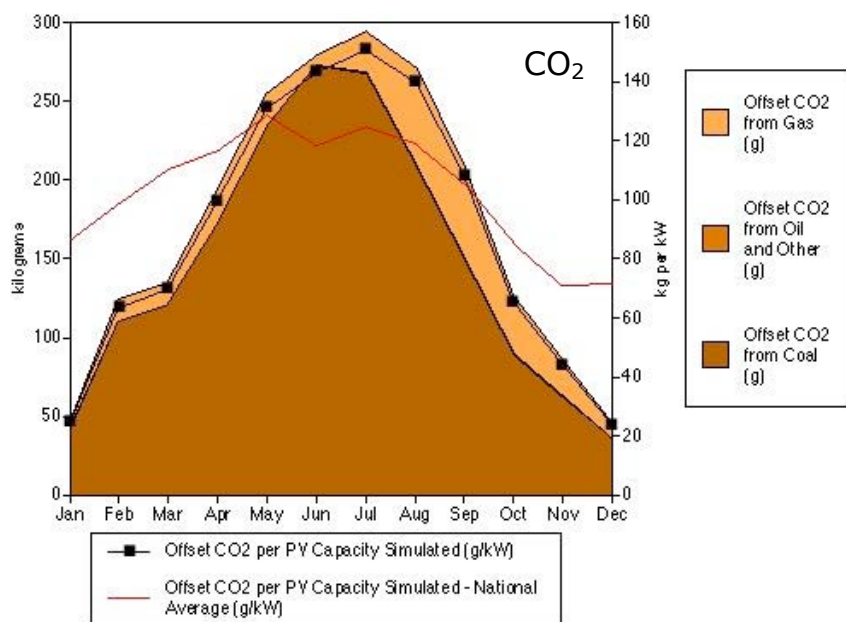
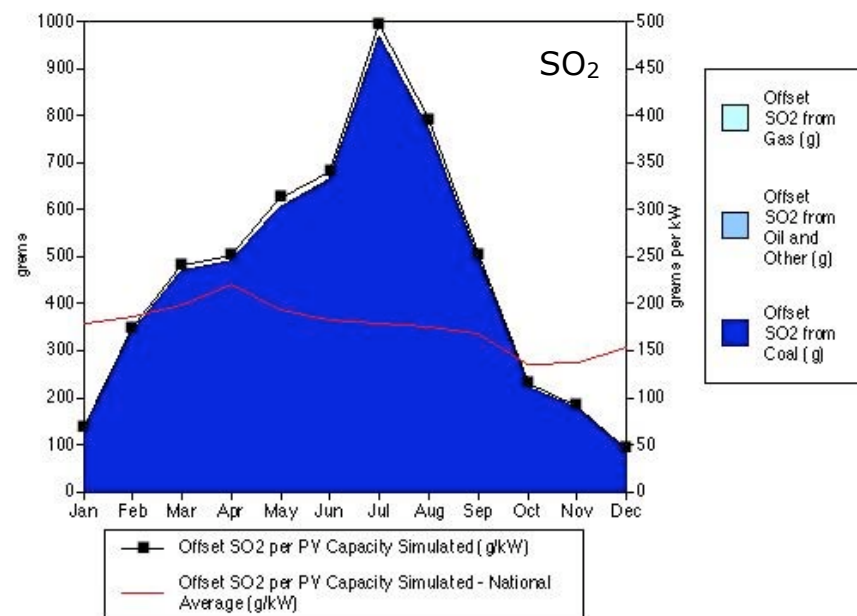
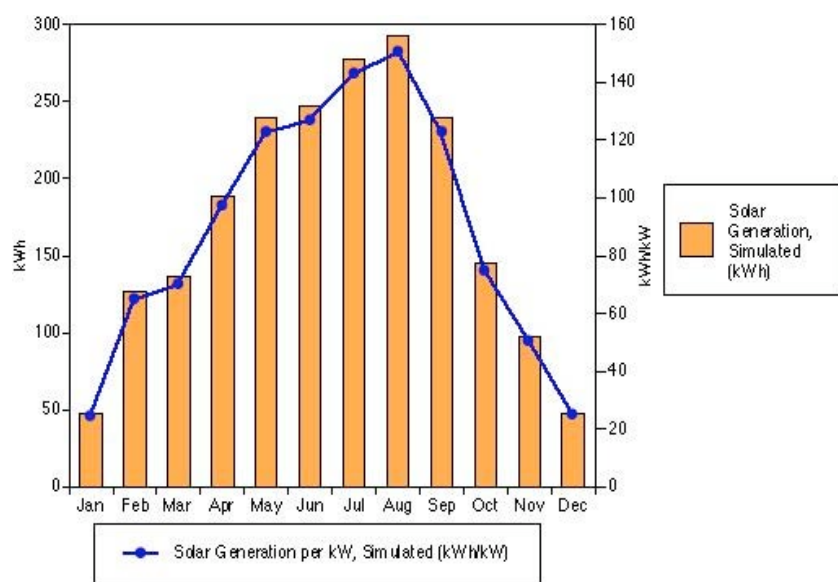


