



Prepared By: Bob Hanna
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CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

CLEANCALC OUTPUT SUMMARY DATA	SIMULATION NO.1	SIMULATION NO.2	SIMULATION NO.3	SIMULATION NO.4	SIMULATION NO.5
Simulation Name	Marine climate zone	Cold/humid climate z	Hot/humid climate zo	Hot/arid climate zon	Hot/cold climate zon
Simulation Summary Results					
Total Annual Electric Energy:	164,366,260 kWh	165,255,650 kWh	175,501,974 kWh	167,847,891 kWh	173,810,372 kWh
Total Annual HVAC Electric Energy:	17,912,024 kWh	18,814,381 kWh	28,716,786 kWh	21,121,218 kWh	26,902,027 kWh
Total Annual Cooling Energy:	12,307,817 kWh	13,065,849 kWh	23,144,012 kWh	15,456,785 kWh	21,317,015 kWh
Total Annual Utility Energy:	59,594,280 kWh	59,594,280 kWh	59,594,280 kWh	59,594,280 kWh	59,594,280 kWh
Total Annual Process Tool Energy:	72,445,200 kWh	72,445,200 kWh	72,445,200 kWh	72,445,200 kWh	72,445,200 kWh
Annual Internal Net Sensible Cooling Load:	40,295,724 kWh	40,305,372 kWh	41,446,812 kWh	41,409,696 kWh	40,801,596 kWh
Total Makeup Air Heat Electric Energy(External):	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total MakeUp Air Heat Fuel Energy(External):	140,880,425 MJ	246,161,369 MJ	110,491,484 MJ	89,355,633 MJ	130,720,830 MJ
Total Annual HVAC Fuel Energy:	145,680,277 MJ	257,314,574 MJ	113,892,872 MJ	96,789,080 MJ	134,668,304 MJ
Peak Chiller Plant Energy Demand:	3,284 kW	4,611 kW	4,931 kW	4,313 kW	6,138 kW
Peak Humidification Demand:	5,302 kg/hr	6,588 kg/hr	5,225 kg/hr	5,493 kg/hr	5,232 kg/hr
Peak Heating Electric Energy Demand:	0 kW	0 kW	0 kW	0 kW	0 kW
Peak Heating Fuel Energy Demand:	58,083 MJ	100,422 MJ	50,809 MJ	48,185 MJ	56,516 MJ
Peak Total Fuel Energy Demand:	58,425 MJ	100,846 MJ	51,146 MJ	48,527 MJ	56,853 MJ
Peak Total Electric Energy Demand:	34,895 kW	41,995 kW	43,741 kW	40,425 kW	50,187 kW
FAB Cleanroom					
Total Annual Electric Energy:	88,142,666 kWh	88,667,982 kWh	94,892,282 kWh	90,021,573 kWh	93,642,305 kWh
Total Annual HVAC Fuel Energy:	94,686,729 MJ	158,192,249 MJ	78,139,511 MJ	56,474,285 MJ	90,095,081 MJ
Total Annual Cooling Energy:	5,325,173 kWh	5,709,190 kWh	12,105,893 kWh	7,145,506 kWh	10,843,769 kWh
Clean Sub-Fab					
Total Annual Electric Energy:	32,163,735 kWh	32,226,305 kWh	33,243,035 kWh	32,557,499 kWh	33,039,157 kWh
Total Annual HVAC Fuel Energy:	16,709,448 MJ	28,844,563 MJ	14,005,795 MJ	16,589,991 MJ	15,620,605 MJ
Total Annual Cooling Energy:	3,760,788 kWh	3,823,358 kWh	4,840,089 kWh	4,154,553 kWh	4,636,212 kWh
Dirty or Utility Sub-Fab					
Total Annual Electric Energy:	6,467,615 kWh	6,628,475 kWh	8,184,551 kWh	7,101,350 kWh	8,039,082 kWh
Total Annual HVAC Fuel Energy:	17,444,584 MJ	38,501,664 MJ	10,907,321 MJ	17,060,801 MJ	14,351,552 MJ
Total Annual Cooling Energy:	228,556 kWh	389,418 kWh	1,595,091 kWh	687,093 kWh	1,449,626 kWh
Clean Support					
Total Annual Electric Energy:	5,696,747 kWh	5,708,317 kWh	5,862,820 kWh	5,756,133 kWh	5,828,946 kWh
Total Annual HVAC Fuel Energy:	1,870,383 MJ	3,383,766 MJ	1,358,071 MJ	958,930 MJ	1,678,906 MJ
Total Annual Cooling Energy:	280,253 kWh	289,290 kWh	446,590 kWh	338,374 kWh	412,626 kWh
Non Clean Support					
Total Annual Electric Energy:	7,920,788 kWh	7,999,971 kWh	8,773,248 kWh	8,197,815 kWh	8,616,970 kWh
Total Annual HVAC Fuel Energy:	6,391,549 MJ	11,694,011 MJ	4,996,489 MJ	2,612,608 MJ	6,139,325 MJ
Total Annual Cooling Energy:	1,106,308 kWh	1,185,493 kWh	1,958,766 kWh	1,383,336 kWh	1,802,489 kWh
Bottle Gas Pad/Room					
Total Annual Electric Energy:	568,634 kWh	598,873 kWh	795,738 kWh	632,748 kWh	764,234 kWh
Total Annual HVAC Fuel Energy:	2,749,622 MJ	4,704,782 MJ	1,511,578 MJ	1,083,855 MJ	2,195,350 MJ
Total Annual Cooling Energy:	17,497 kWh	47,736 kWh	244,600 kWh	81,613 kWh	213,098 kWh

Note: Output values are estimates only and actual results may vary.



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Simulation Name	Marine climate zone	Cold/humid climate z	Hot/humid climate zo	Hot/arid climate zon	Hot/cold climate zon

Chemical Dispense/Mix					
Total Annual Electric Energy:	1,255,708 kWh	1,272,347 kWh	1,387,207 kWh	1,302,005 kWh	1,365,718 kWh
Total Annual HVAC Fuel Energy:	1,144,706 MJ	2,378,378 MJ	703,886 MJ	434,207 MJ	1,005,132 MJ
Total Annual Cooling Energy:	3,401 kWh	20,038 kWh	134,899 kWh	49,697 kWh	113,410 kWh

Computer Room					
Total Annual Electric Energy:	2,714,681 kWh	2,705,491 kWh	2,762,576 kWh	2,858,134 kWh	2,900,680 kWh
Total Annual HVAC Fuel Energy:	643,183 MJ	1,316,014 MJ	505,649 MJ	354,041 MJ	611,541 MJ
Total Annual Cooling Energy:	167,009 kWh	170,291 kWh	234,419 kWh	212,832 kWh	249,353 kWh

Test/Sort/Probe					
Total Annual Electric Energy:	11,953,610 kWh	11,955,490 kWh	11,999,165 kWh	11,971,433 kWh	11,989,275 kWh
Total Annual HVAC Fuel Energy:	607,162 MJ	1,074,665 MJ	421,766 MJ	320,829 MJ	531,923 MJ
Total Annual Cooling Energy:	678,238 kWh	680,114 kWh	723,795 kWh	696,061 kWh	713,906 kWh

Chiller Plant					
Total Annual Electric Energy:	3,190,103 kWh	3,194,193 kWh	3,238,028 kWh	3,177,942 kWh	3,246,823 kWh
Total Annual HVAC Fuel Energy:	1,411,688 MJ	2,966,877 MJ	557,833 MJ	374,046 MJ	1,008,688 MJ
Total Annual Cooling Energy:	360,822 kWh	364,914 kWh	408,749 kWh	348,663 kWh	417,544 kWh

UPW Plant					
Total Annual Electric Energy:	3,726,282 kWh	3,732,201 kWh	3,794,785 kWh	3,706,594 kWh	3,807,857 kWh
Total Annual HVAC Fuel Energy:	1,892,364 MJ	3,960,550 MJ	733,427 MJ	492,908 MJ	1,337,088 MJ
Total Annual Cooling Energy:	352,998 kWh	358,918 kWh	421,501 kWh	333,309 kWh	434,572 kWh

Boiler Room					
Total Annual Electric Energy:	565,691 kWh	566,005 kWh	568,539 kWh	564,665 kWh	569,325 kWh
Total Annual HVAC Fuel Energy:	128,858 MJ	297,055 MJ	51,546 MJ	32,579 MJ	93,111 MJ
Total Annual Cooling Energy:	26,774 kWh	27,089 kWh	29,620 kWh	25,748 kWh	30,410 kWh

Other Utility Area					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh

User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh

User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh

User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh

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User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh

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User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh

User Defined					
Total Annual Electric Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Total Annual HVAC Fuel Energy:	0 MJ	0 MJ	0 MJ	0 MJ	0 MJ
Total Annual Cooling Energy:	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh

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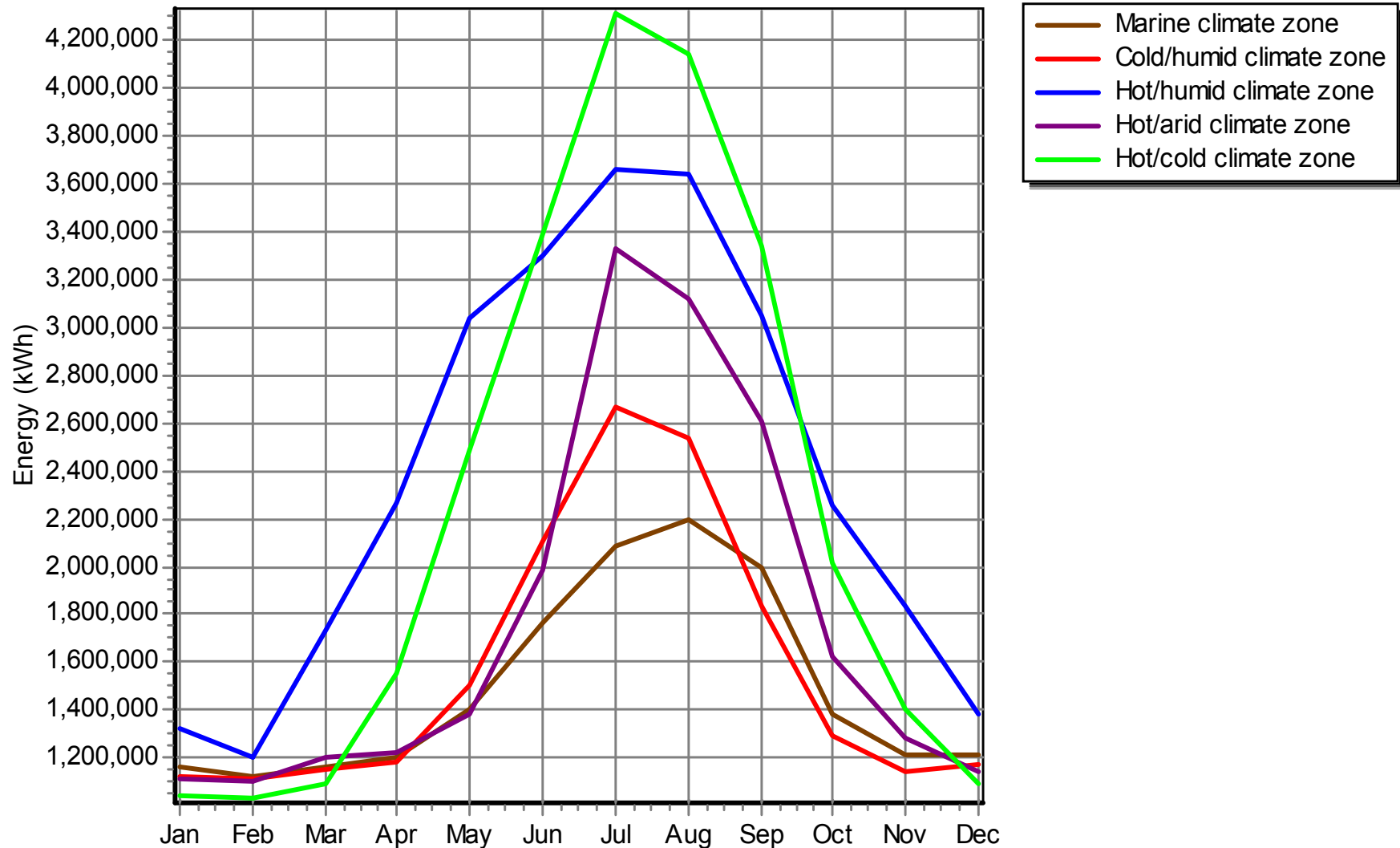


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Simulation SUMMARY GRAPH

Total Annual HVAC Electric Energy vs. Month By Simulation



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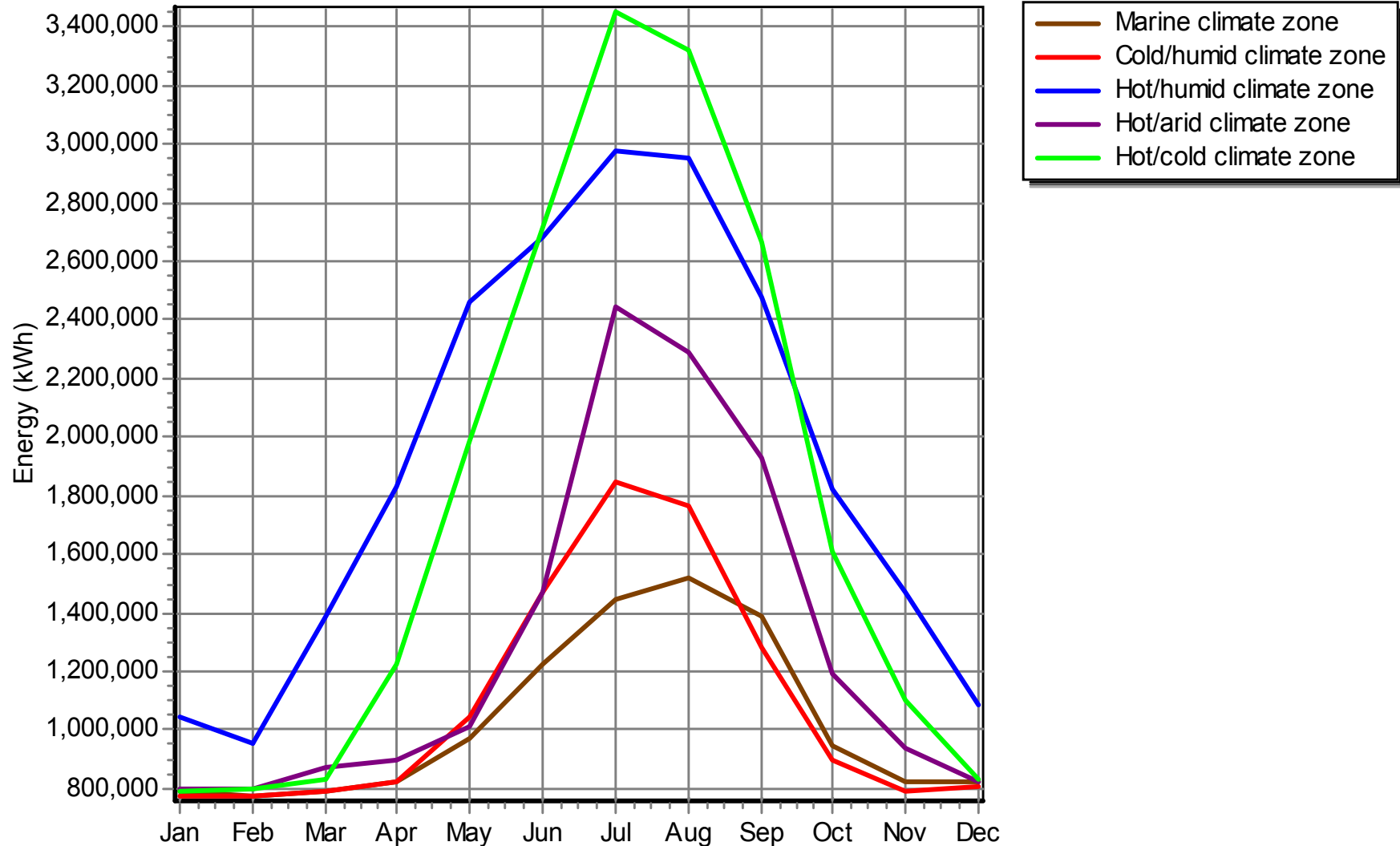


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Simulation SUMMARY GRAPH

Total Annual Cooling Energy vs. Month By Simulation



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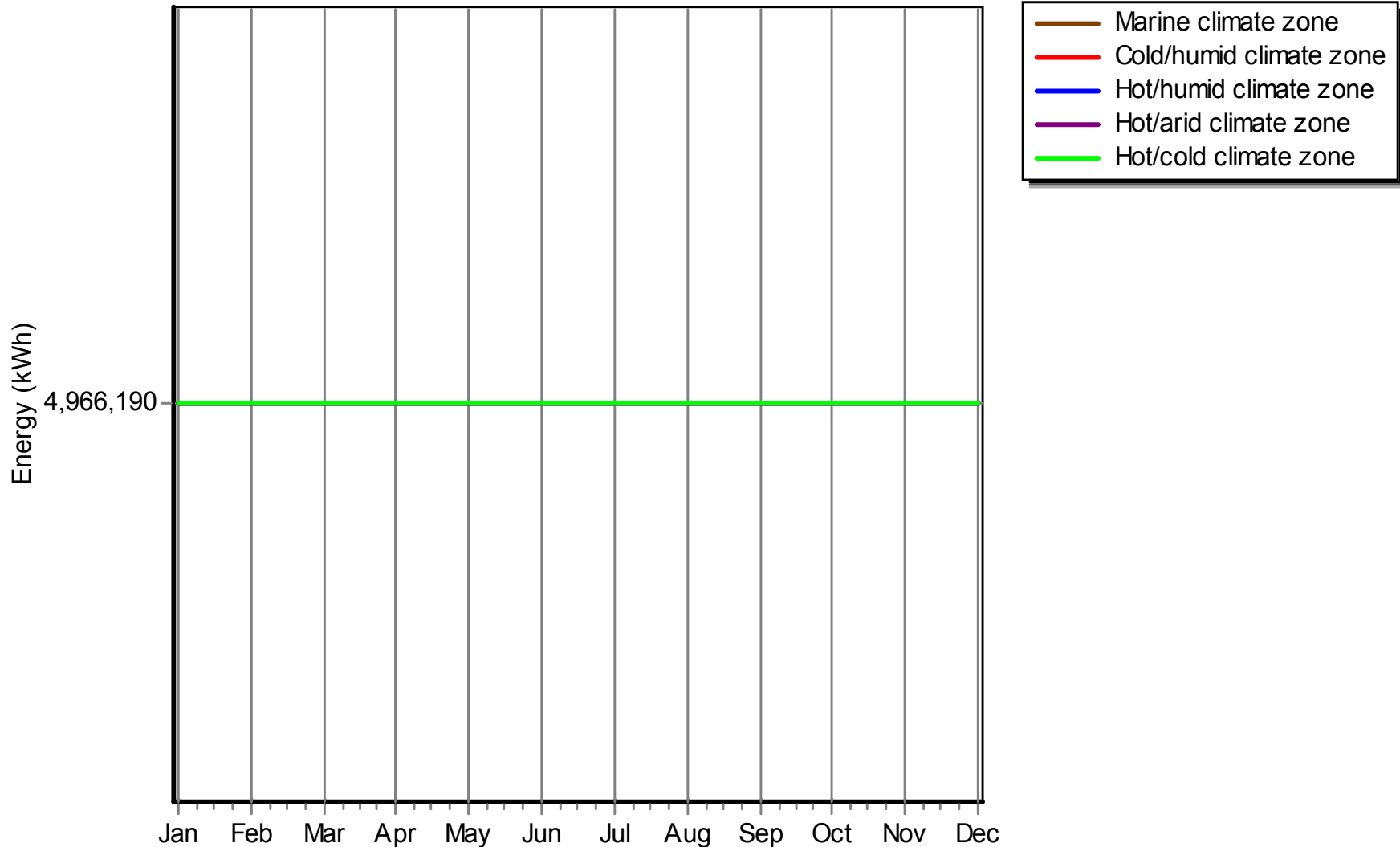


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Simulation SUMMARY GRAPH

Total Annual Utility Energy vs. Month By Simulation



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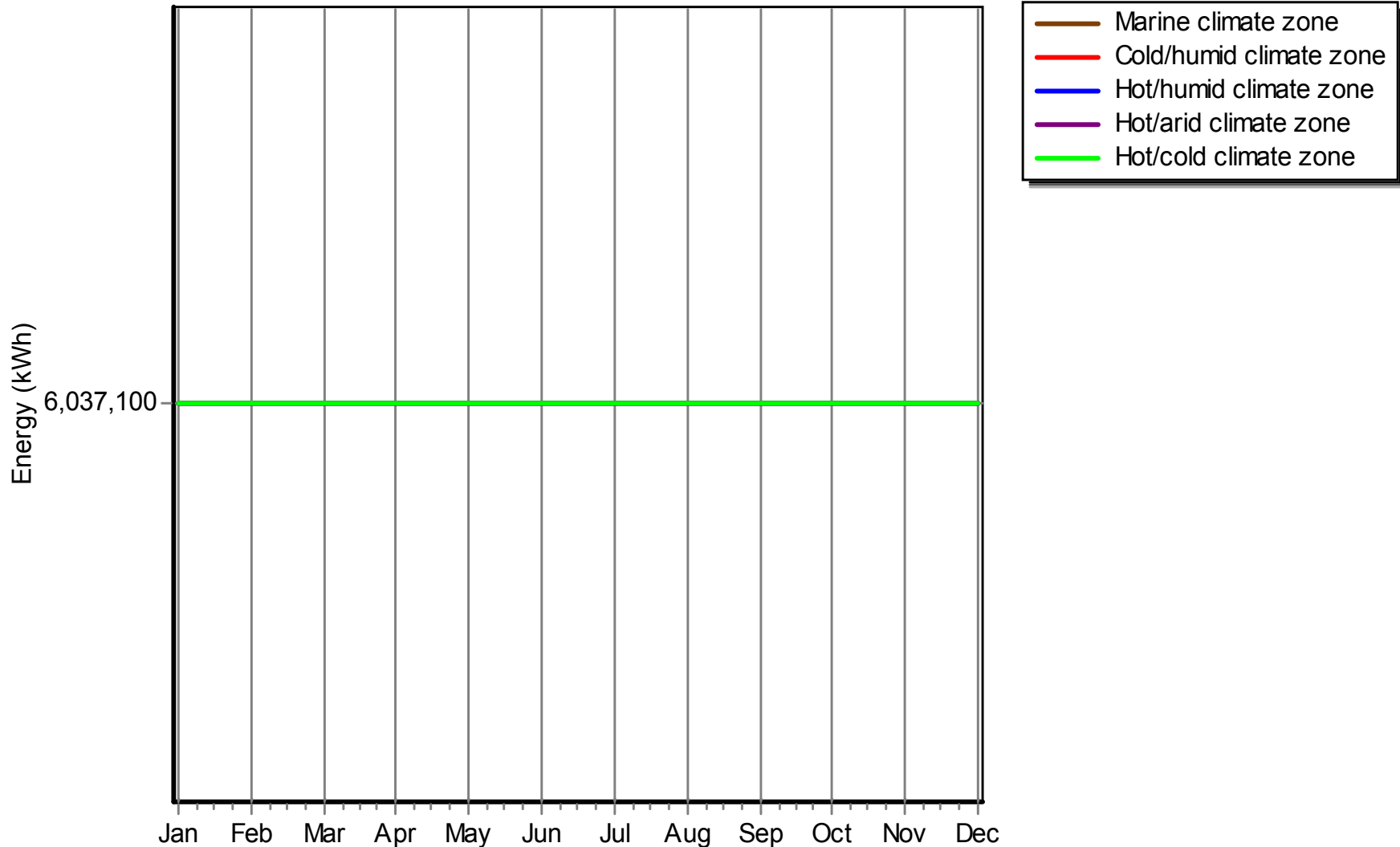


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Simulation SUMMARY GRAPH

Total Annual Process Tool Energy vs. Month By Simulation



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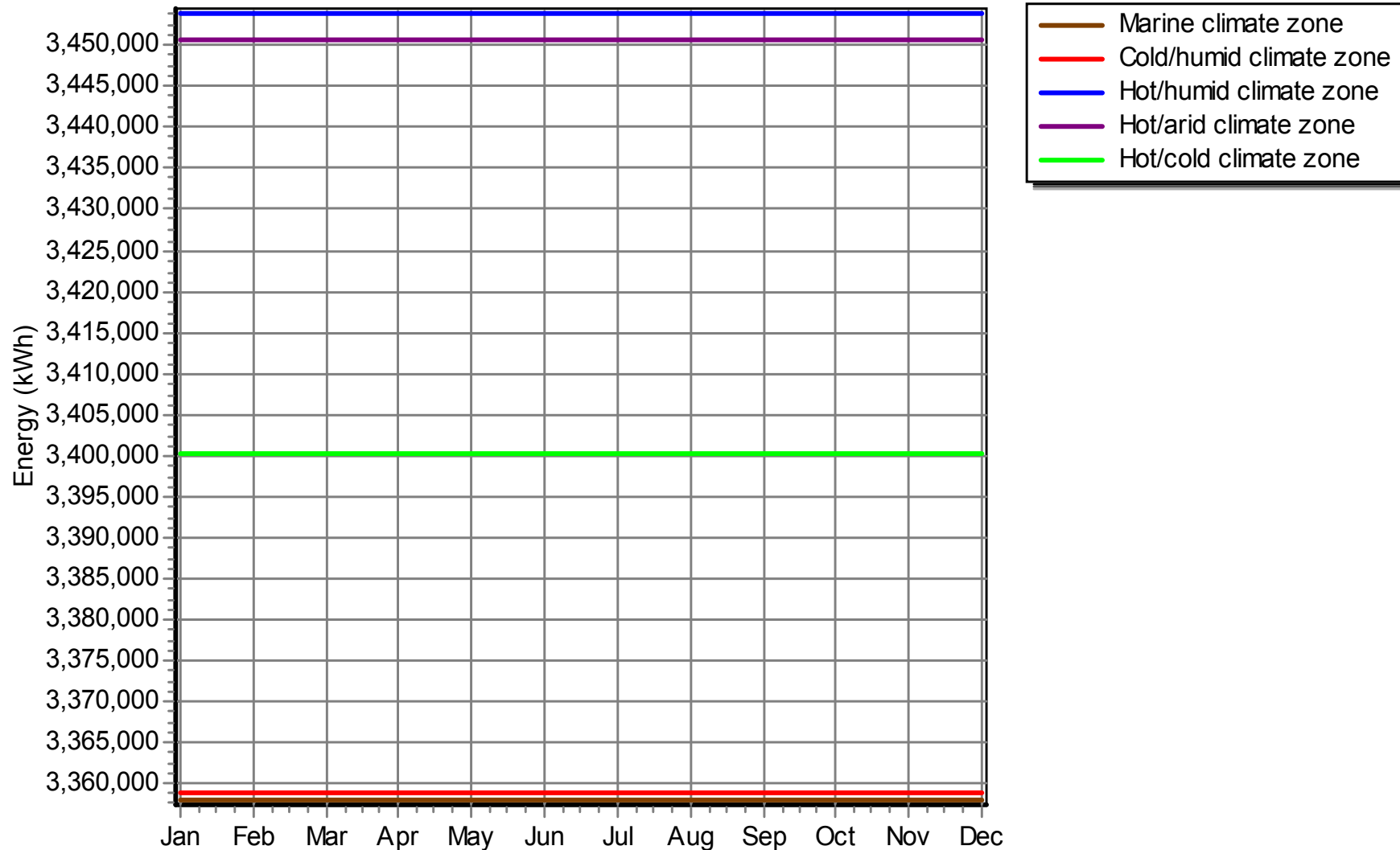


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Simulation SUMMARY GRAPH

Annual Internal Net Sensible Cooling Load vs. Month By Simulation



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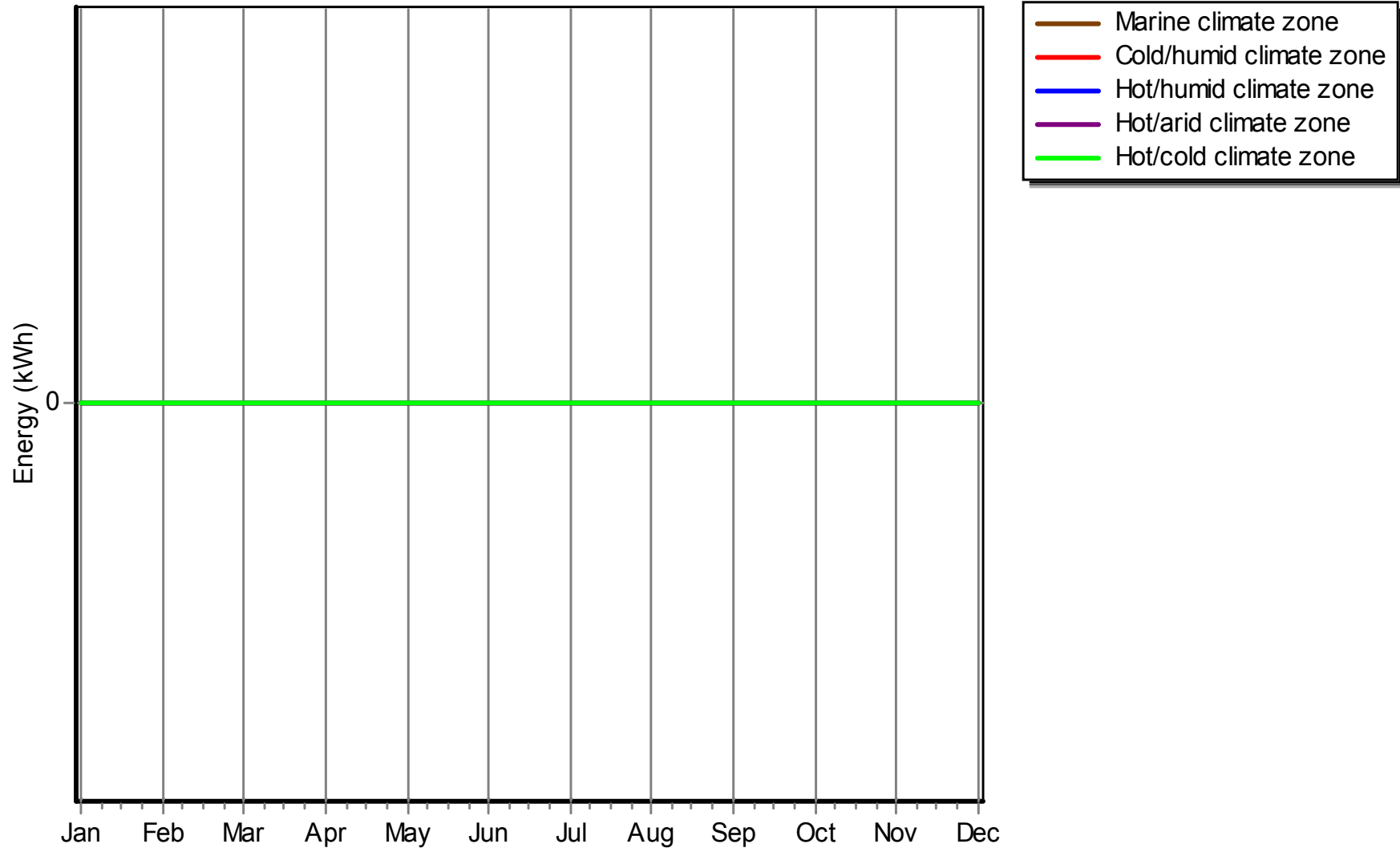


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Simulation SUMMARY GRAPH

Total Makeup Air Heat Electric Energy (External) vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

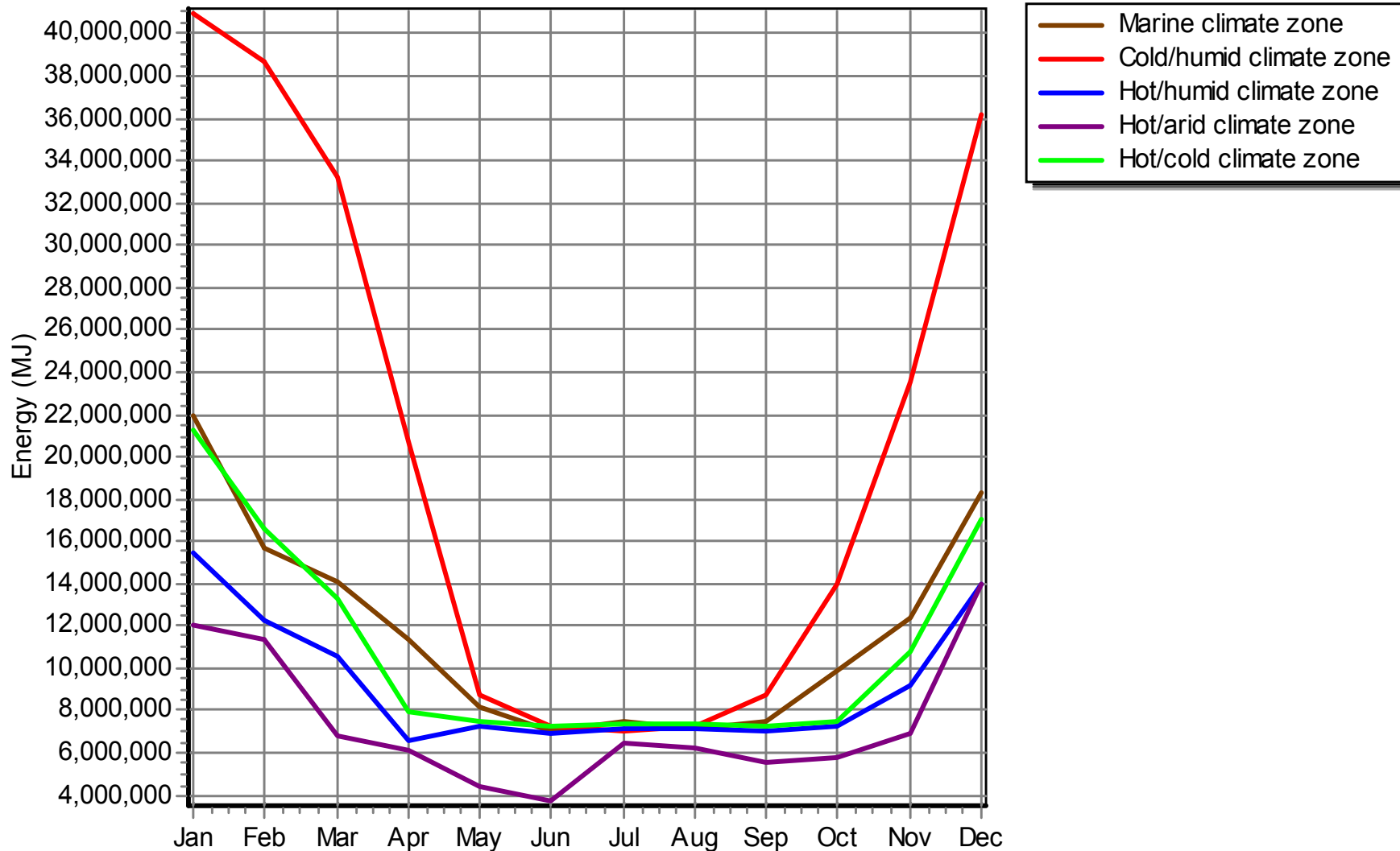


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Simulation SUMMARY GRAPH

Total Makeup Air Heat Fuel Energy (External) vs. Month By Simulation



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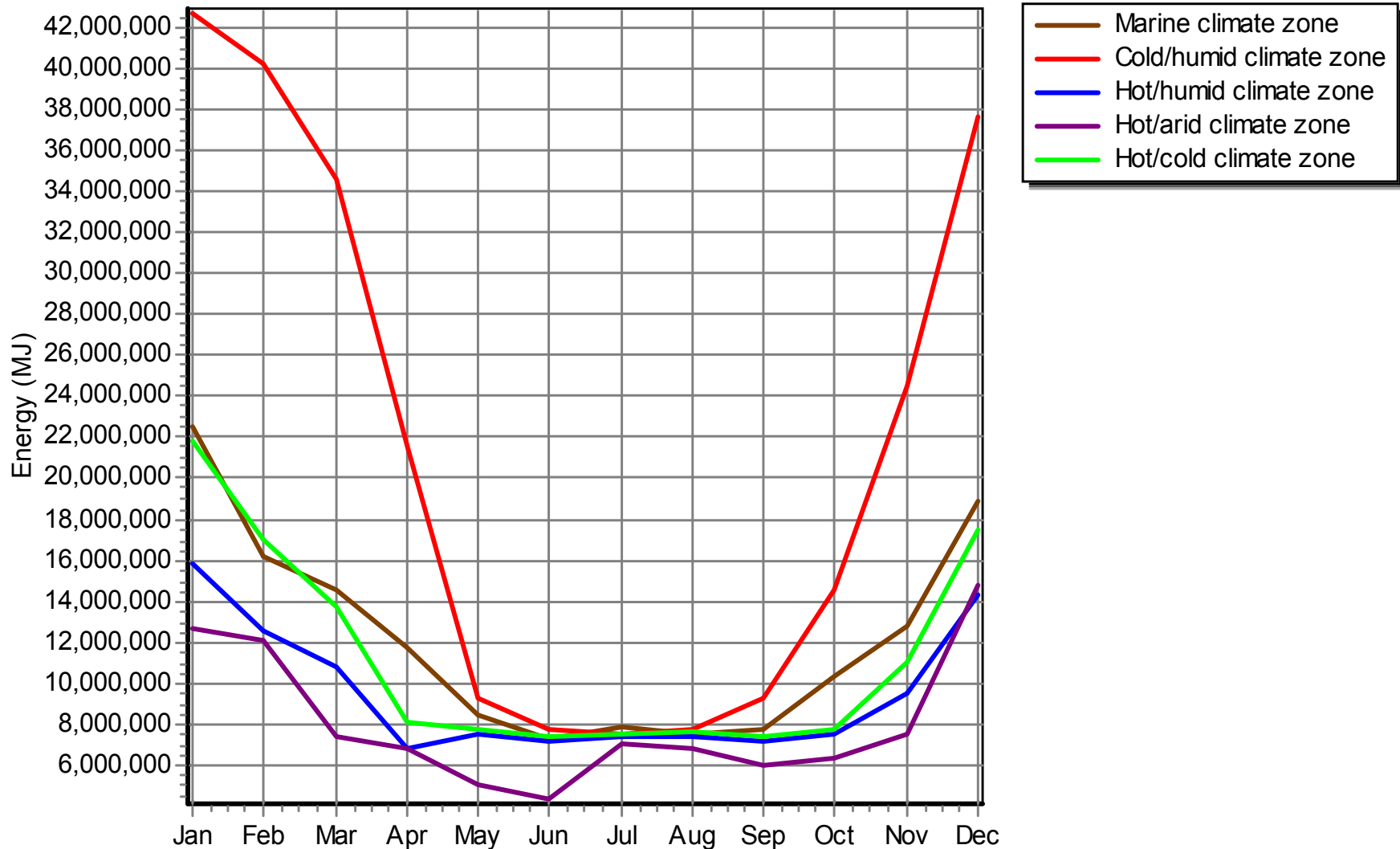


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Simulation SUMMARY GRAPH

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

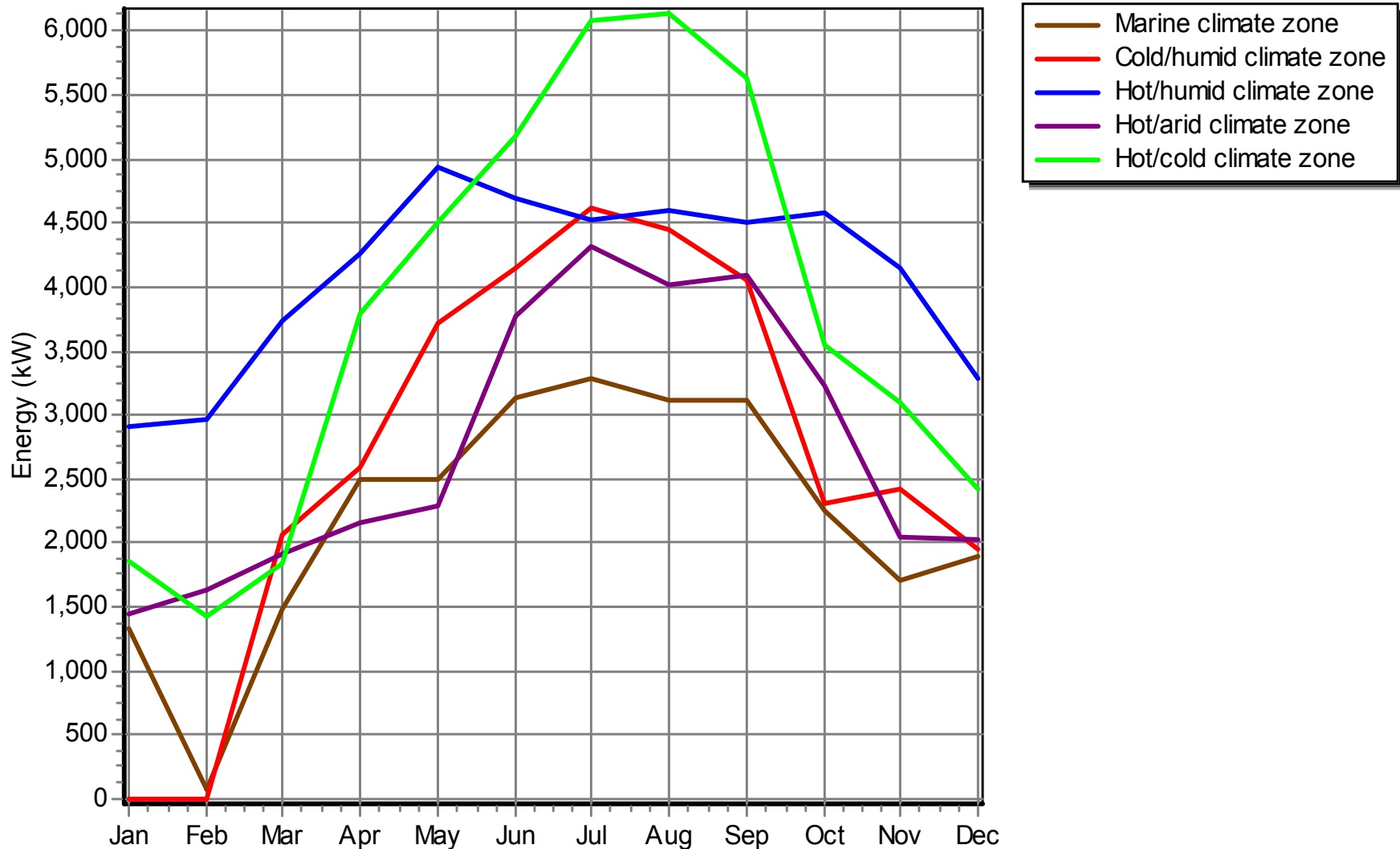


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Simulation SUMMARY GRAPH

Peak Chiller Plant Energy Demand vs. Month By Simulation



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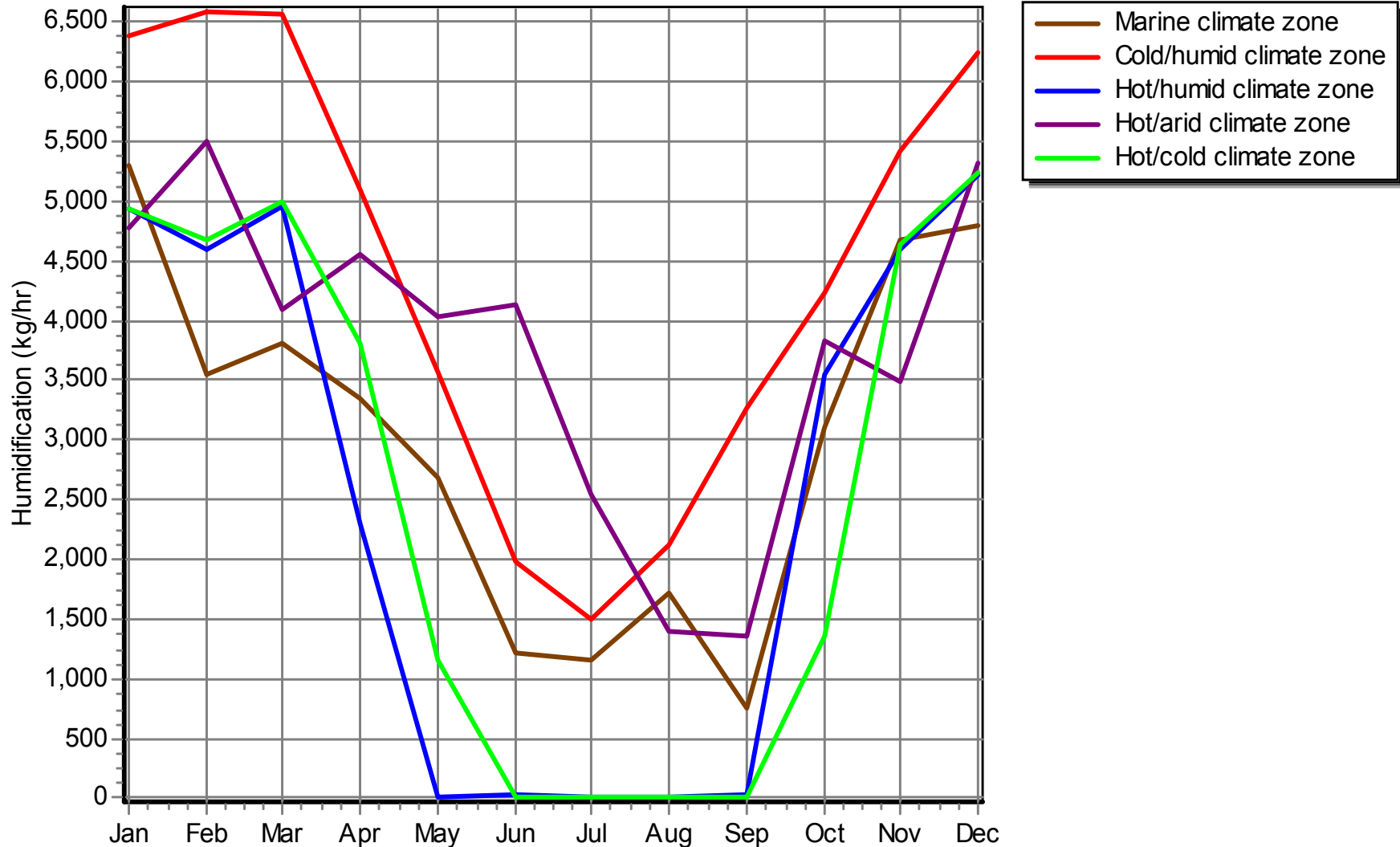


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Simulation SUMMARY GRAPH

Peak Humidification Demand vs. Month By Simulation



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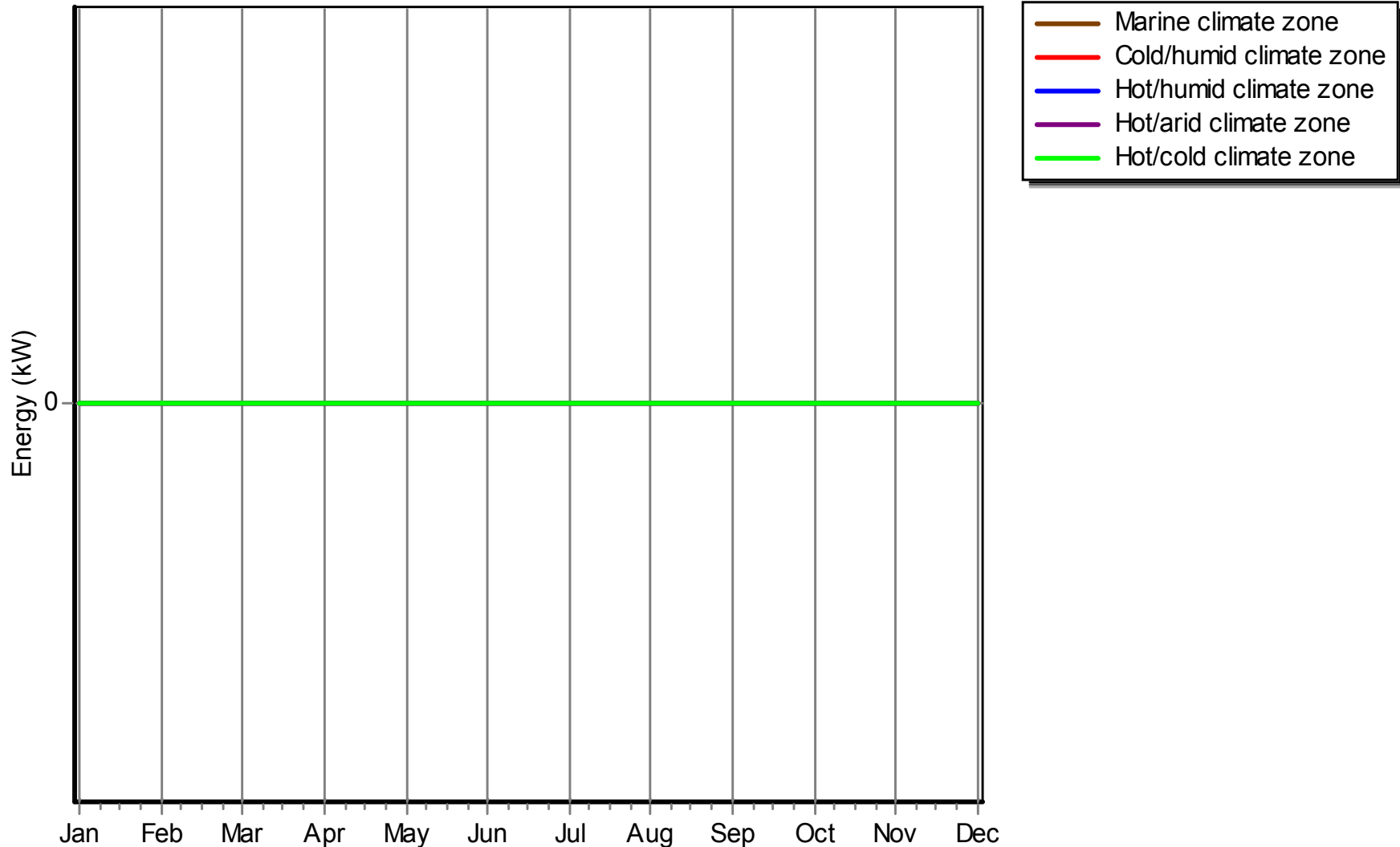


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Simulation SUMMARY GRAPH

Peak Heating Electric Energy Demand vs. Month By Simulation



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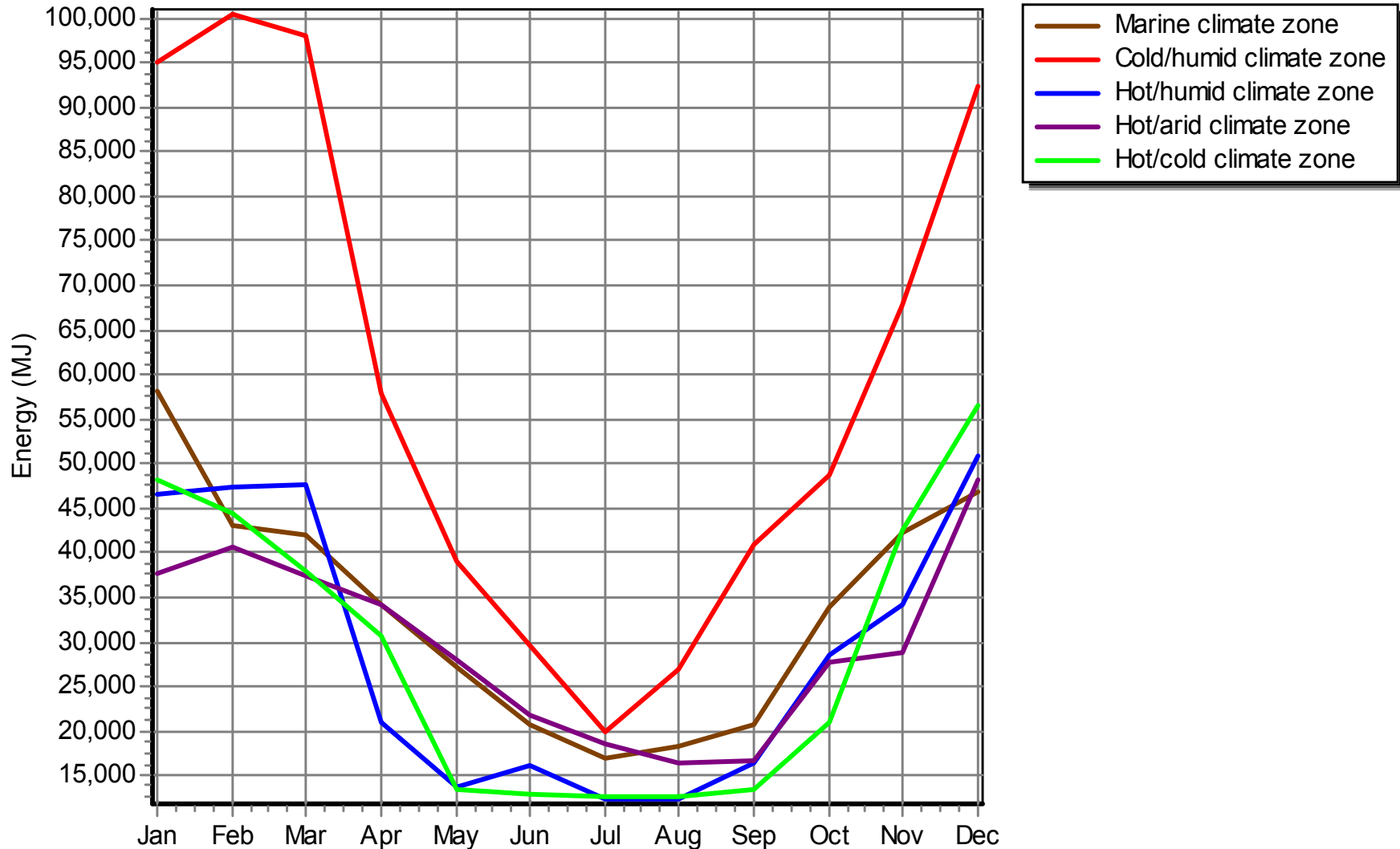