Figure BVIII - 19 Emission Offsets by Month, NWPN (Pacific Northwest) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated Generation and Emission Offsets – WSSW, 2002

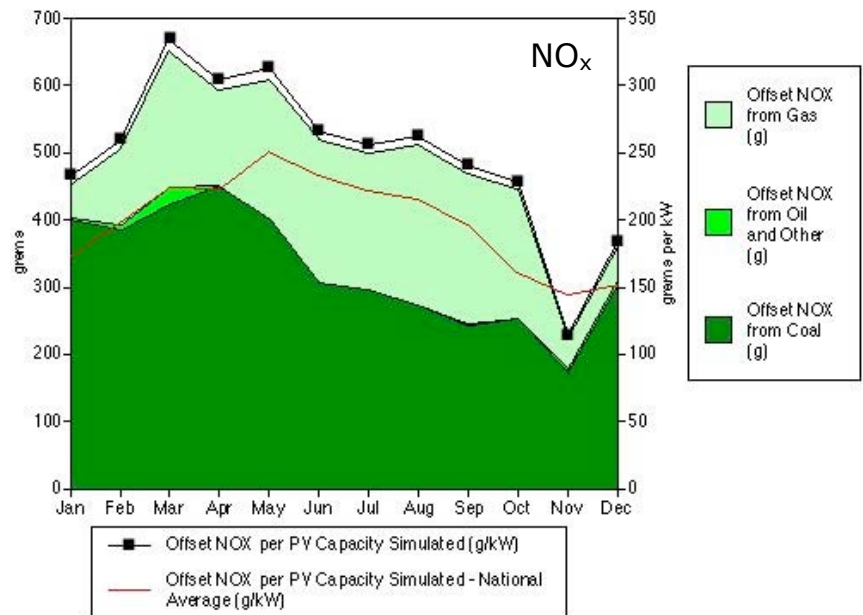
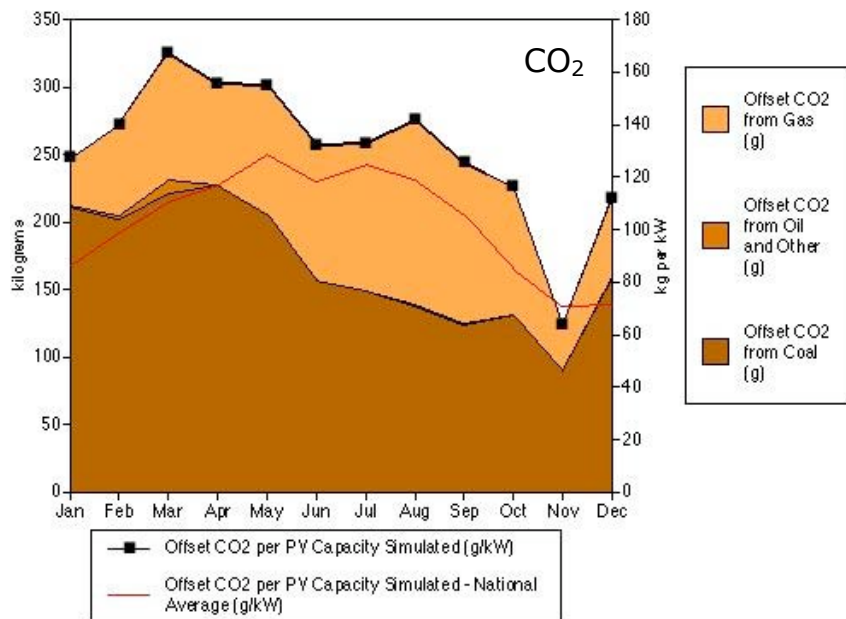