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Simulation SUMMARY GRAPH

Peak Heating Fuel Energy Demand vs. Month By Simulation



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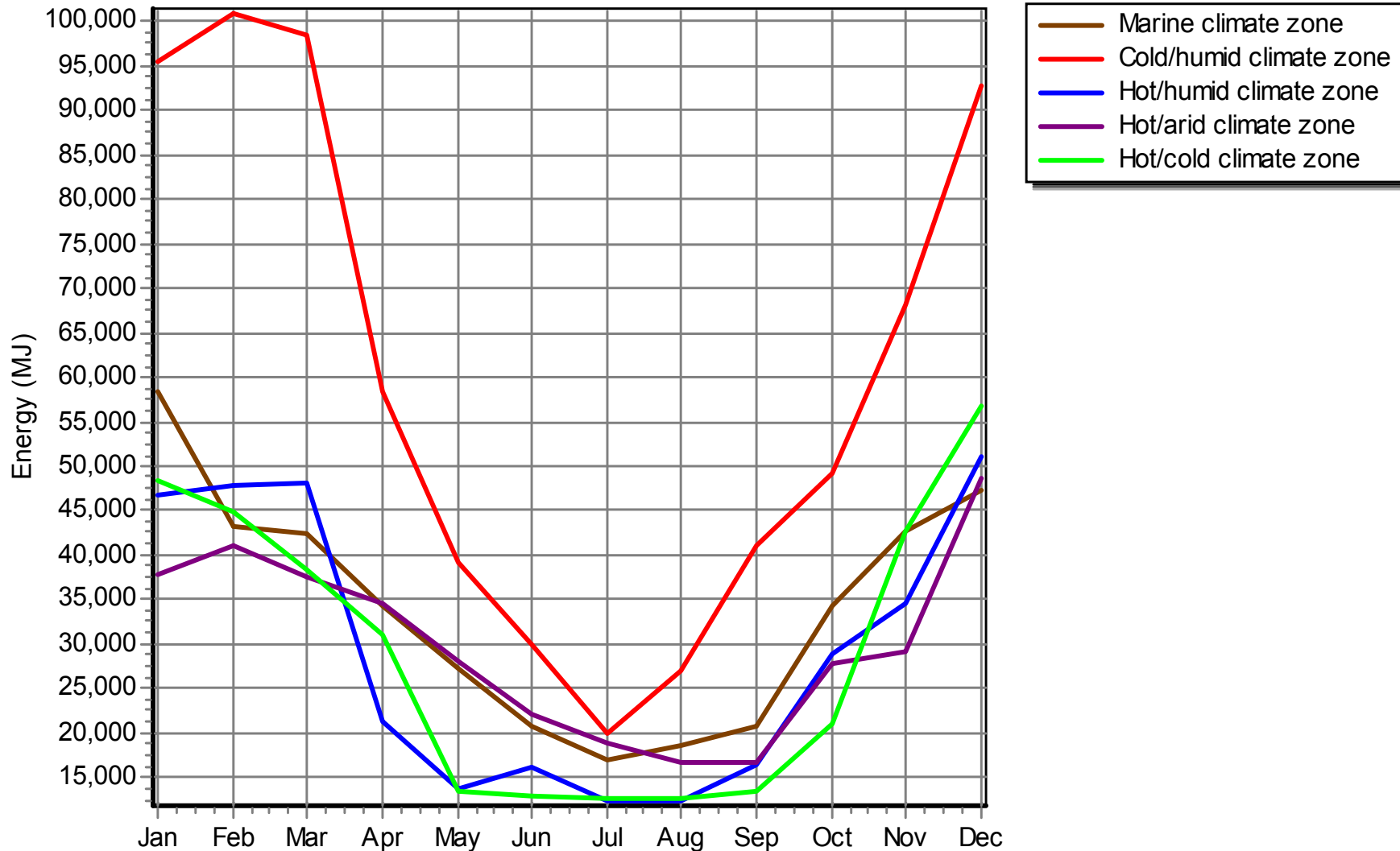


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Simulation SUMMARY GRAPH

Peak Total Fuel Energy Demand vs. Month By Simulation



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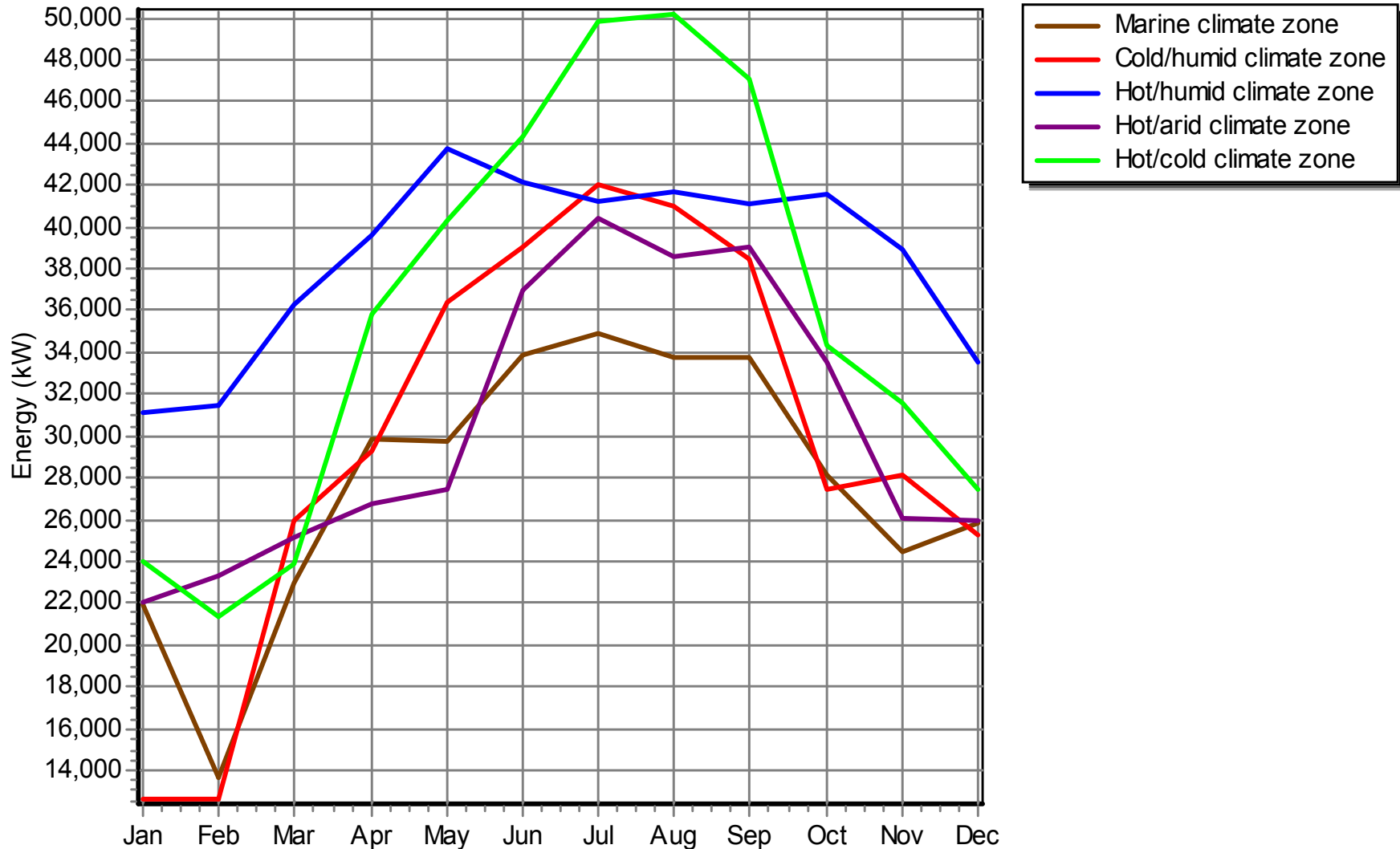


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Simulation SUMMARY GRAPH

Peak Total Electric Energy Demand vs. Month By Simulation



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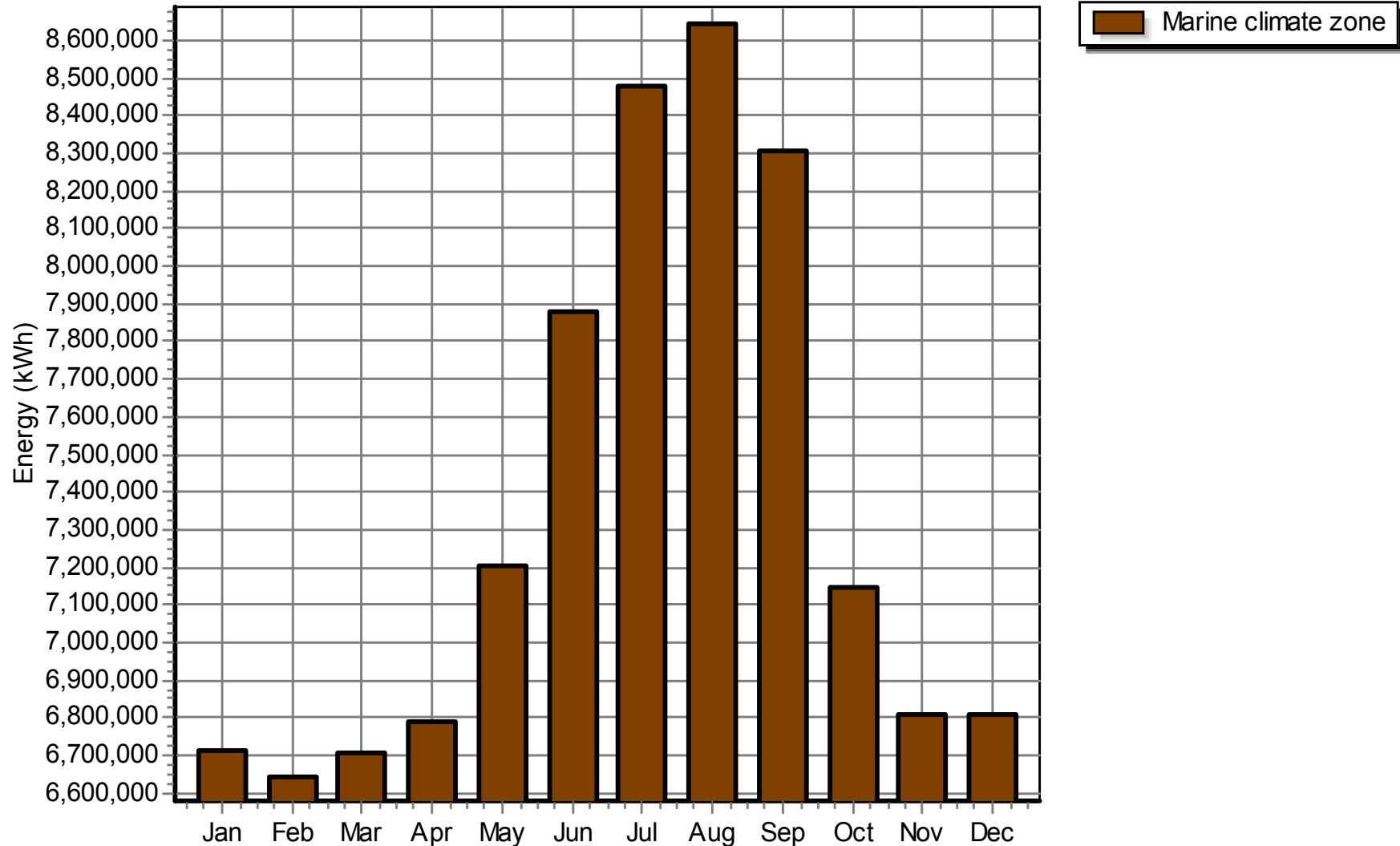
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Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Electric Energy vs. Month By Simulation



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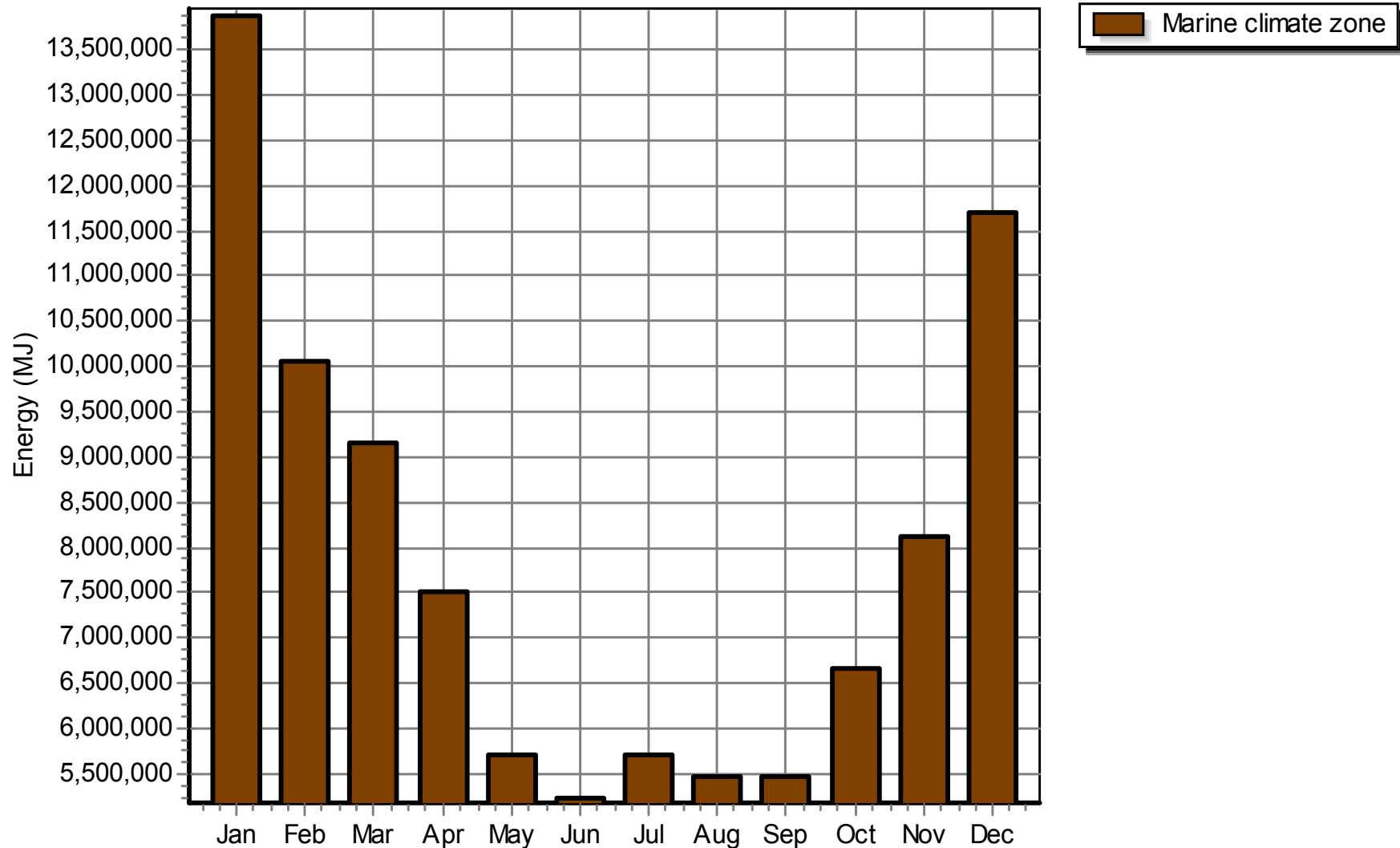
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Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual HVAC Fuel Energy vs. Month By Simulation



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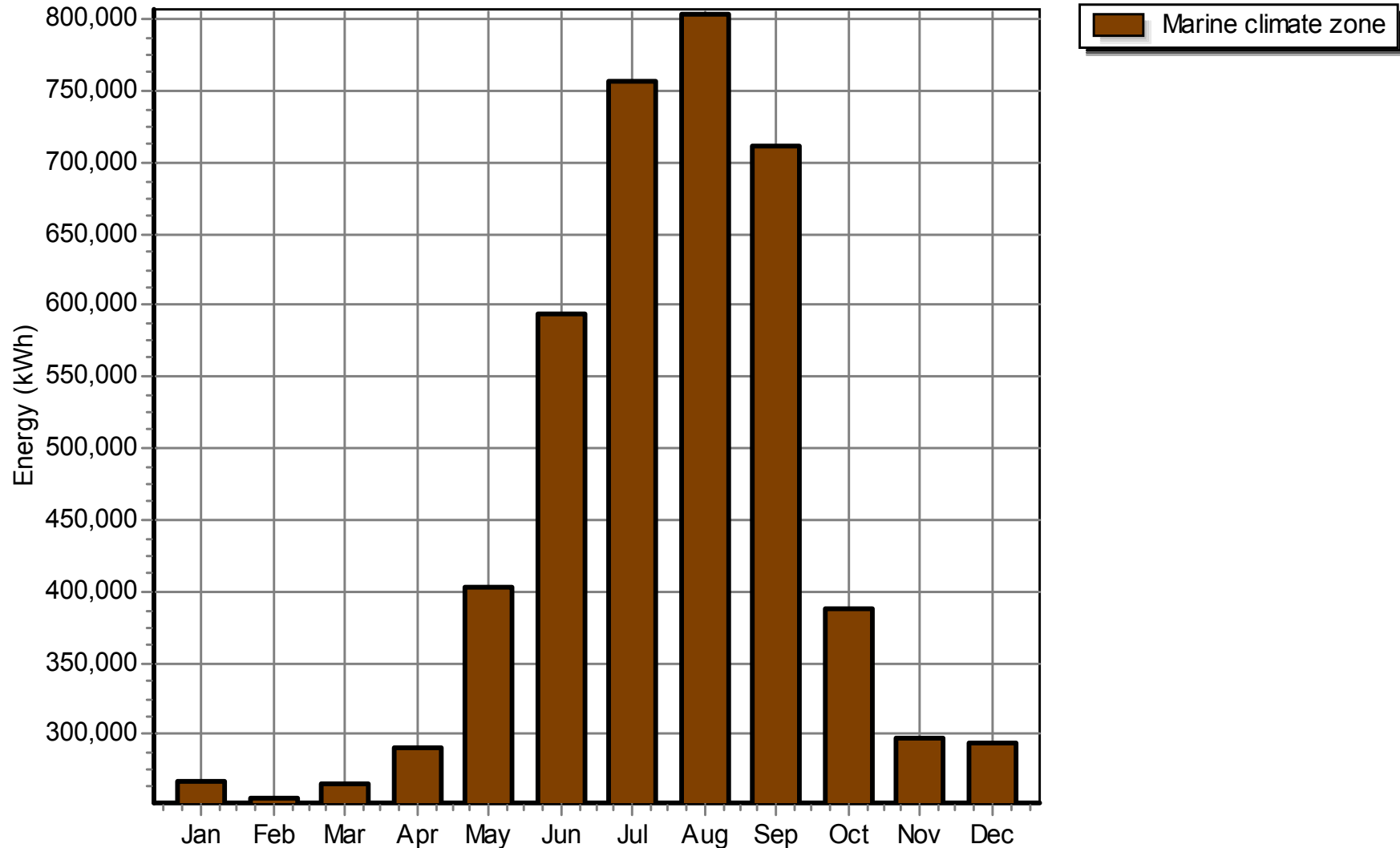
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Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Cooling Energy vs. Month By Simulation



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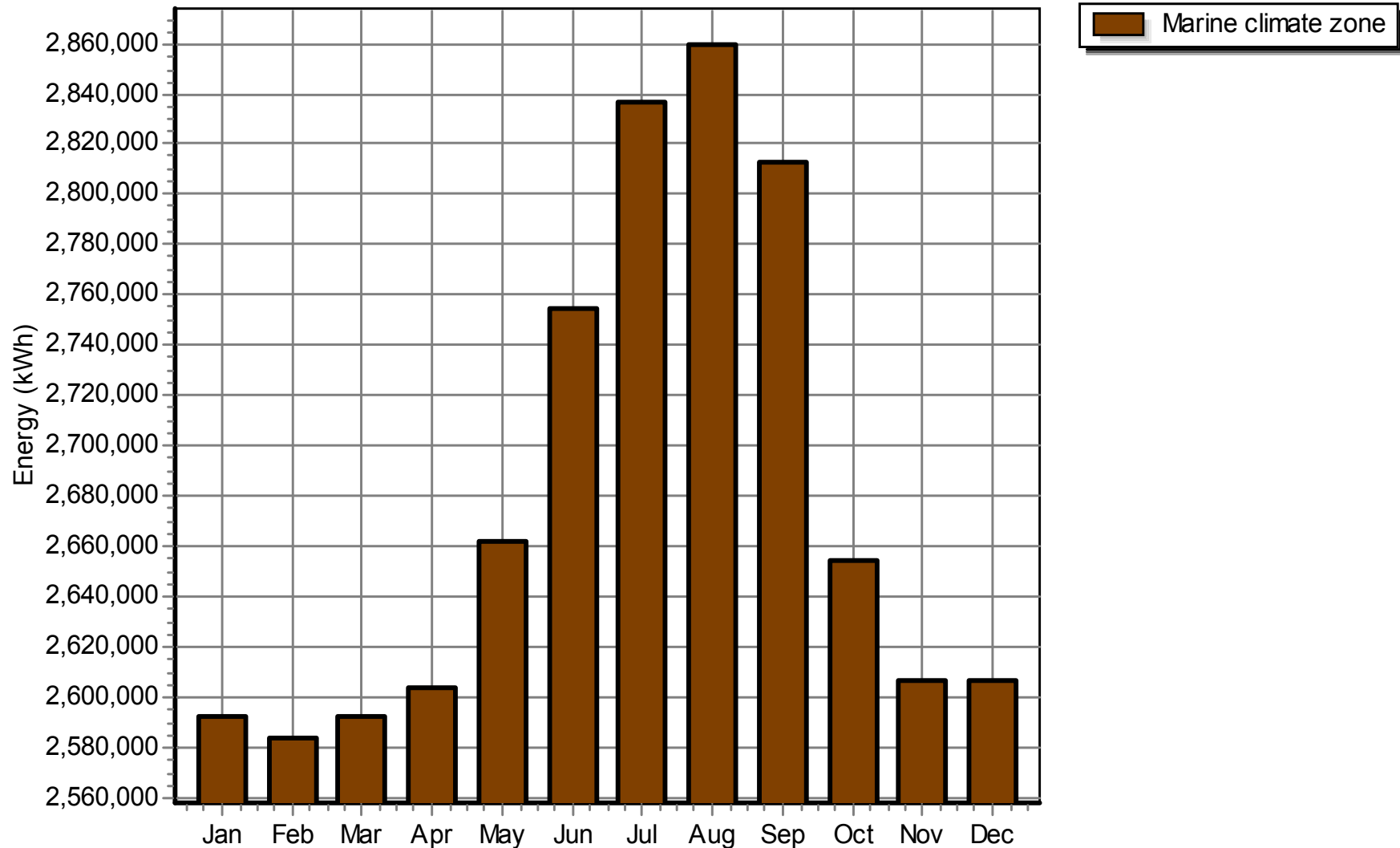
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Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Electric Energy vs. Month By Simulation



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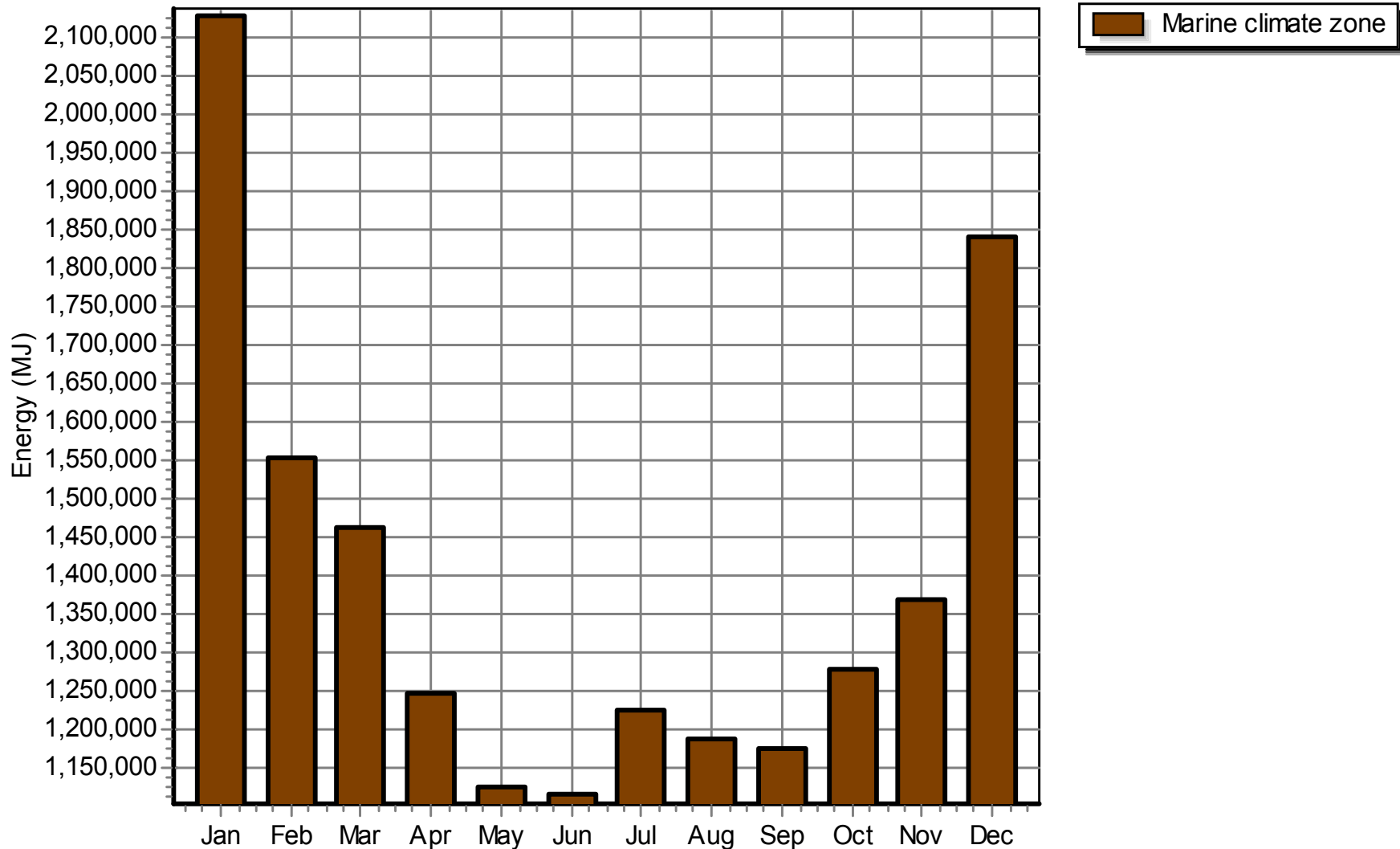
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Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



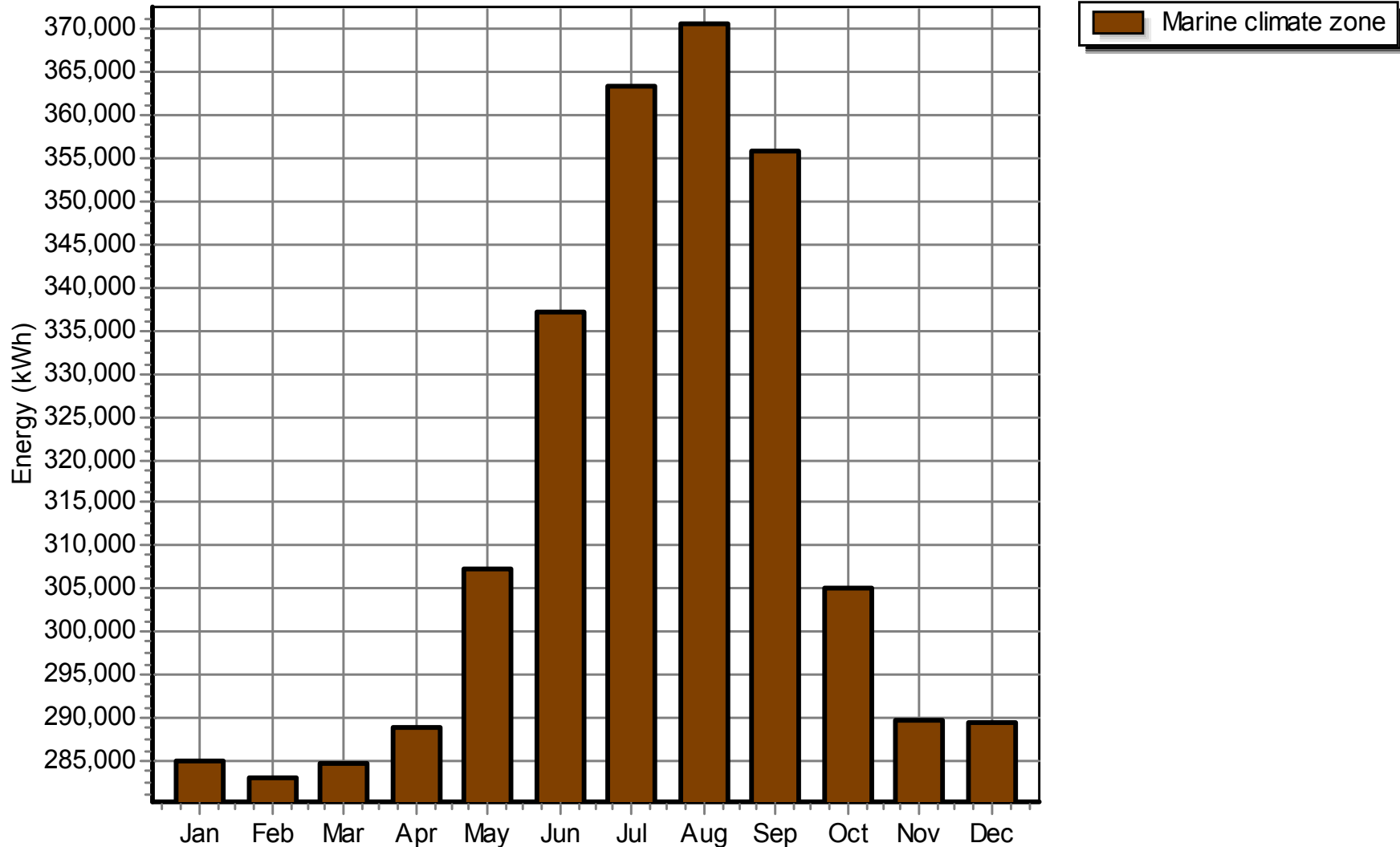
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Email: sales@handsdownsoftware.com

CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
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Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



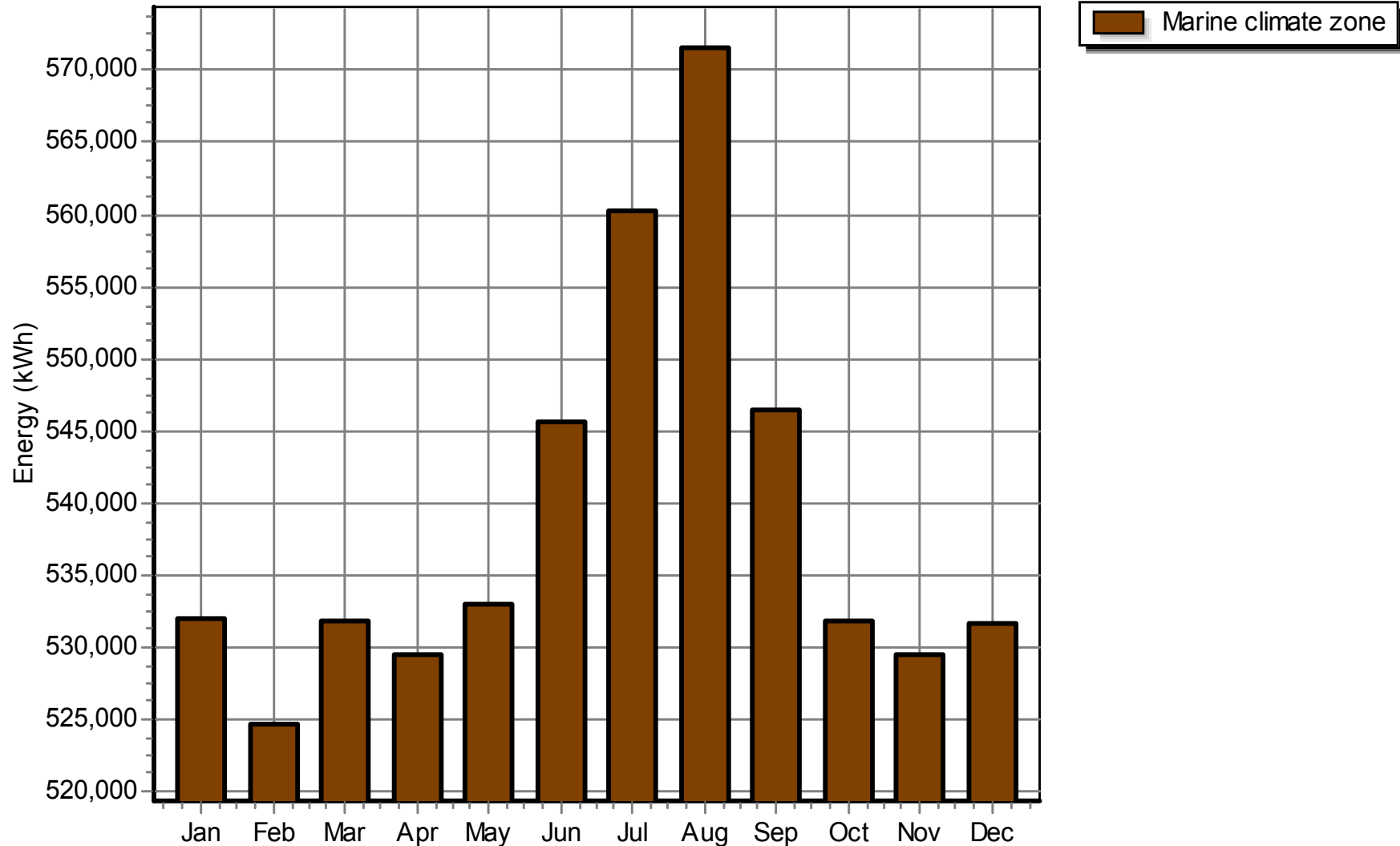
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CleanCalc
Clean Room Energy Simulation Analysis
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



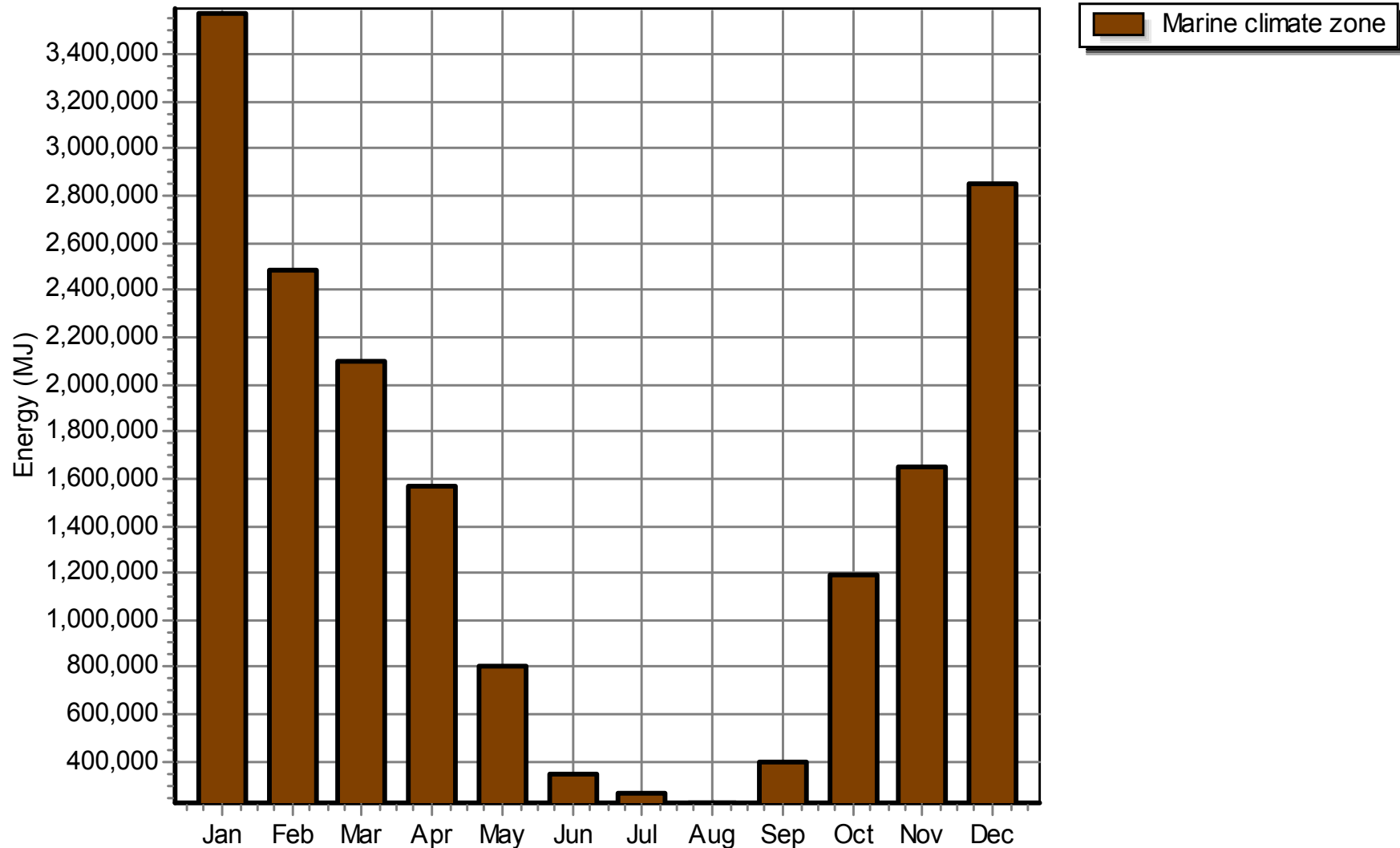
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual HVAC Fuel Energy vs. Month By Simulation



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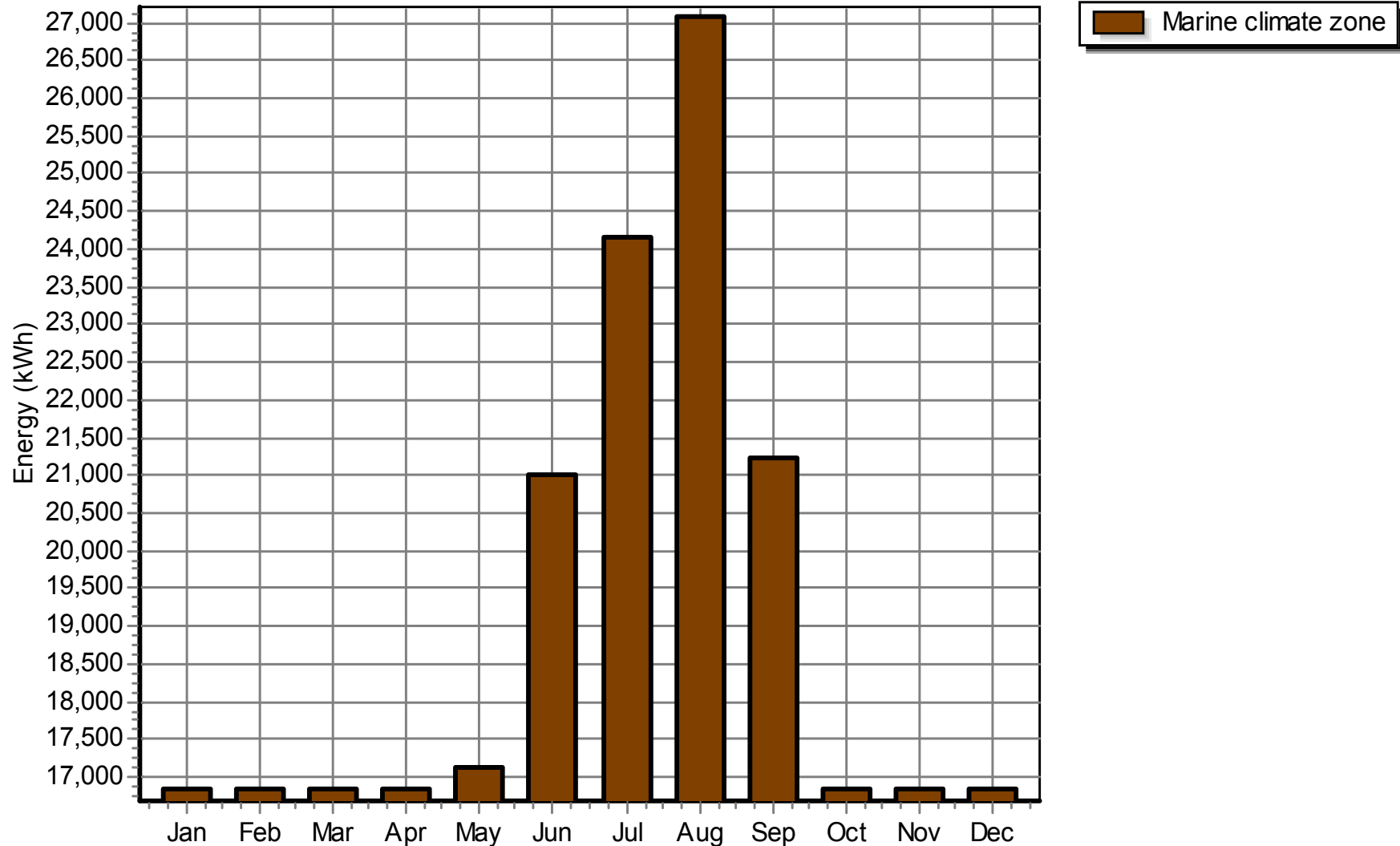
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



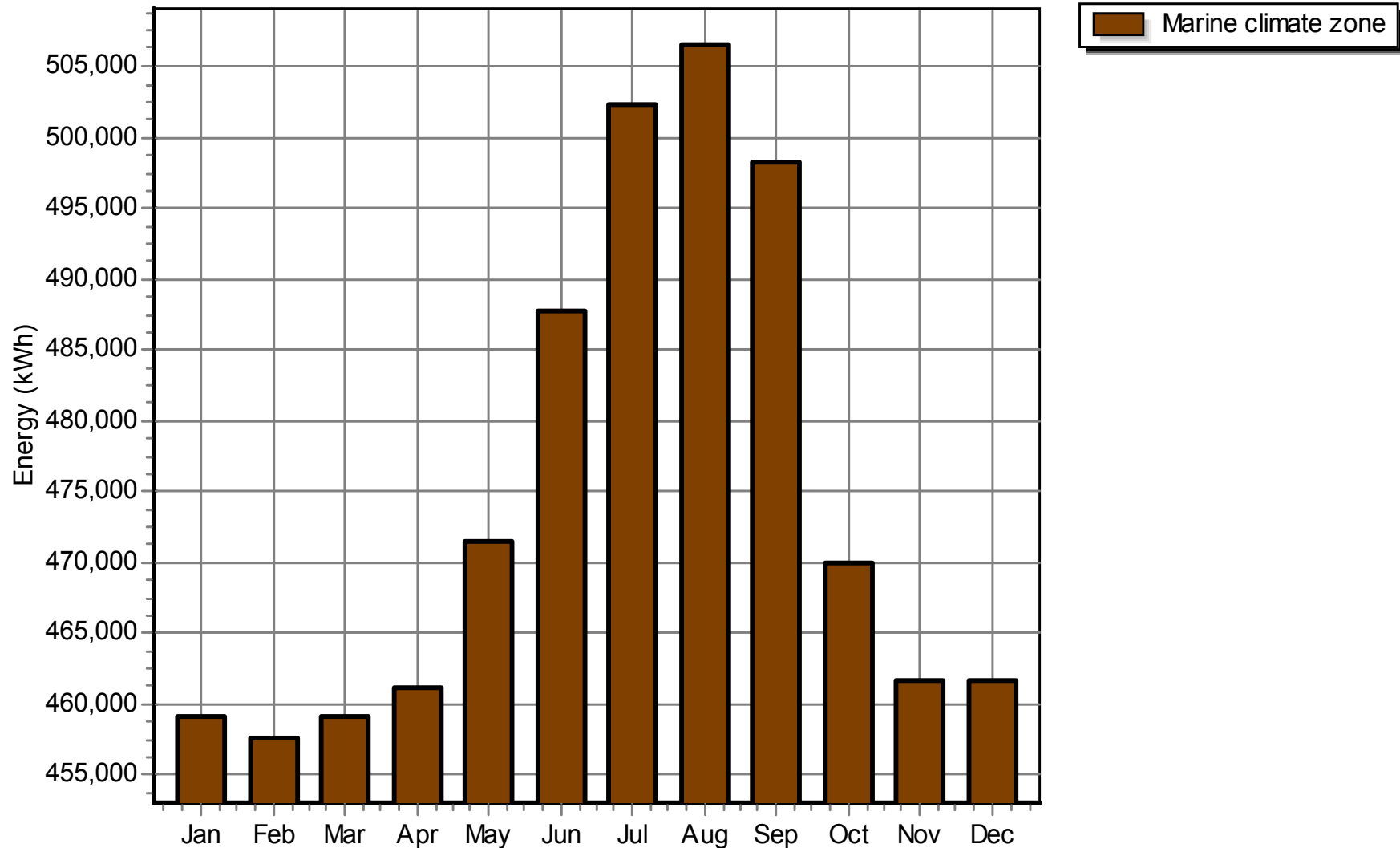
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Room TYPE: Clean Support

Room NAME: Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



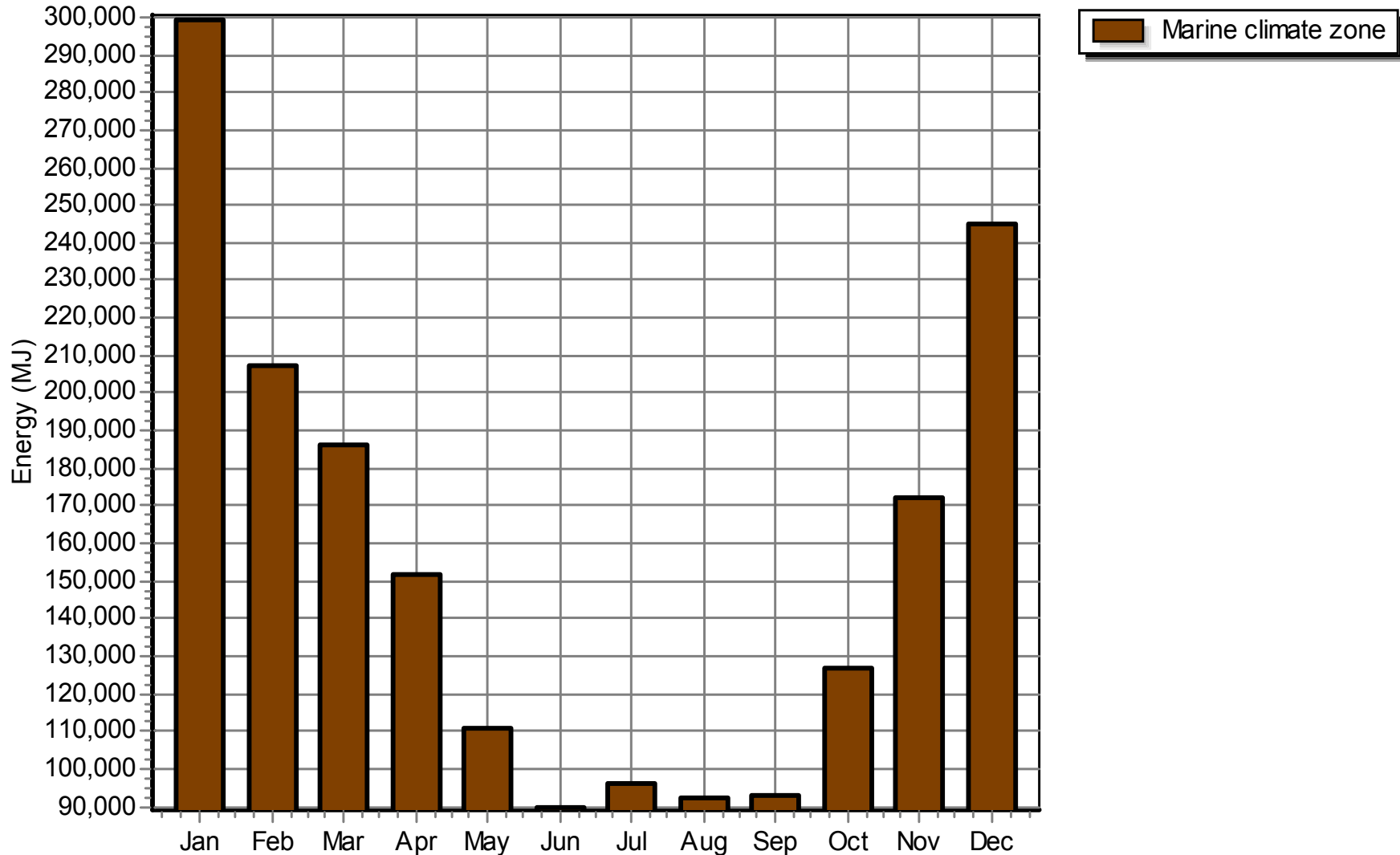
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Room TYPE: Clean Support

Room NAME: Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



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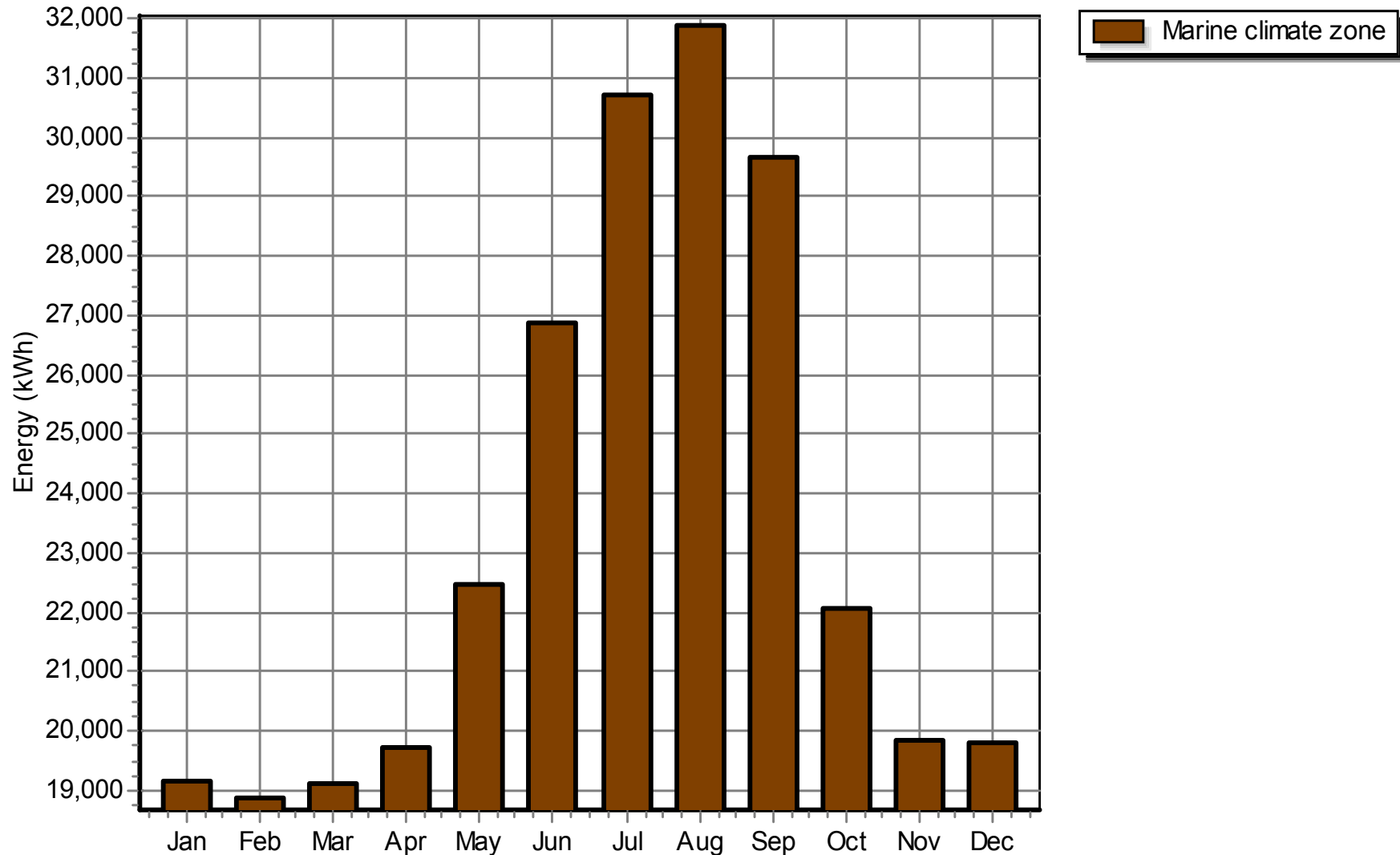
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Room TYPE: Clean Support