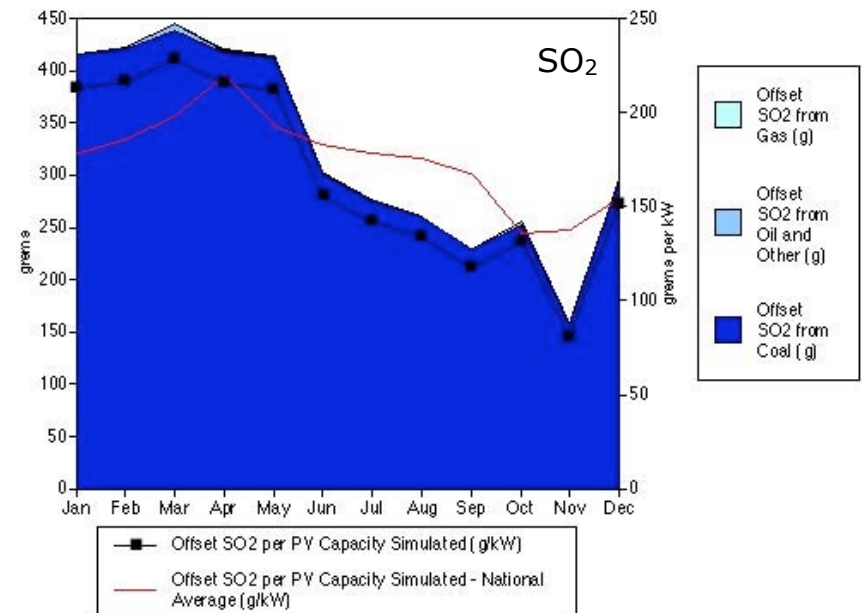
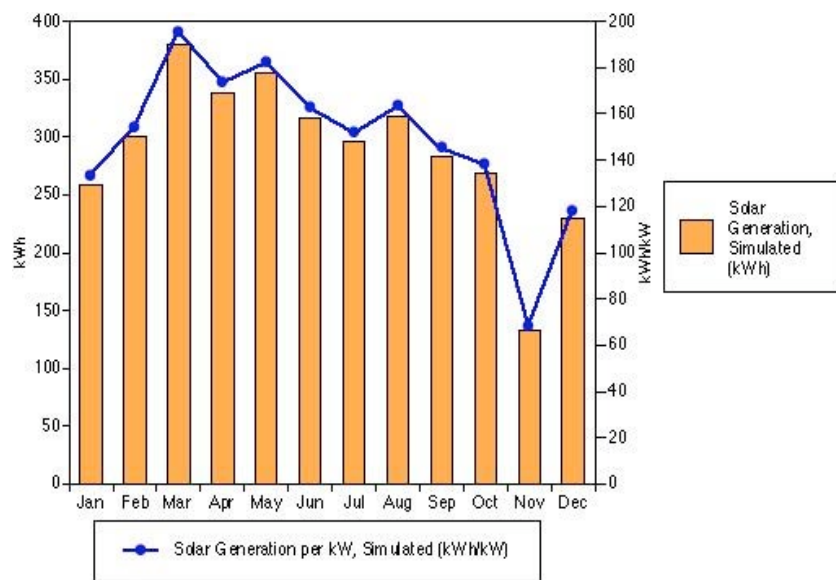


Figure BVIII - 20 Emission Offsets by Month, WSSW (Southwest) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Simulated Generation and Emission Offsets – CALI, 2002