Room NAME: Clean Support

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



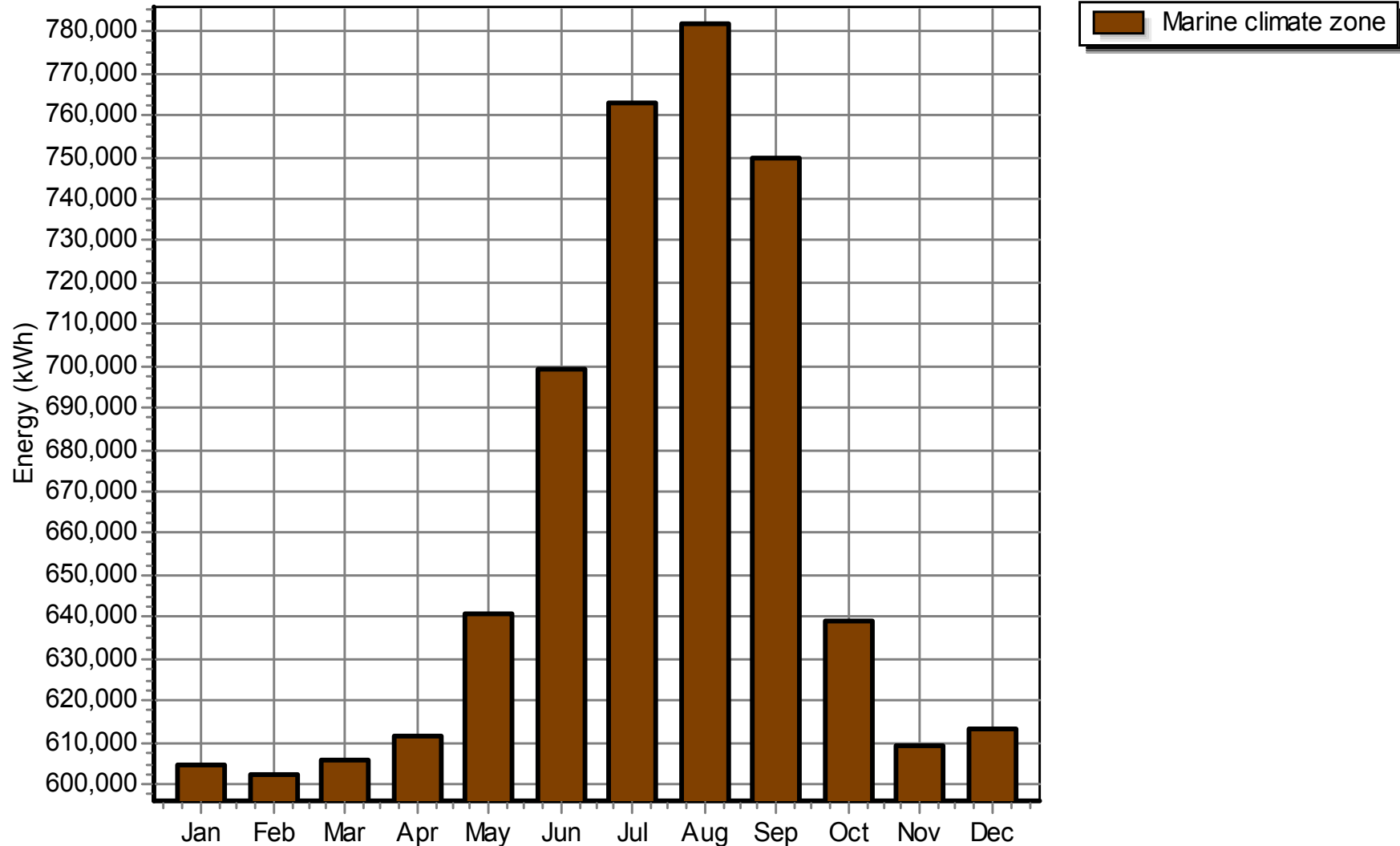
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Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

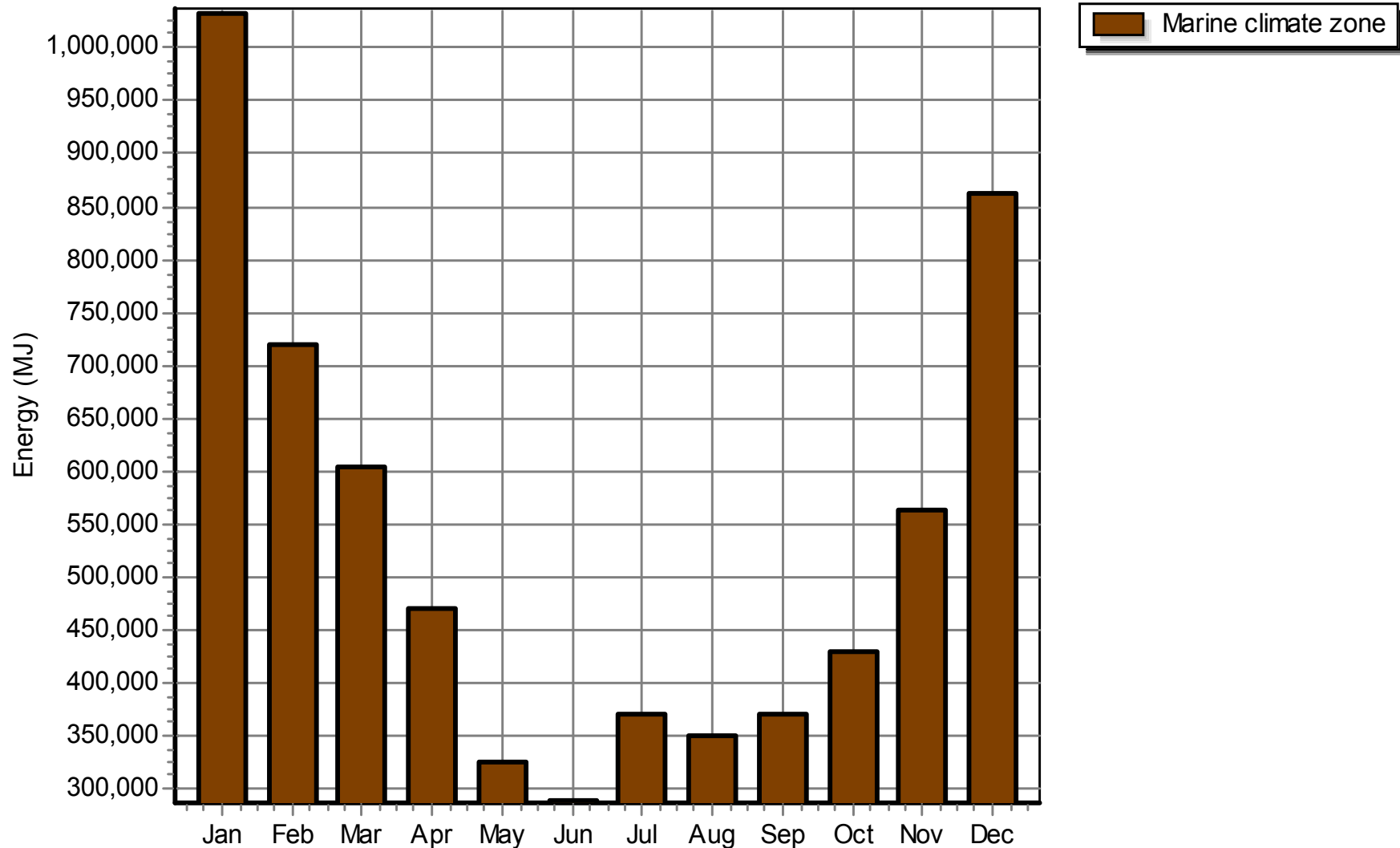


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Room TYPE: Non Clean Support Room NAME: Non-Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



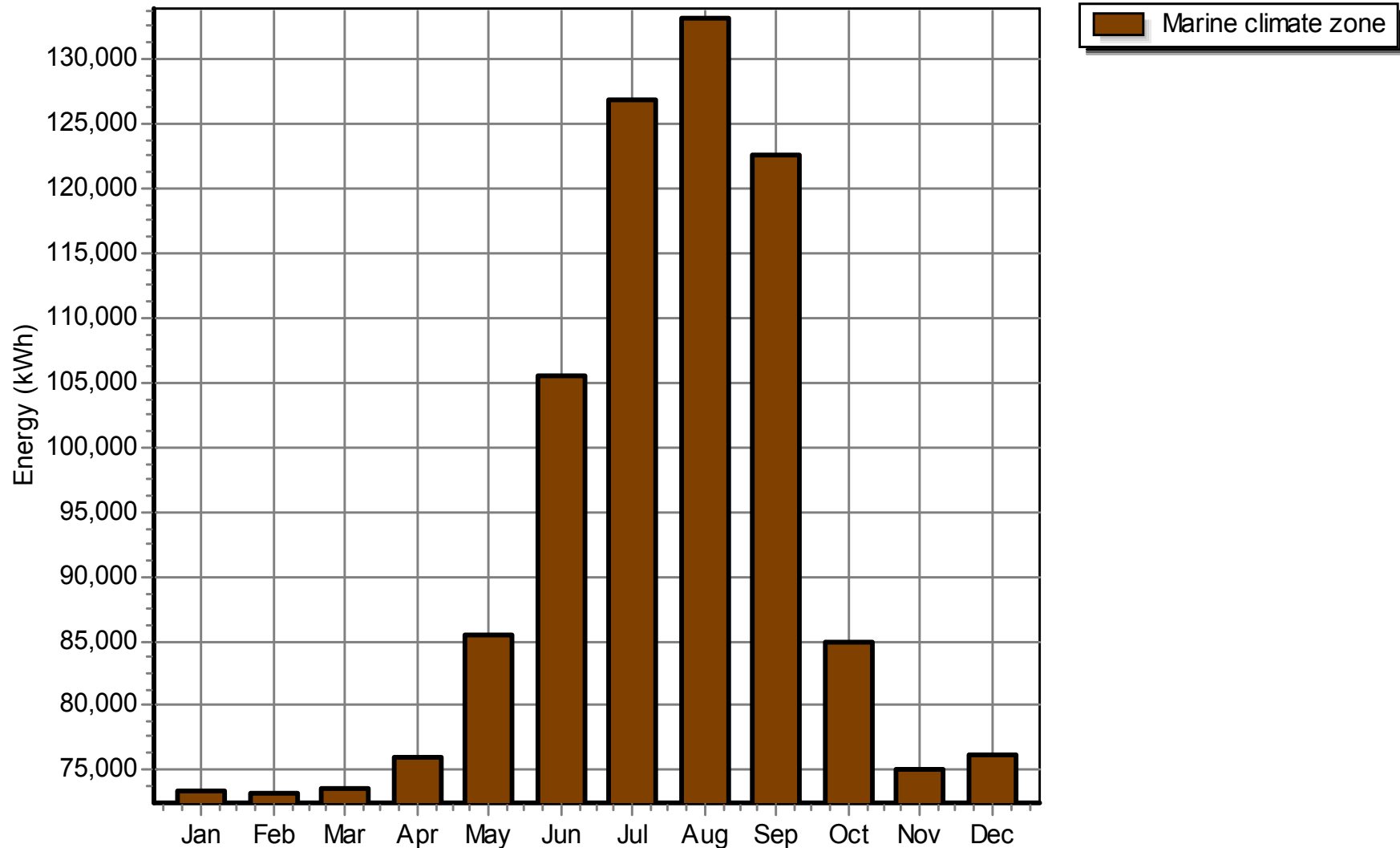
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Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



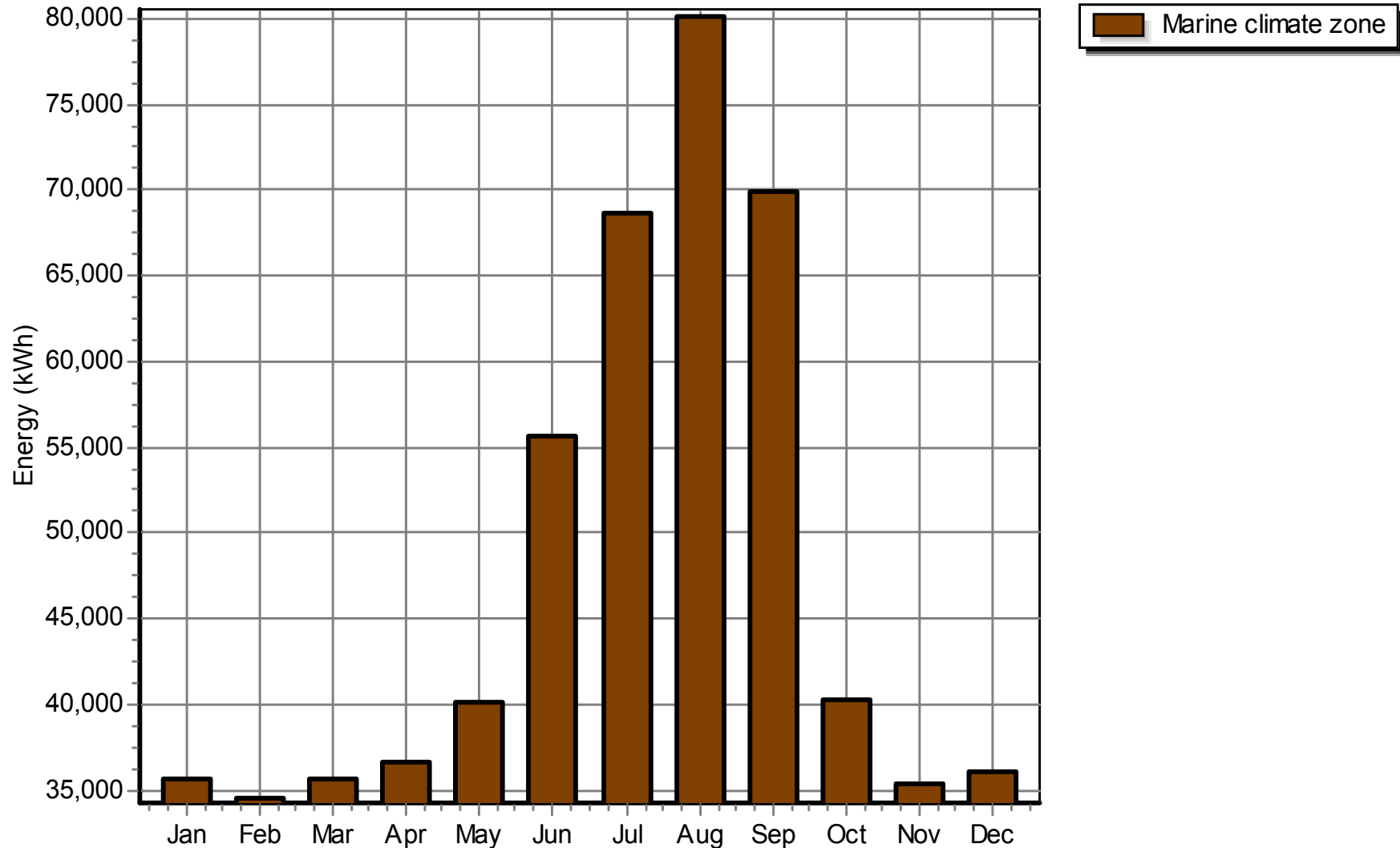
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



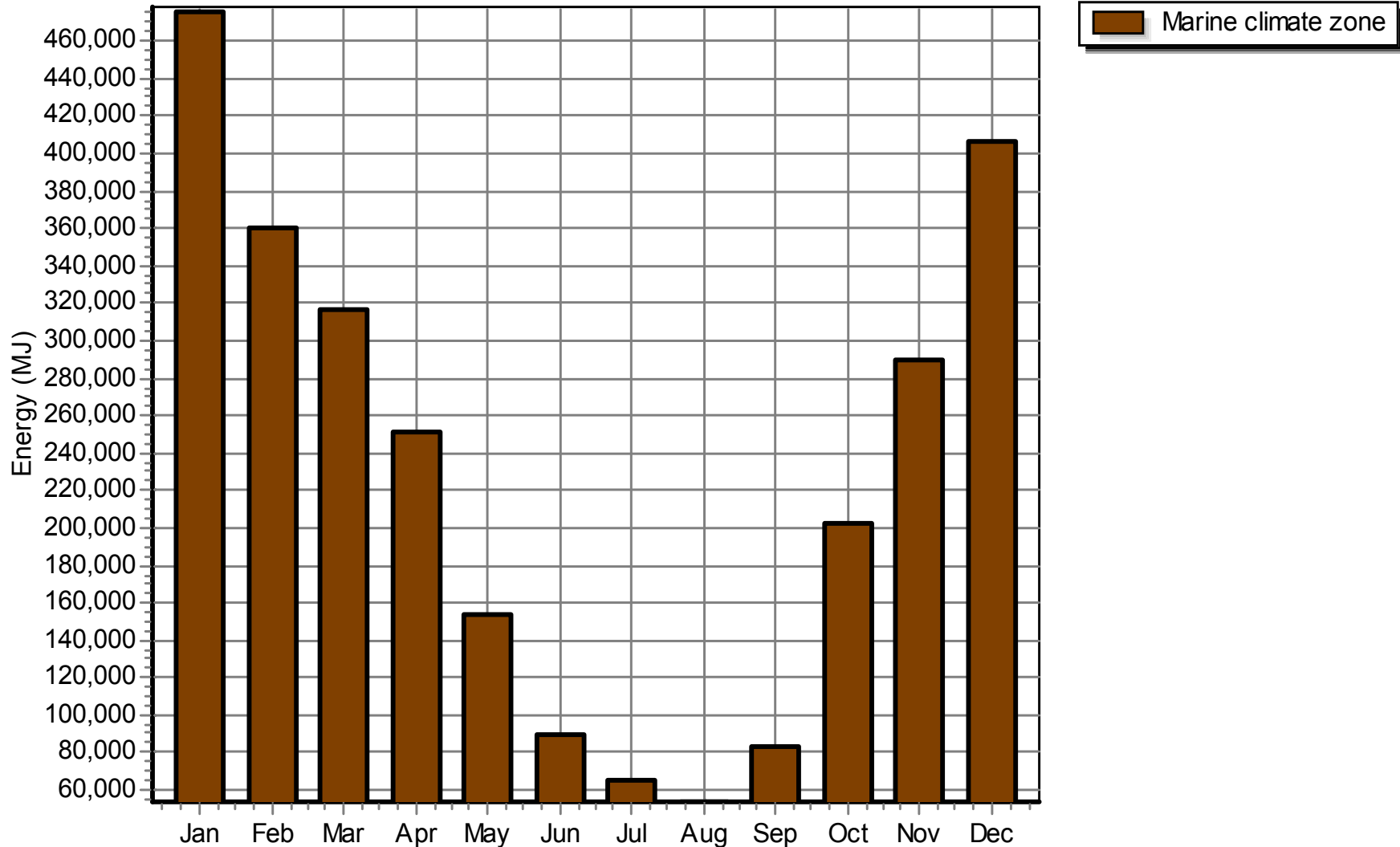
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



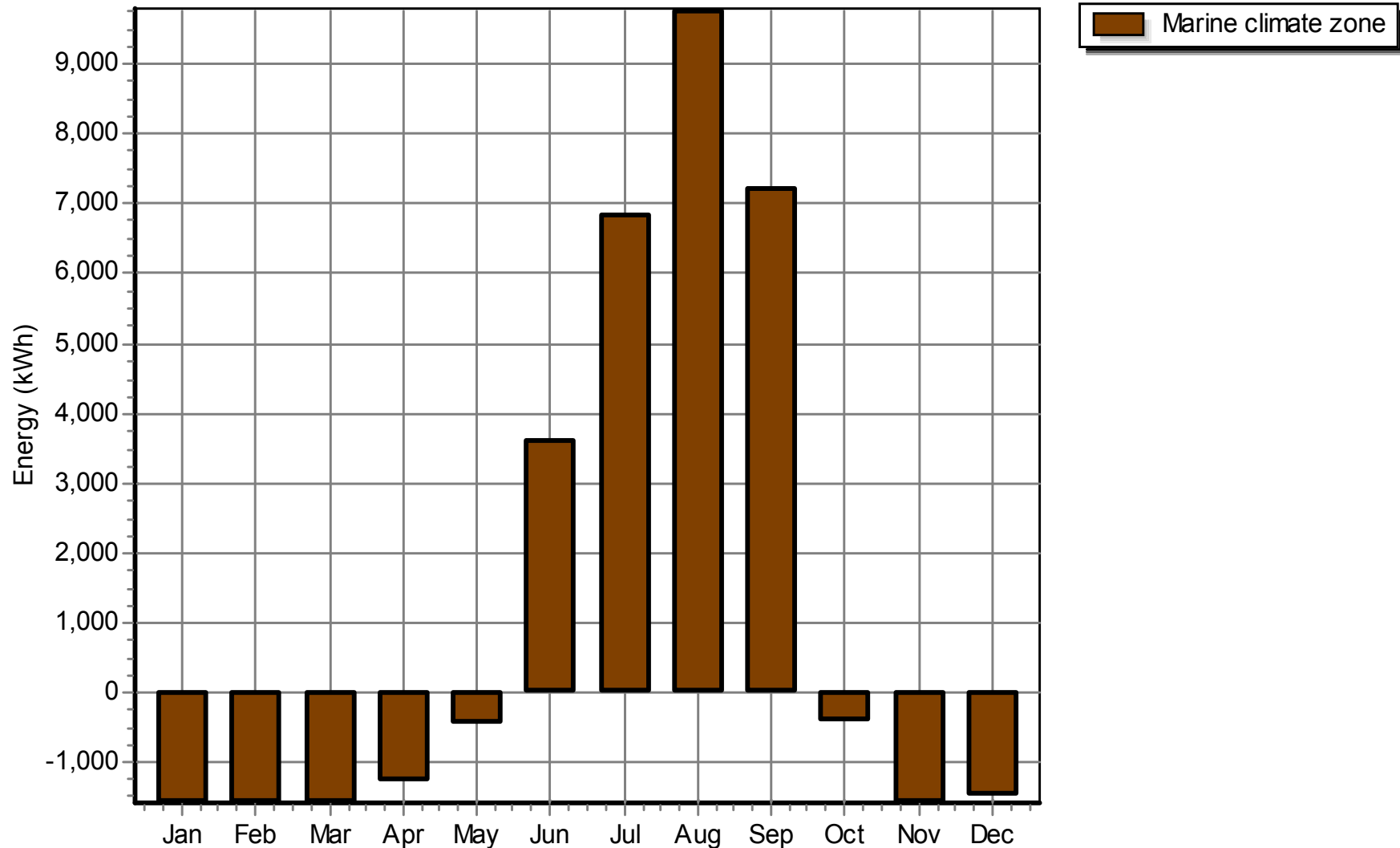
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



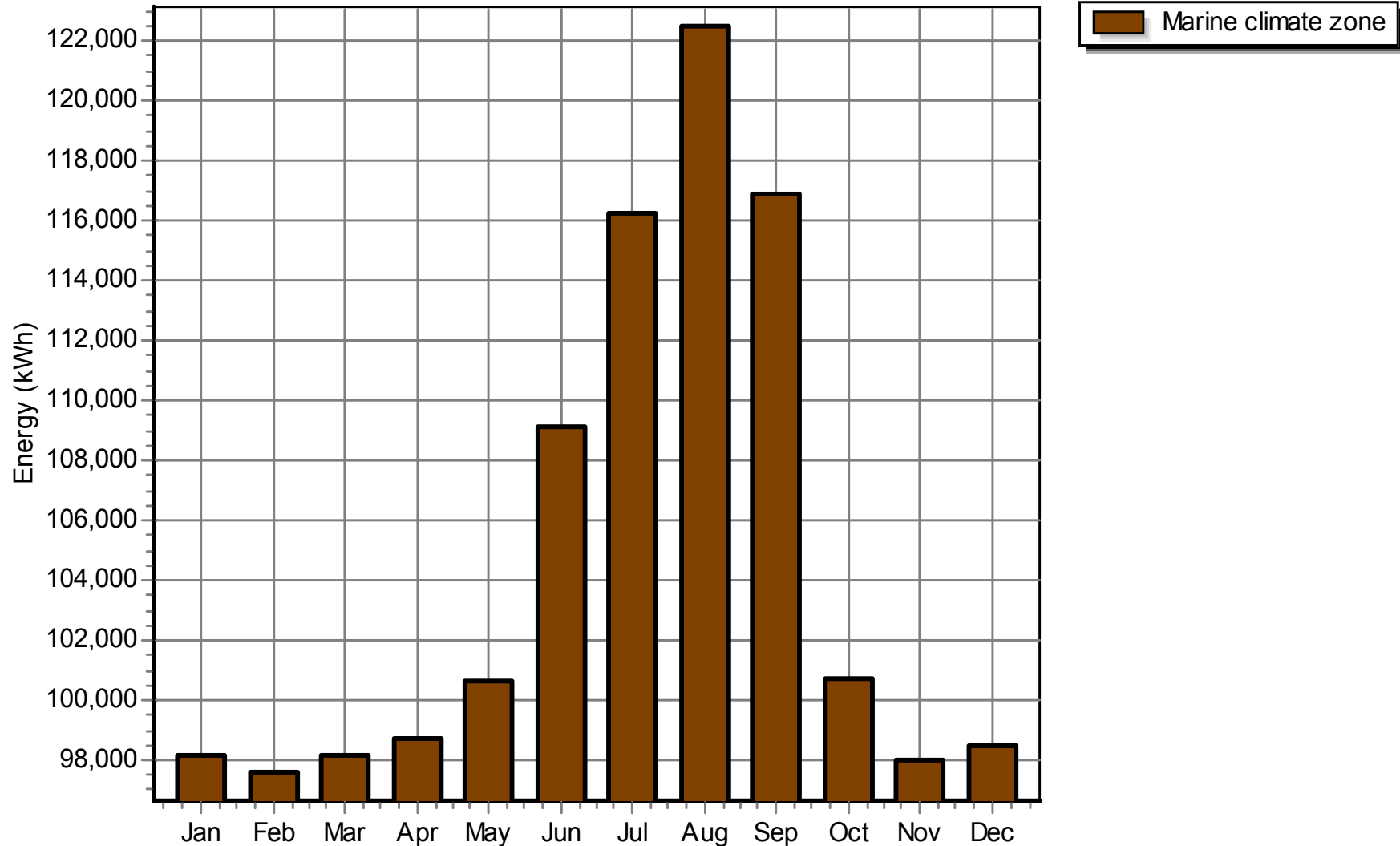
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