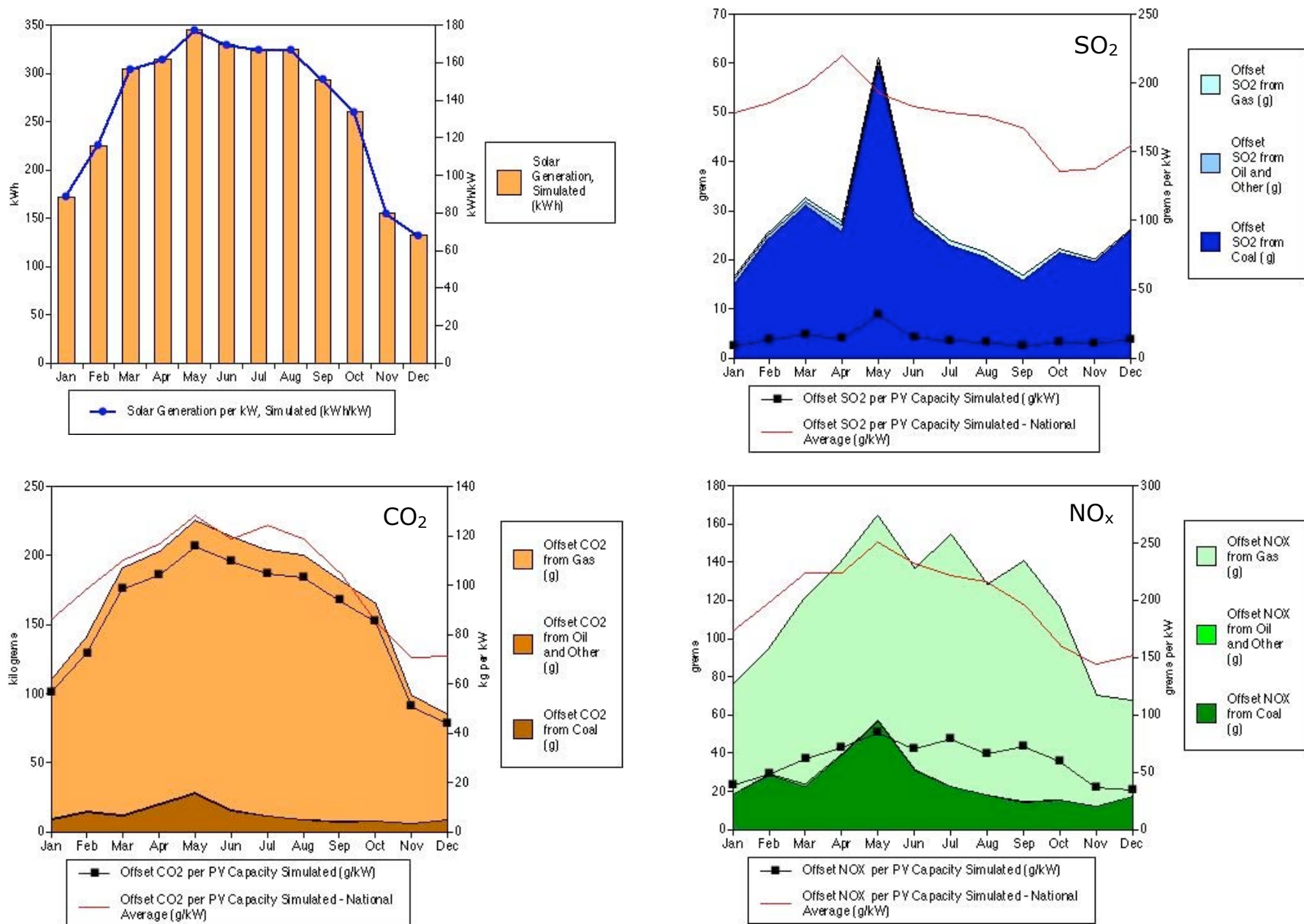


Figure BVIII - 21 Emission Offsets by Month, CALI (California) in 2002

The upper left hand plot shows the simulated photovoltaic generation in the subregion during 2002. The subsequent graphs show the quantity of emissions offset along with the rate of offset per kW of simulated capacity.

Emission Offsets per PV Capacity Simulated (g or kg / kW)						
Month	SO2 (g)		NOX (g)		CO2 (kg)	
	National Average	Standard Deviation	National Average	Standard Deviation	National Average	Standard Deviation
Jan	321	178	174	76	86	29
Feb	357	186	199	76	98	25
Mar	373	198	224	84	110	29
Apr	374	220	224	74	117	20
May	403	193	252	79	129	21
Jun	332	183	233	76	119	22
Jul	325	178	222	59	125	20
Aug	315	176	216	61	119	19
Sep	294	168	196	67	106	17
Oct	257	136	161	57	85	18
Nov	240	138	145	58	71	18
Dec	252	154	152	65	71	23

Table BVIII - 1 Monthly Offset National Averages and Standard Deviations