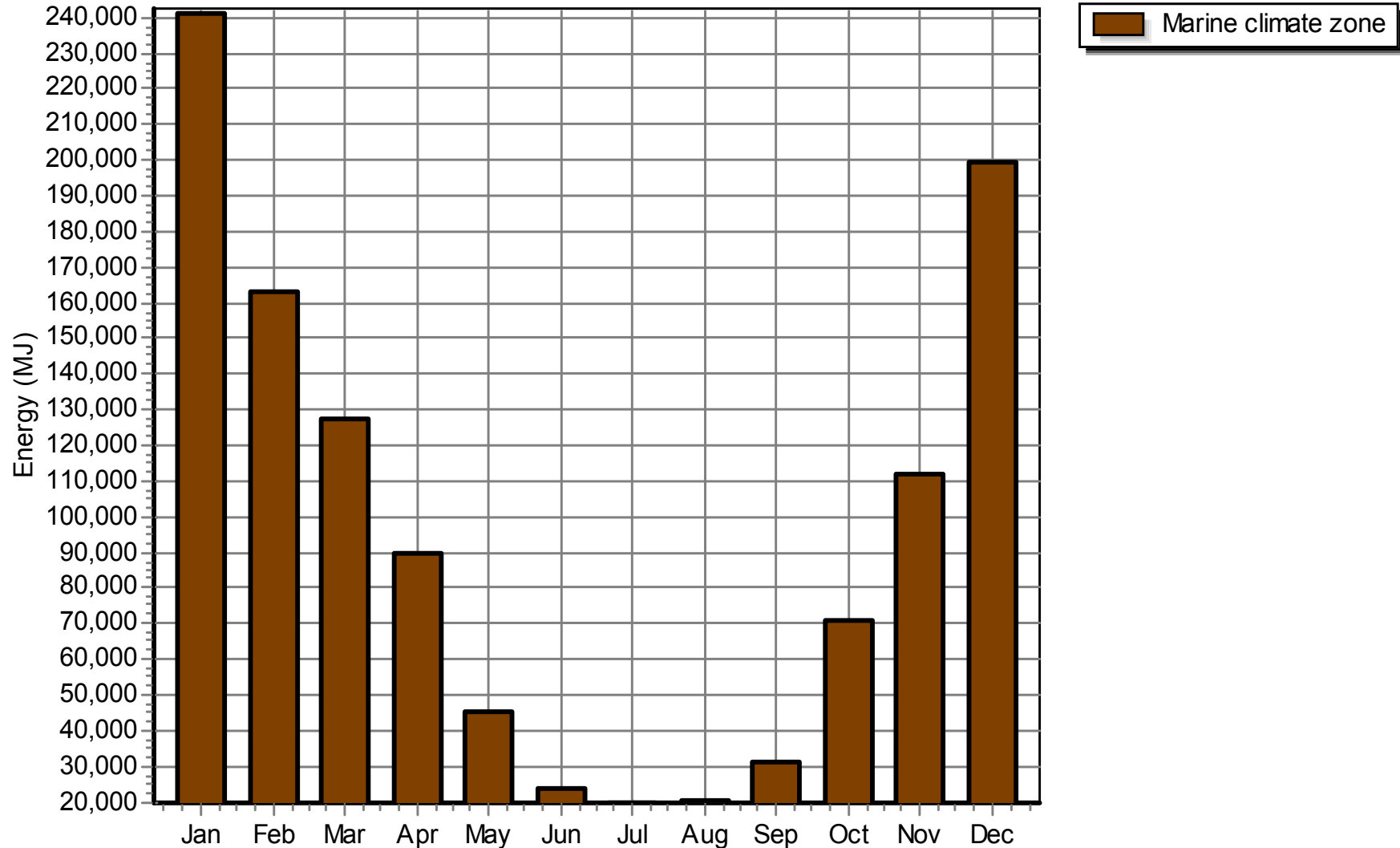
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



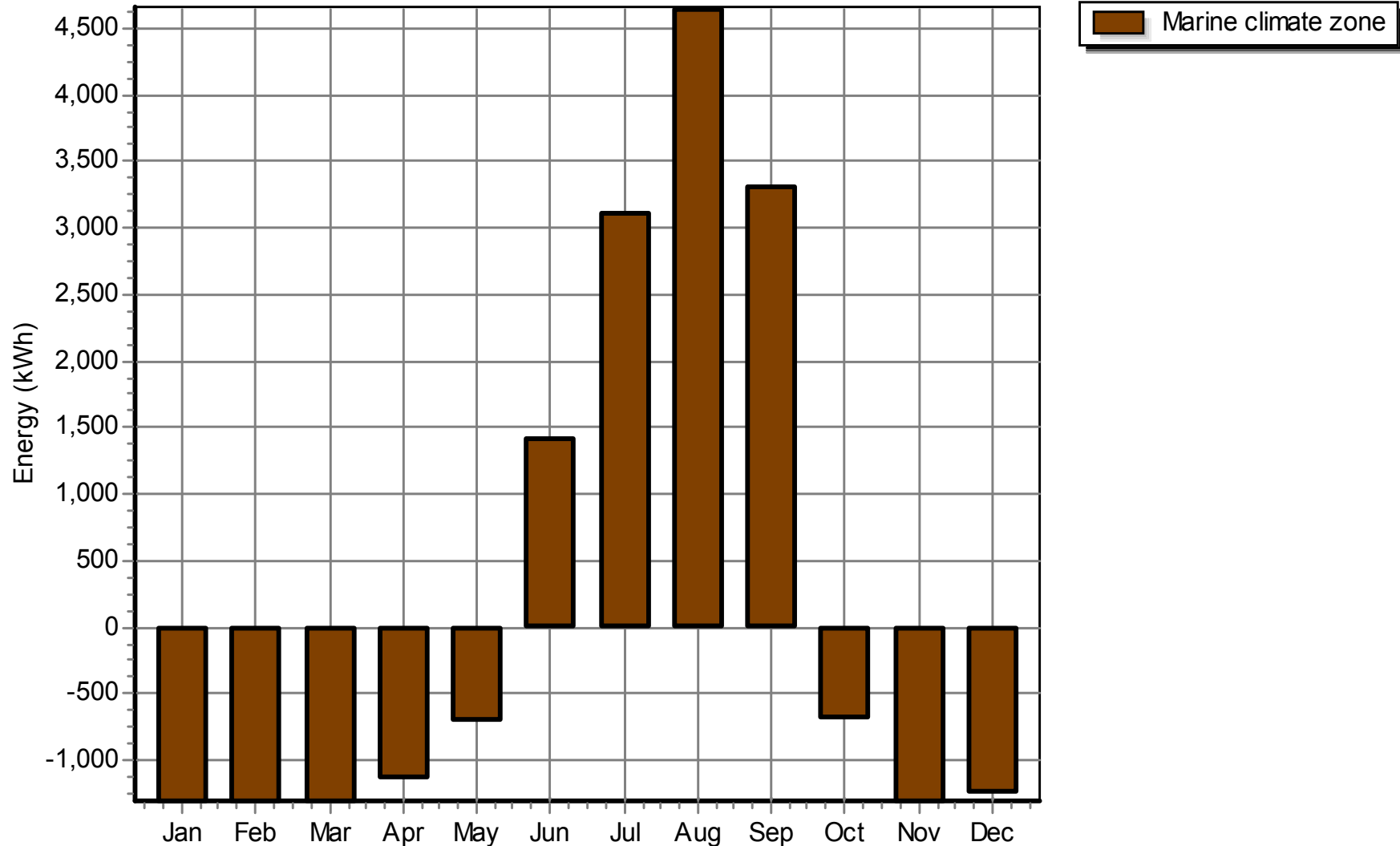
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



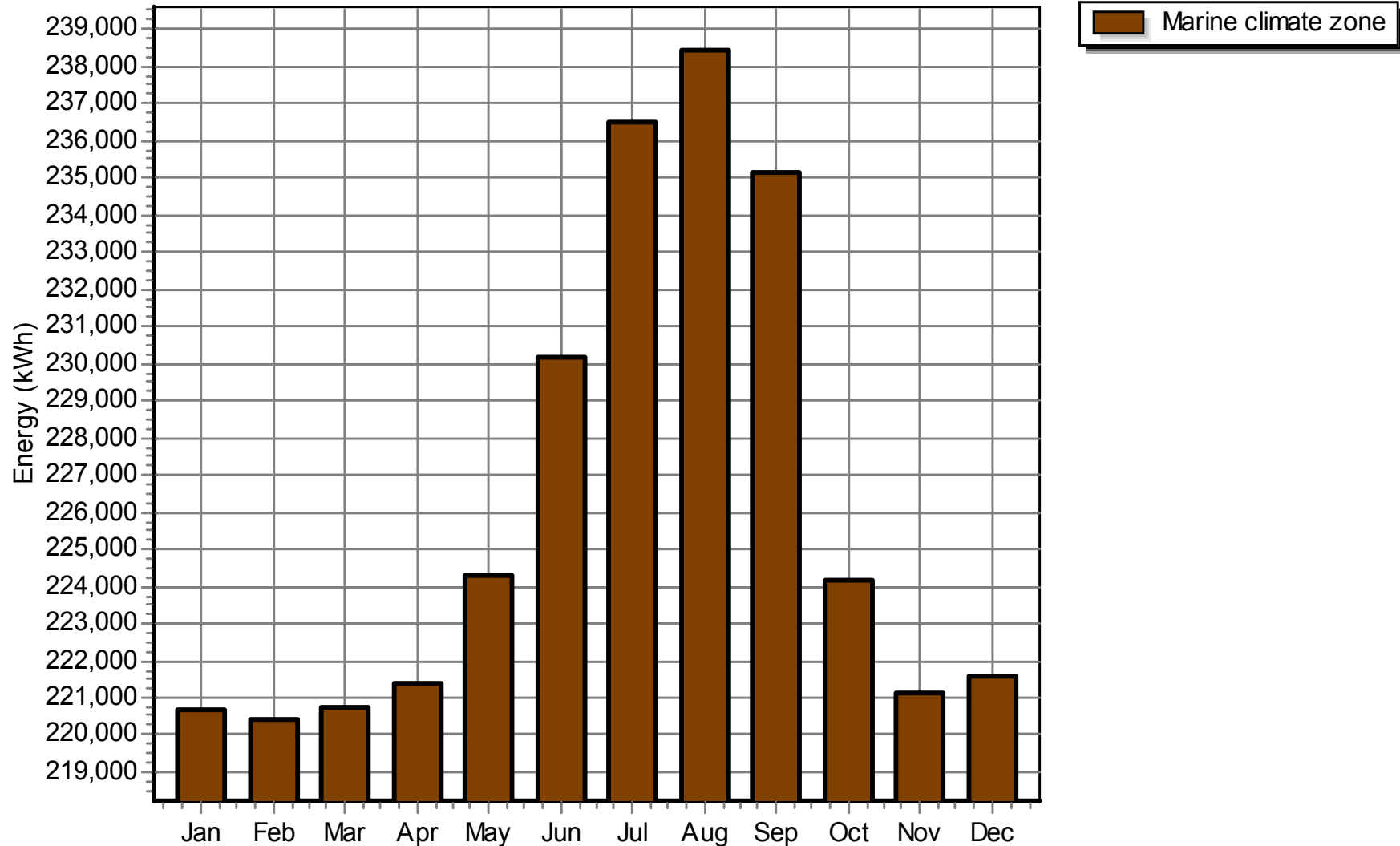
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Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

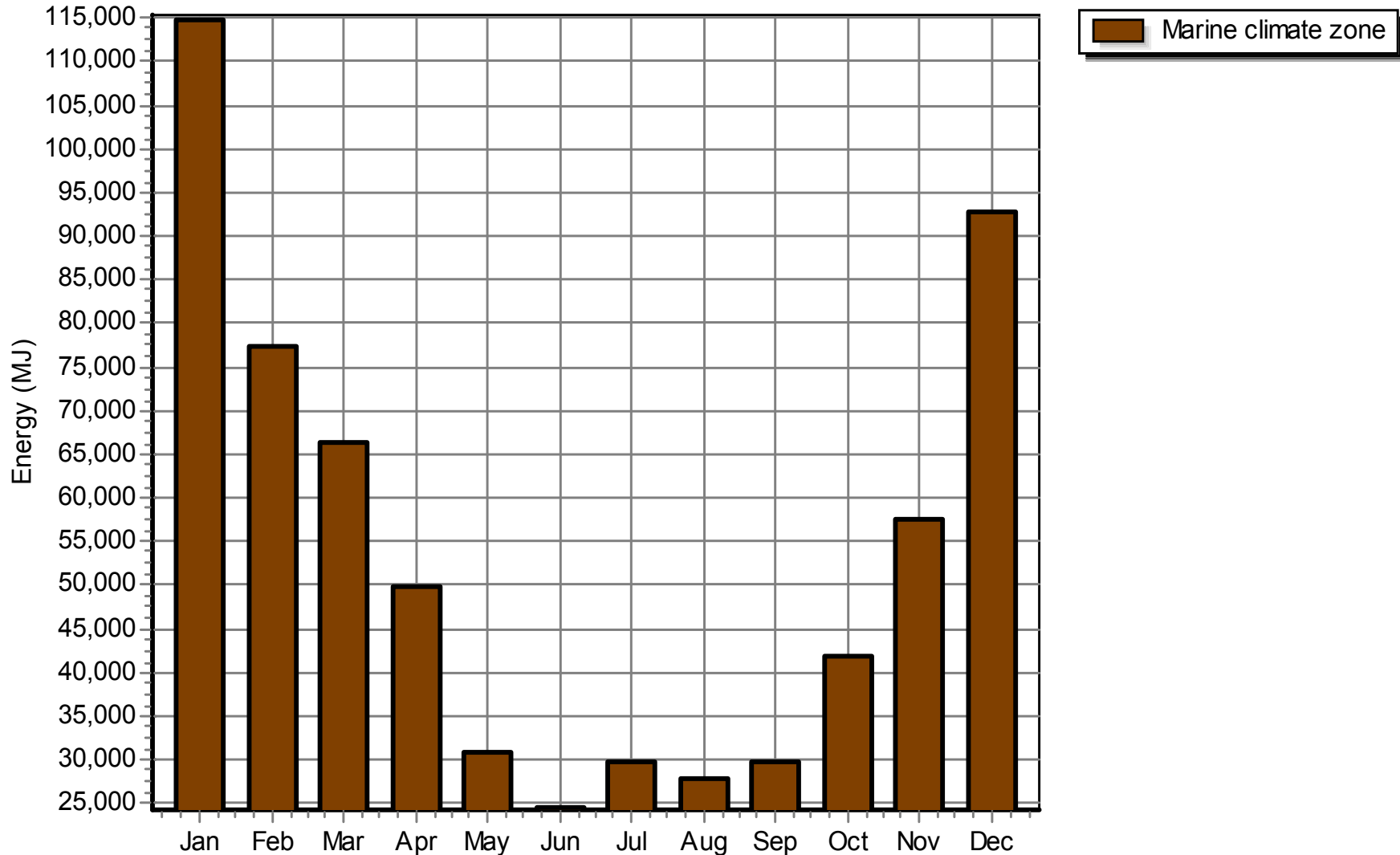


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2/1/2010

Room TYPE: Computer Room Room NAME: Computer Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



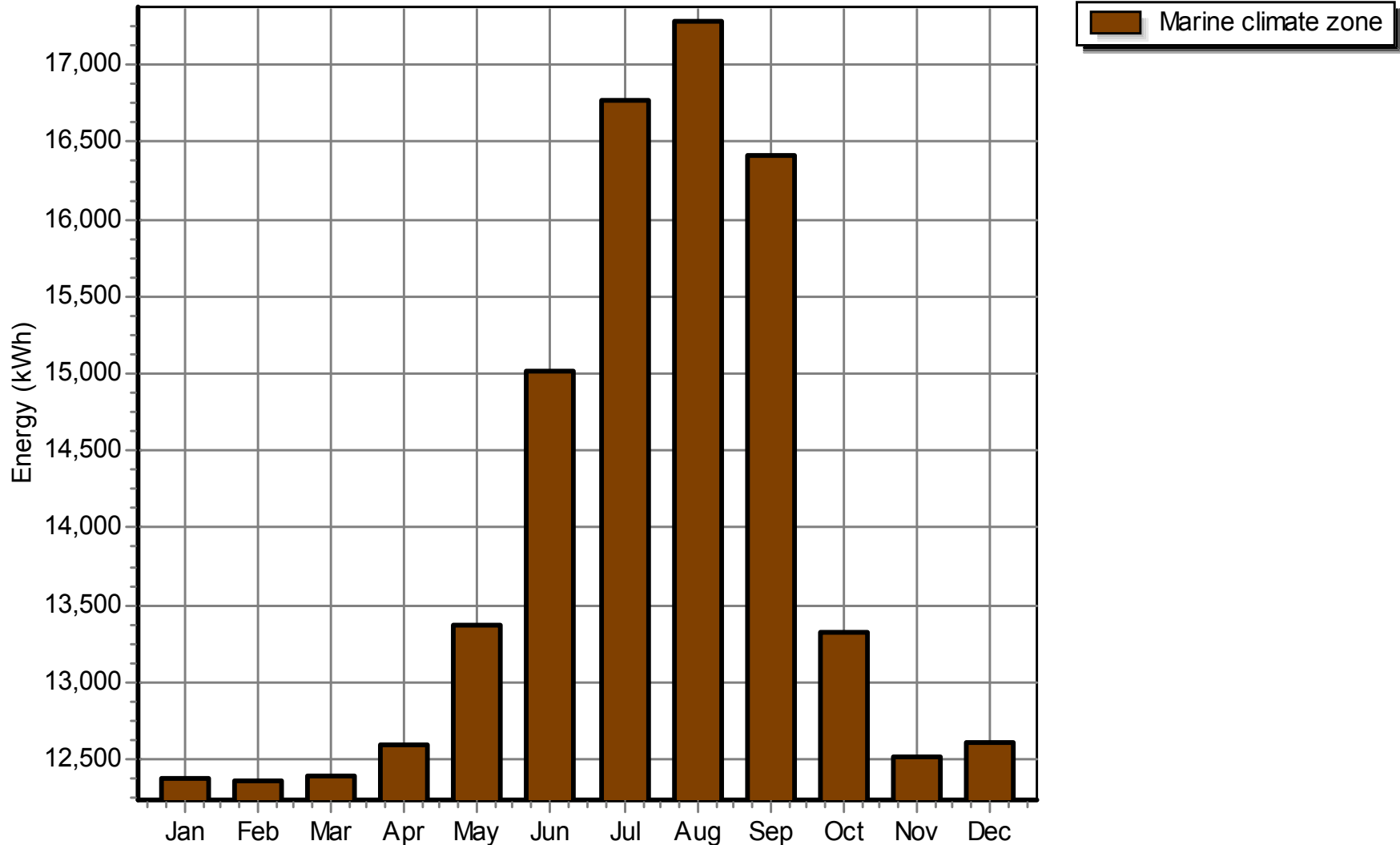
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Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



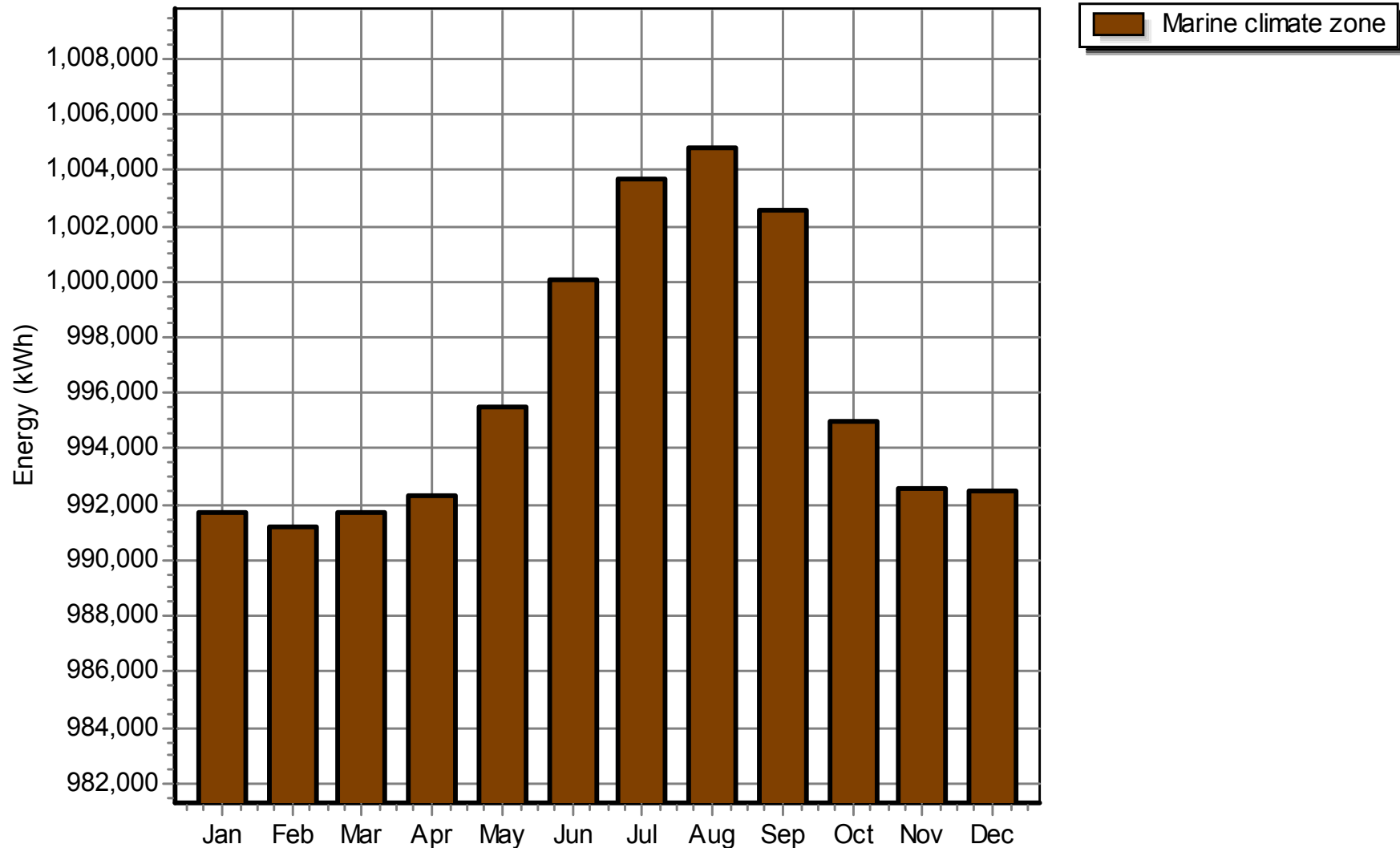
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2/1/2010

Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



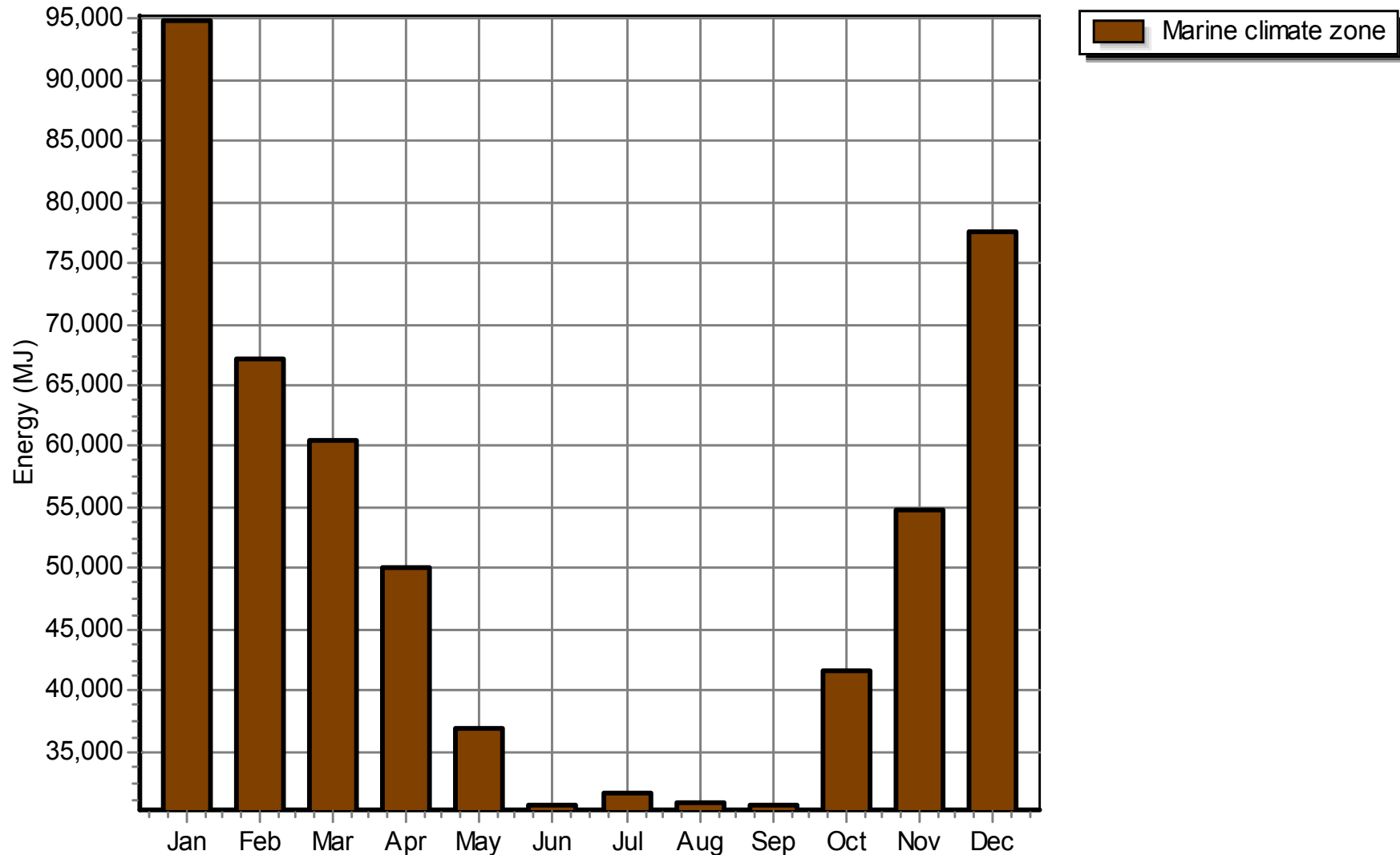
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2/1/2010

Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



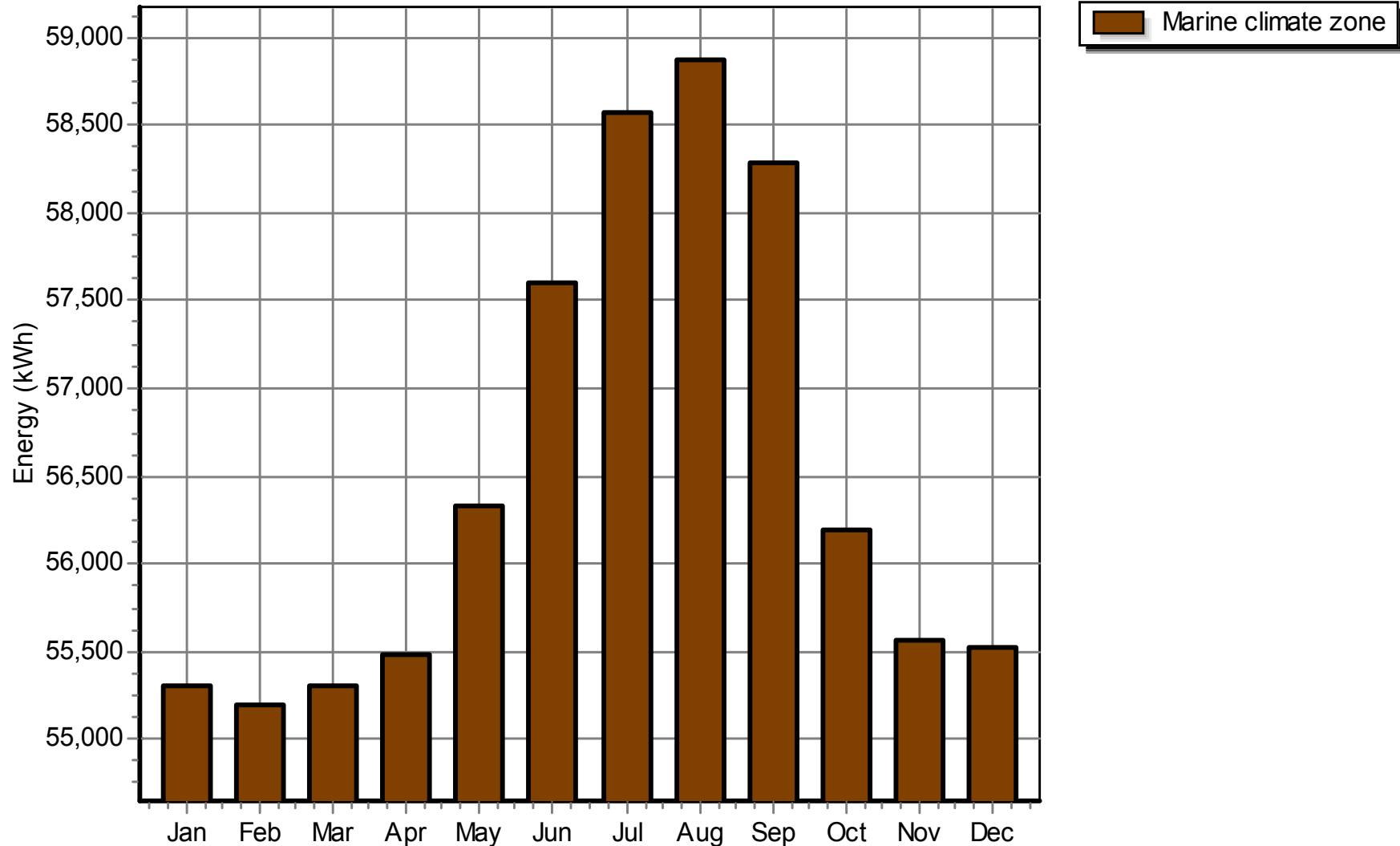
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Version 2.9.11
2/1/2010

Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

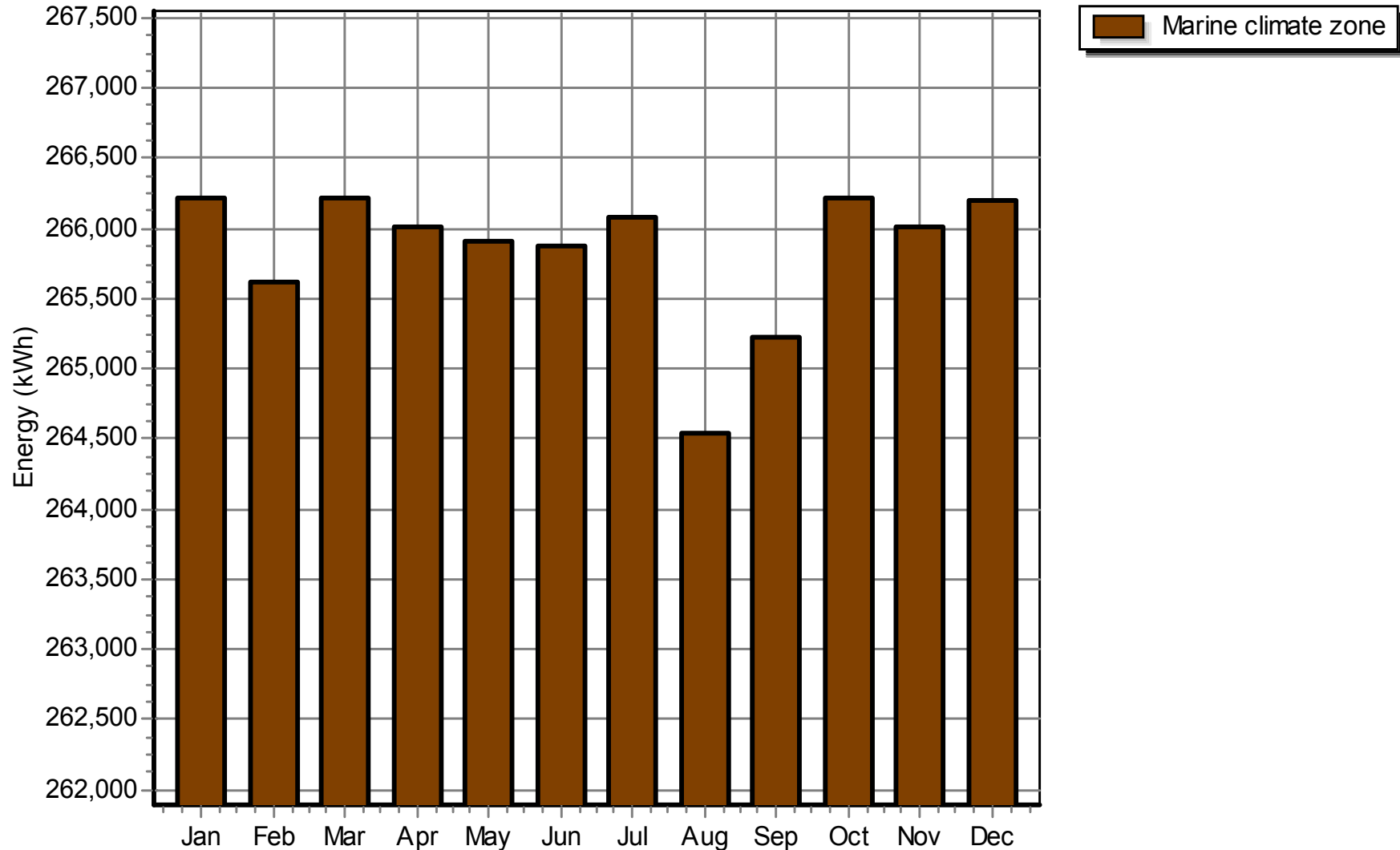


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

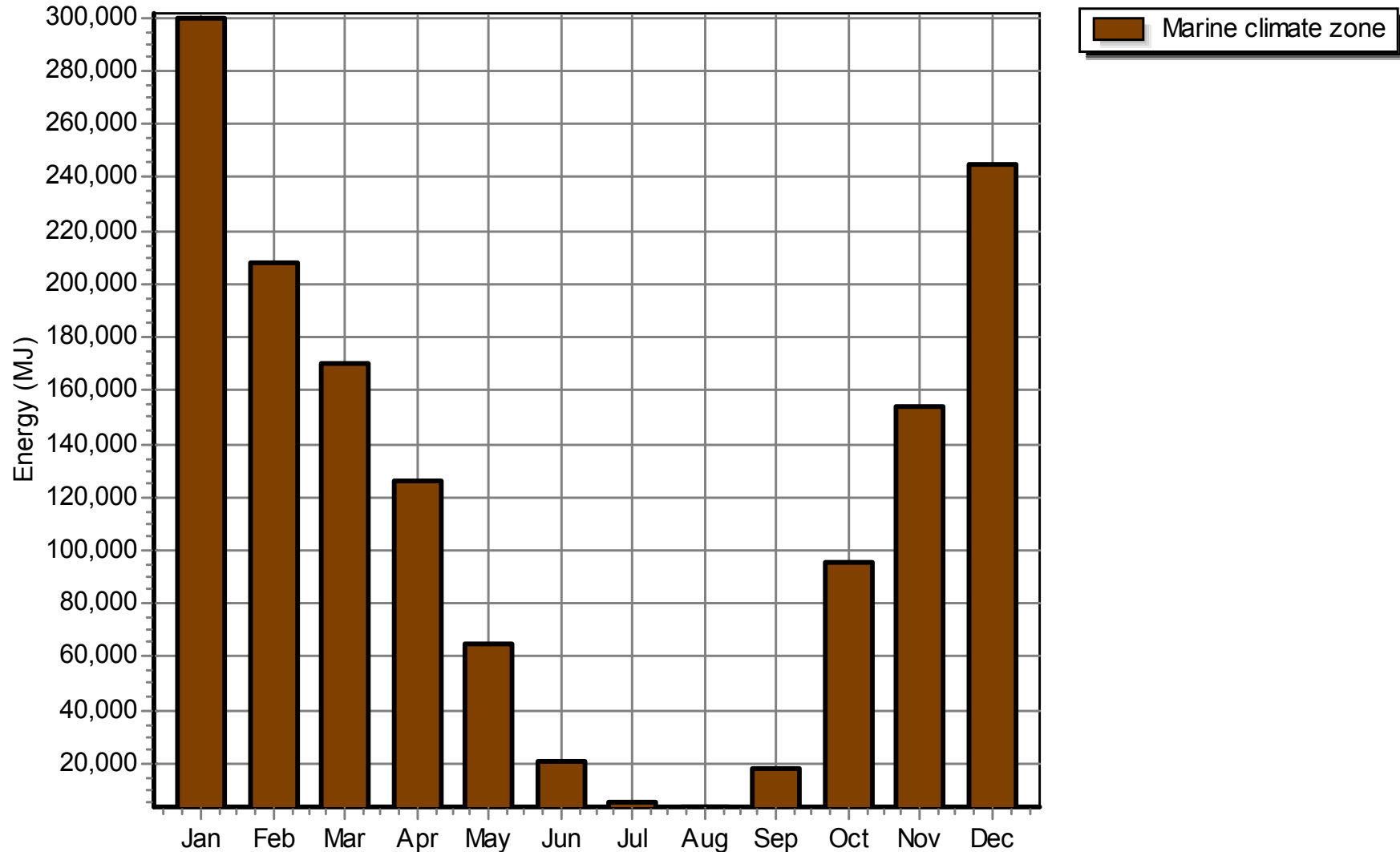


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2/1/2010

Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

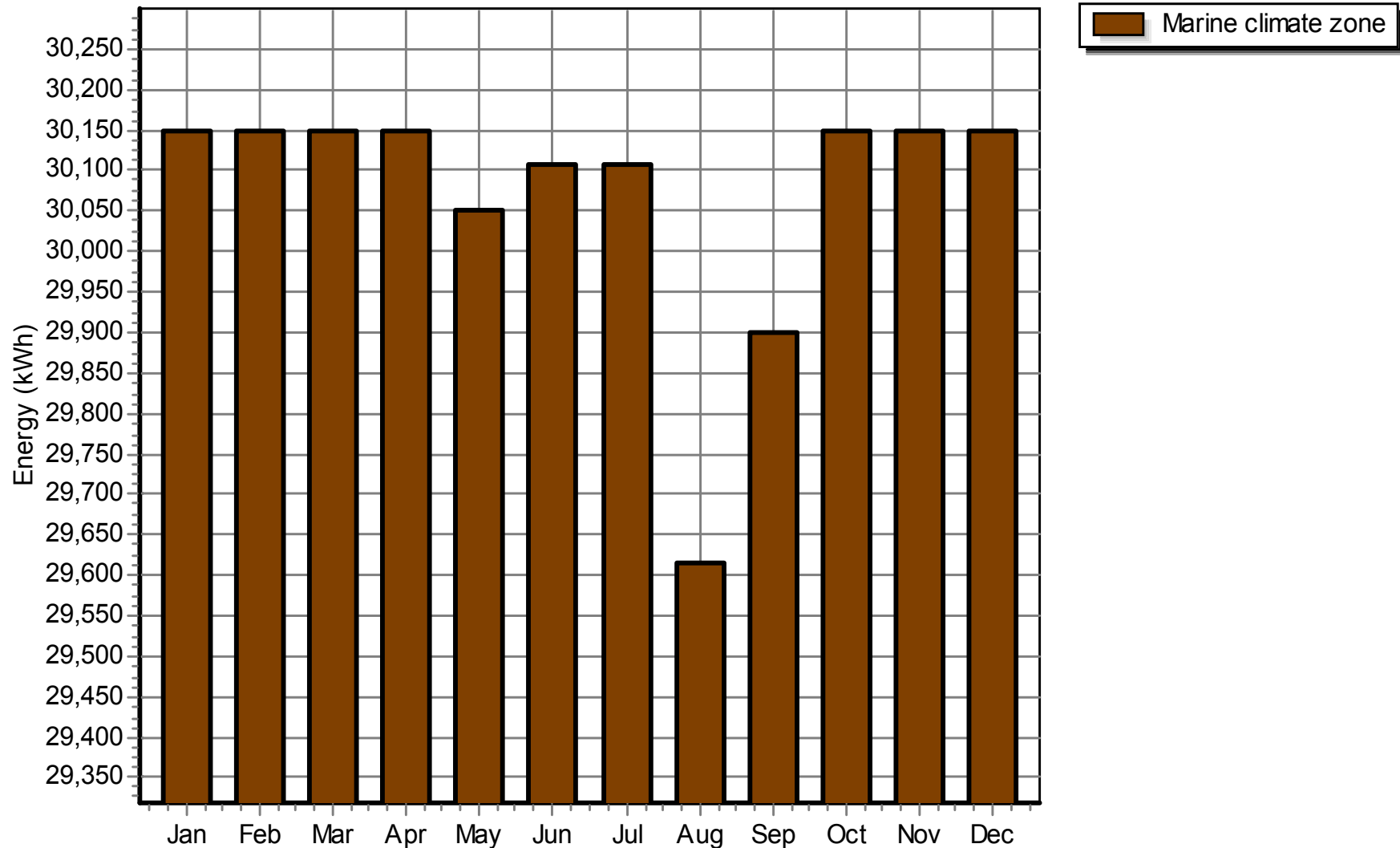


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

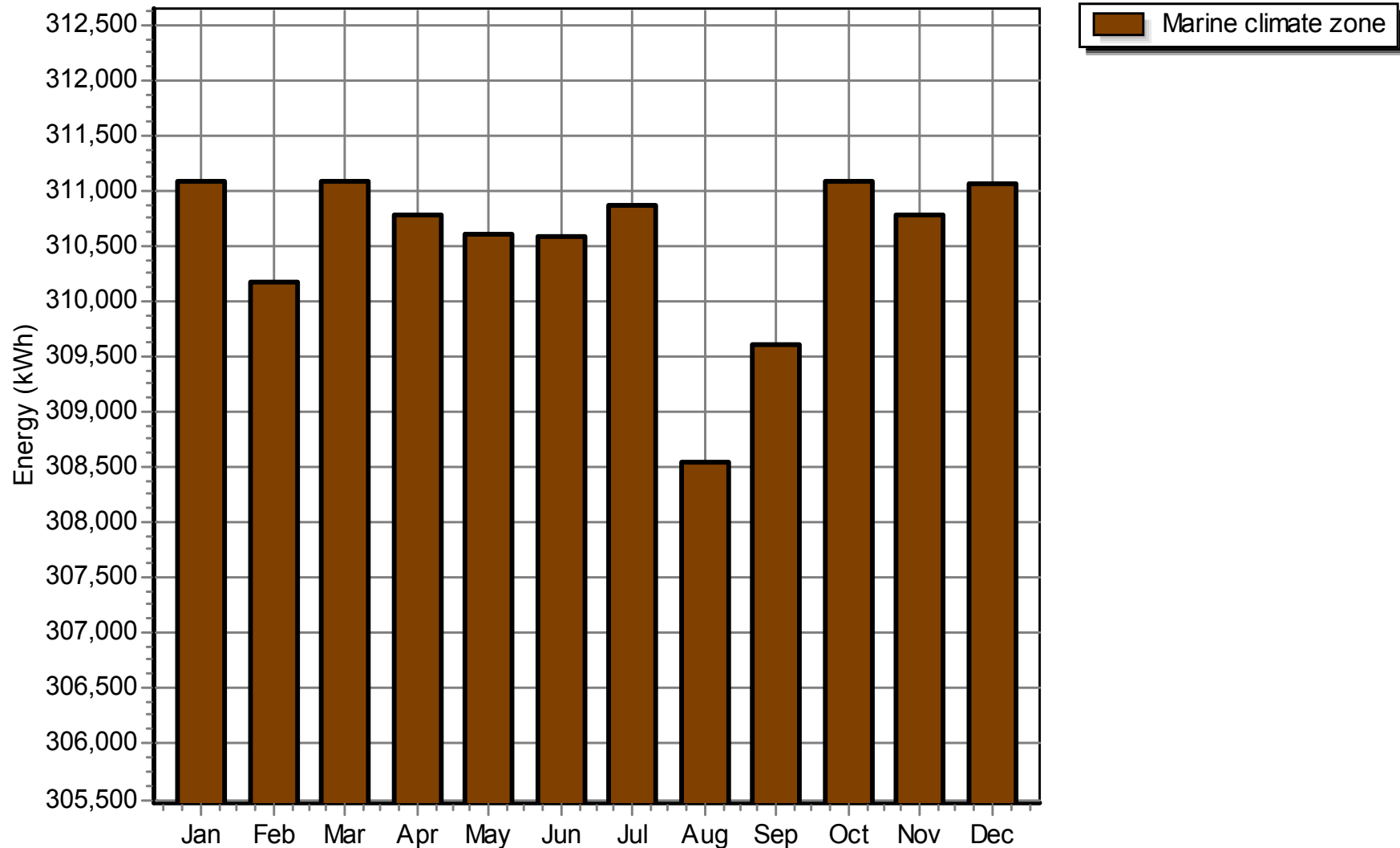


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Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

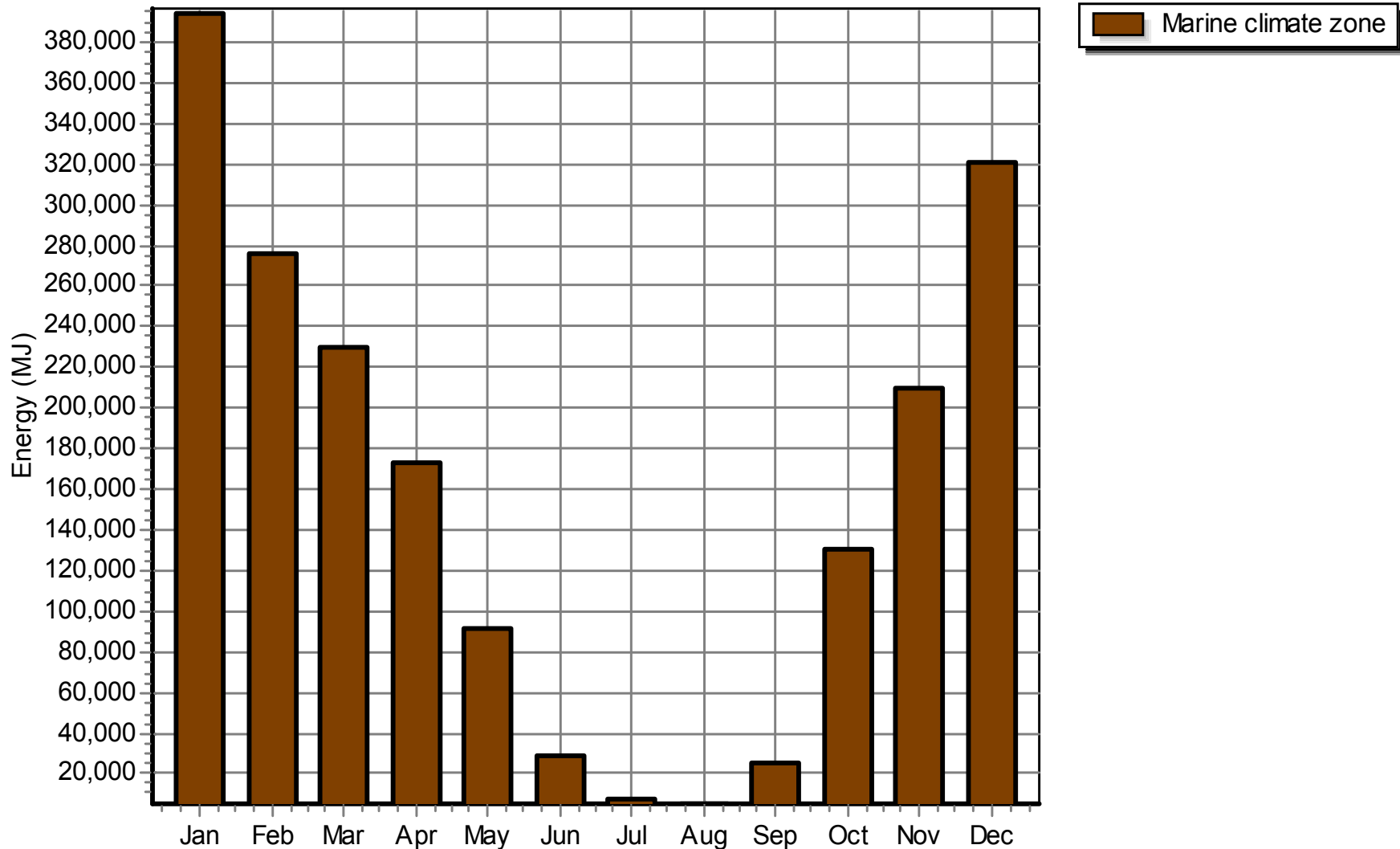


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2/1/2010

Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

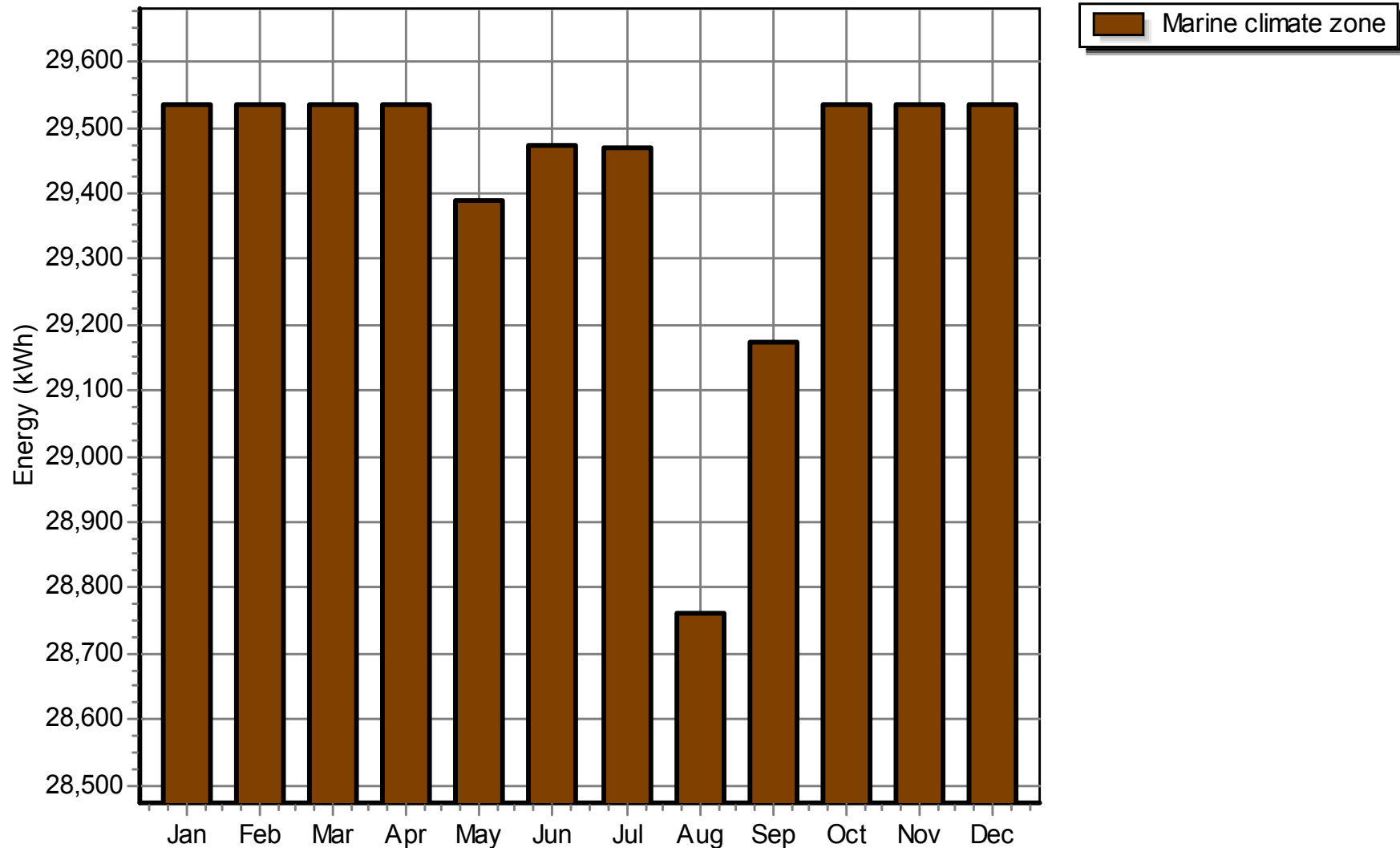


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2/1/2010

Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

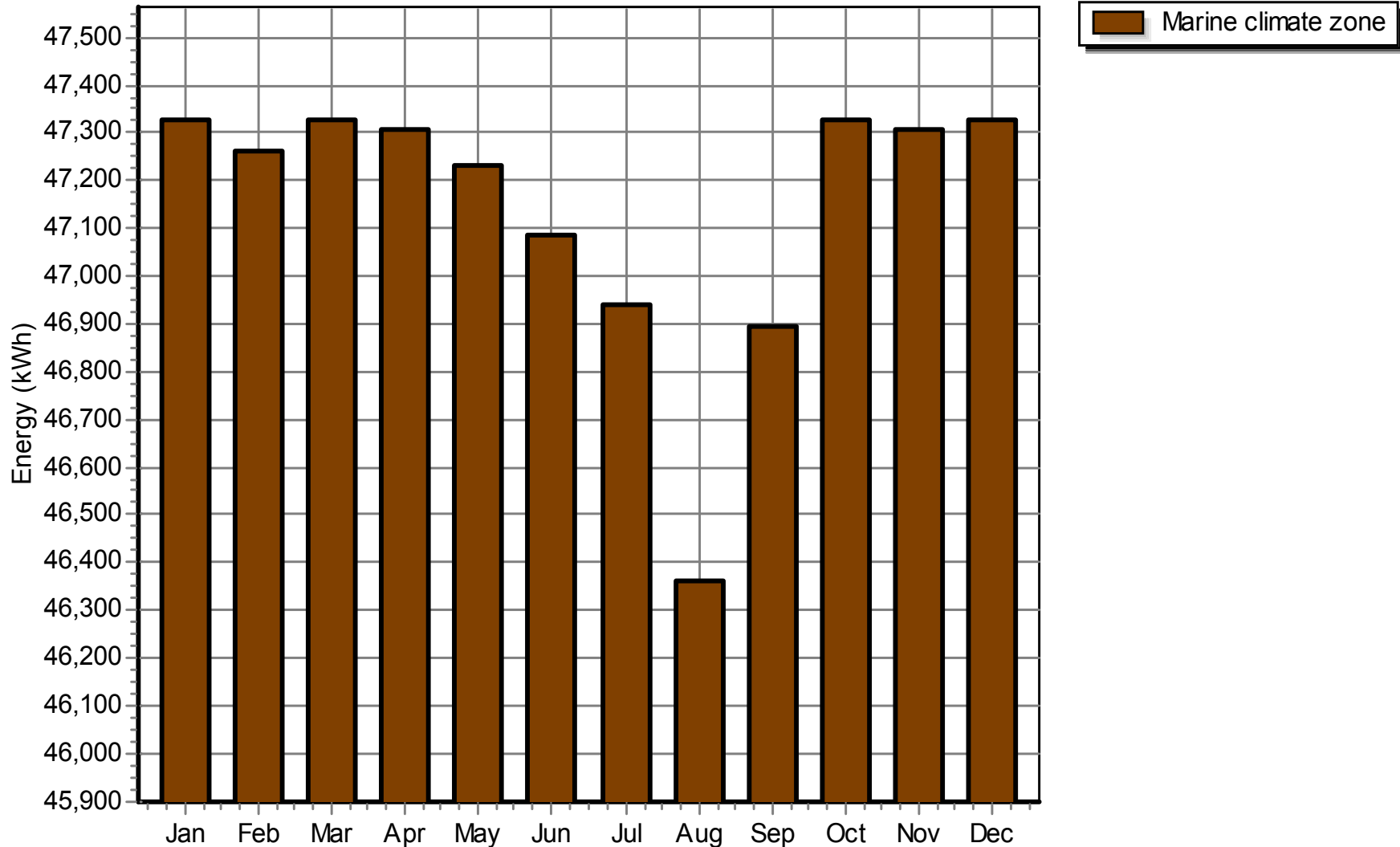


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Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



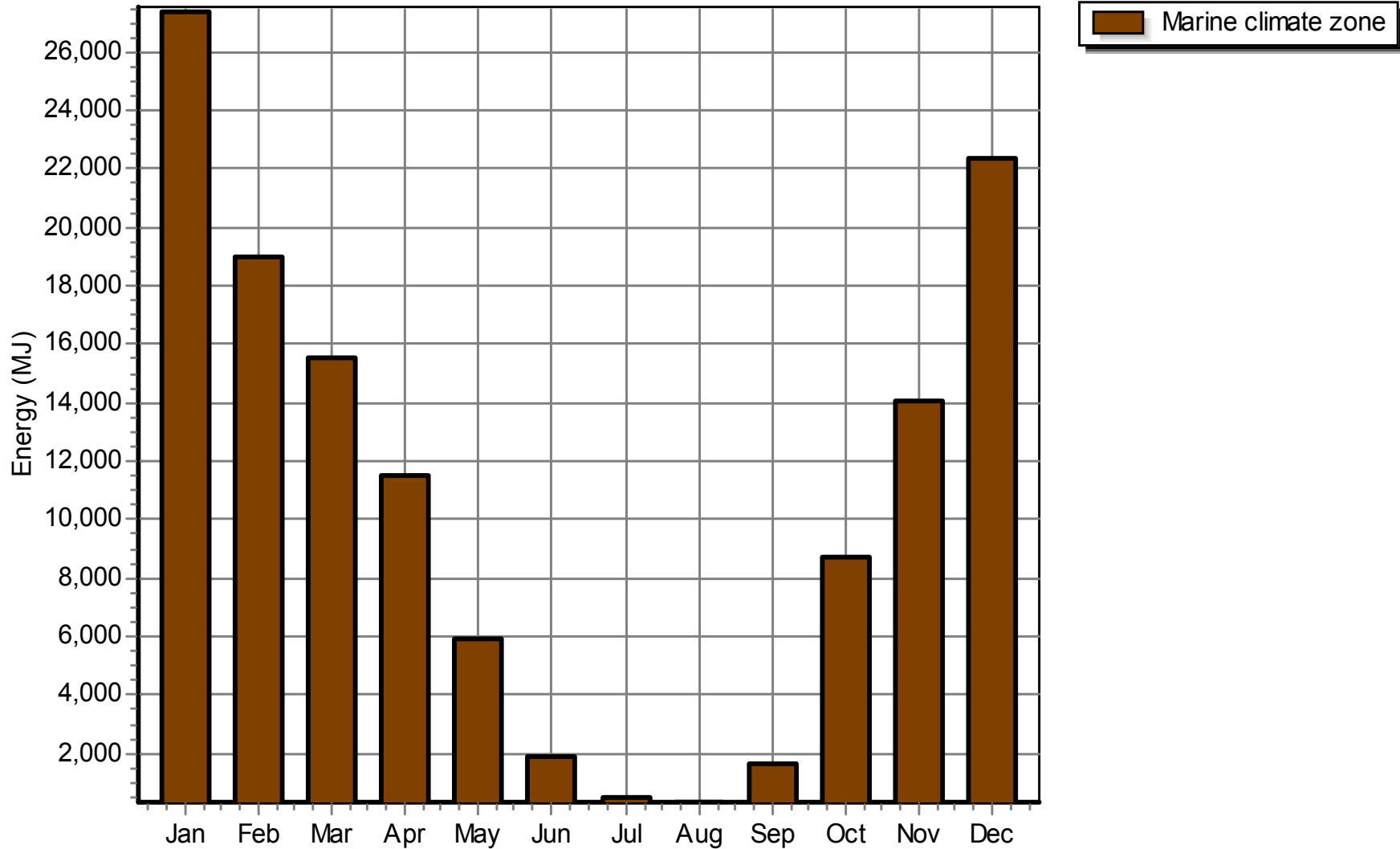
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2/1/2010

Room TYPE: Boiler Room

Room NAME: Boiler Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

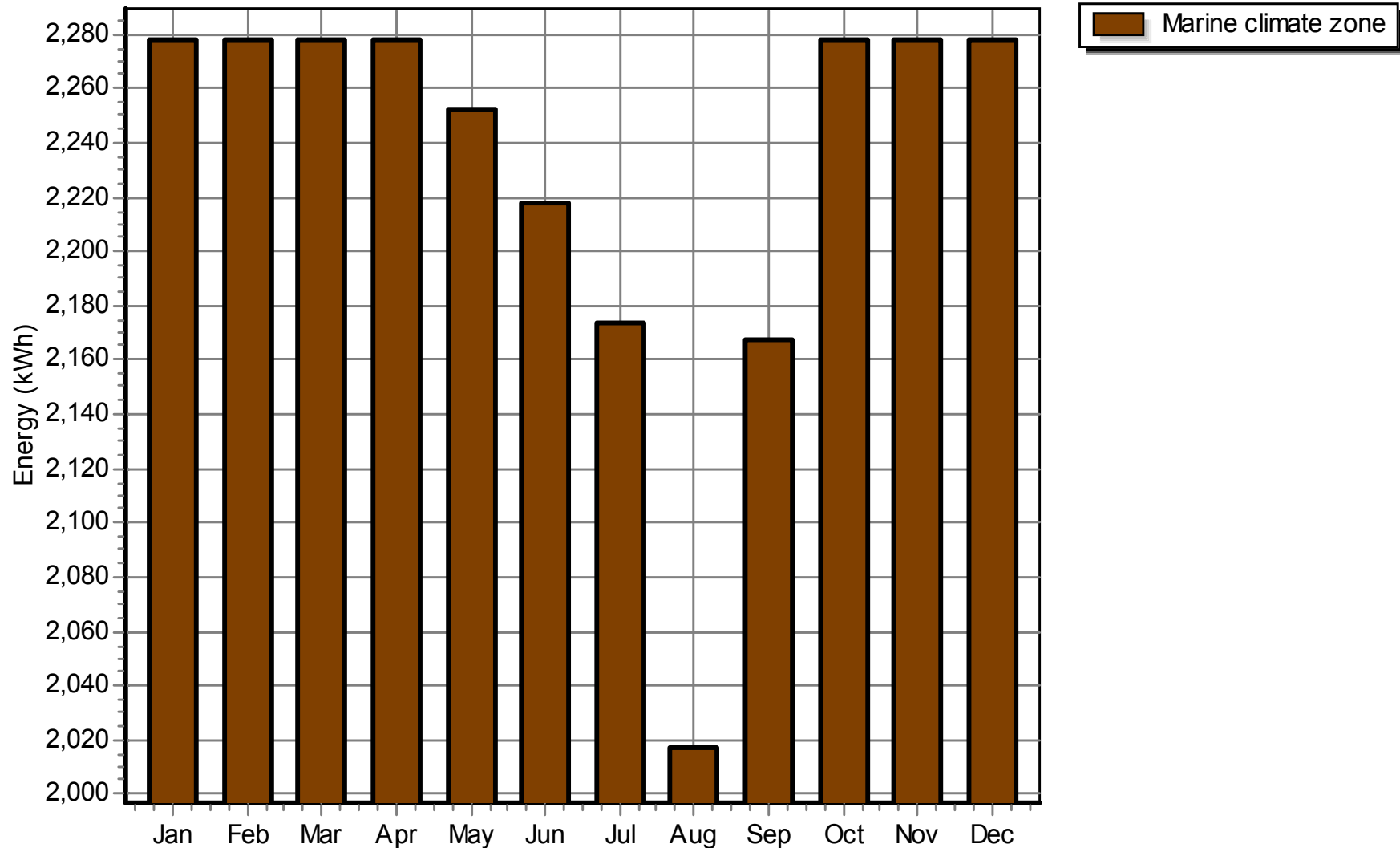


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2/1/2010

Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Cooling Energy vs. Month By Simulation



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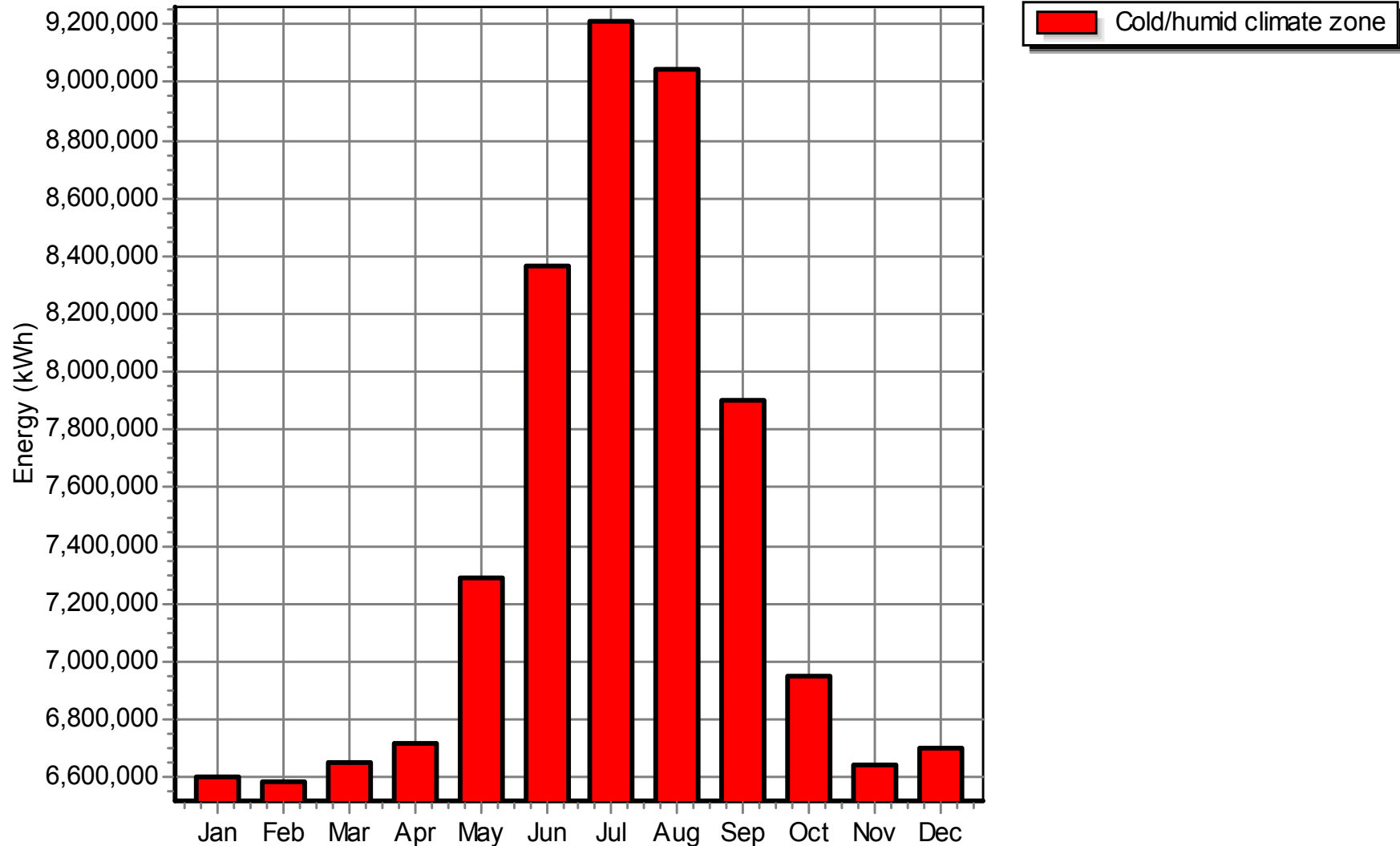
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Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



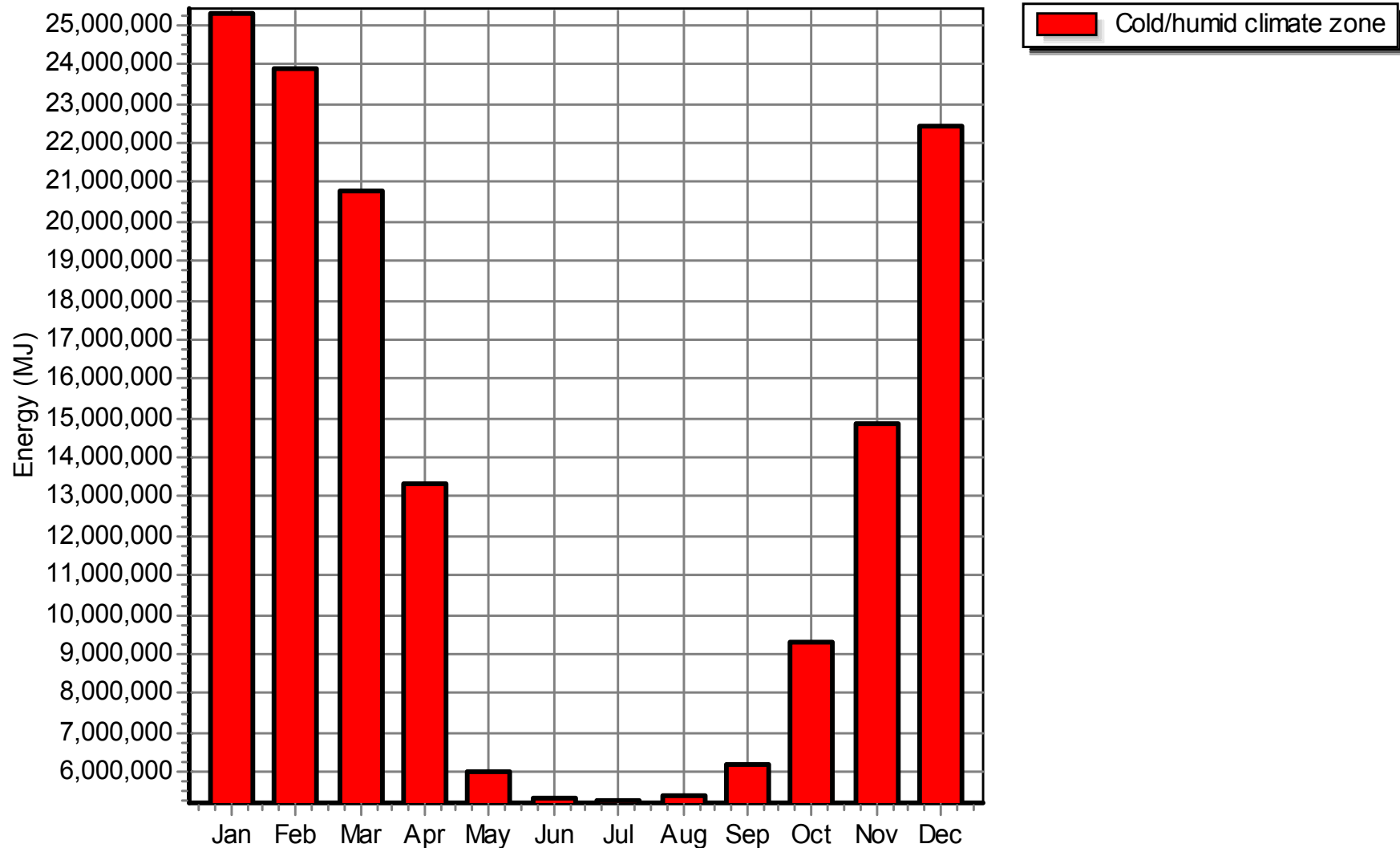
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Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



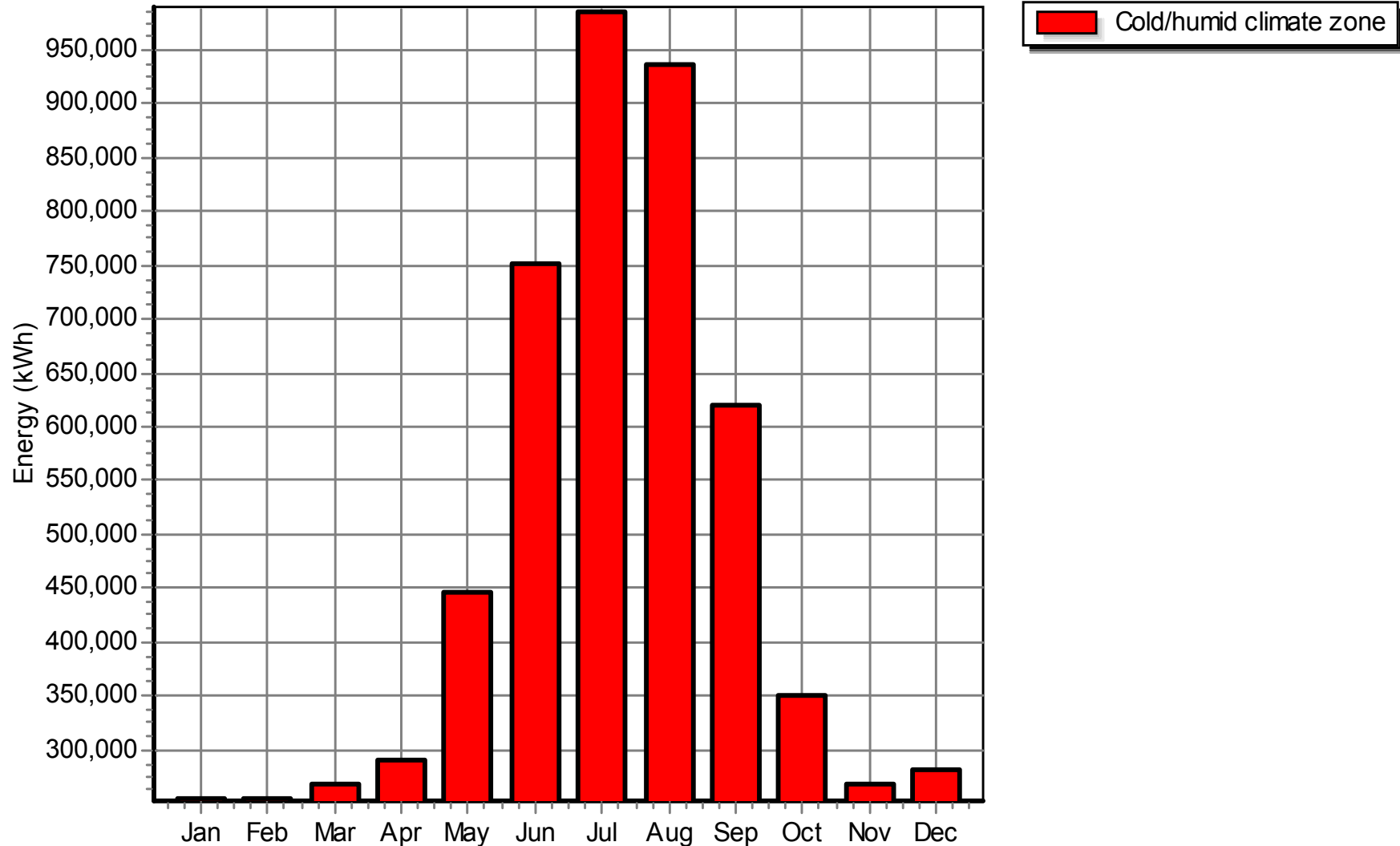
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2/1/2010

Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



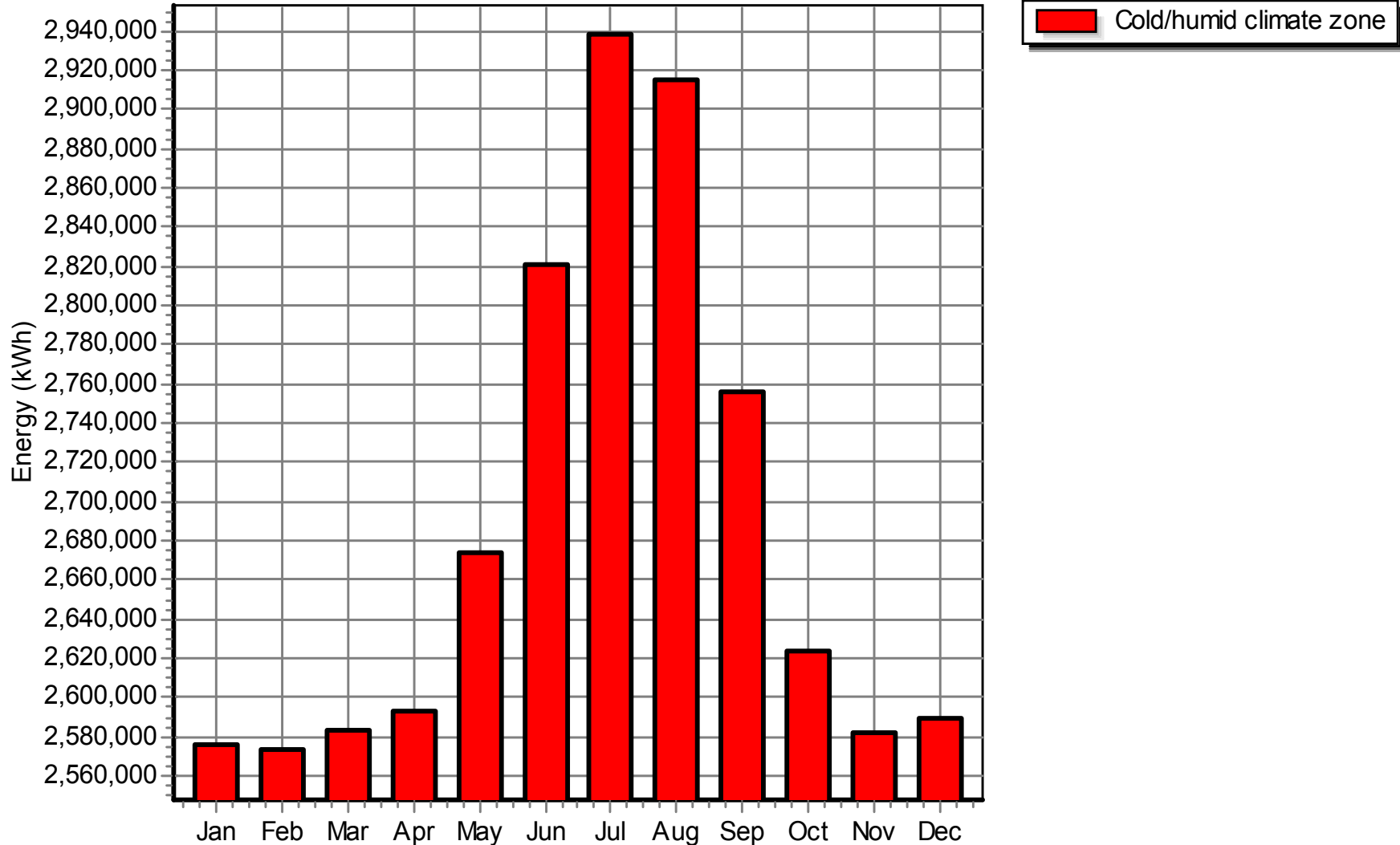
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Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



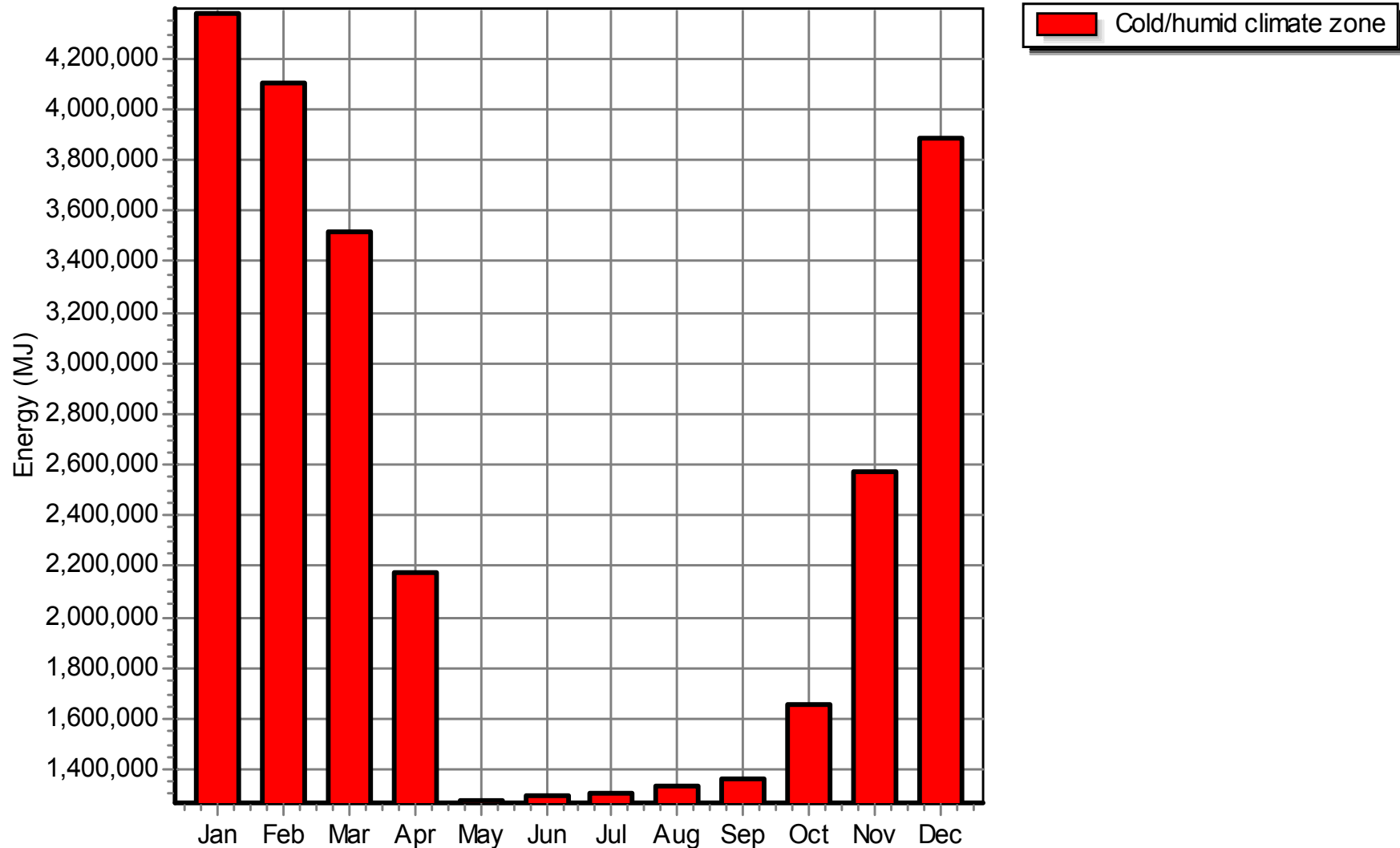
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Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



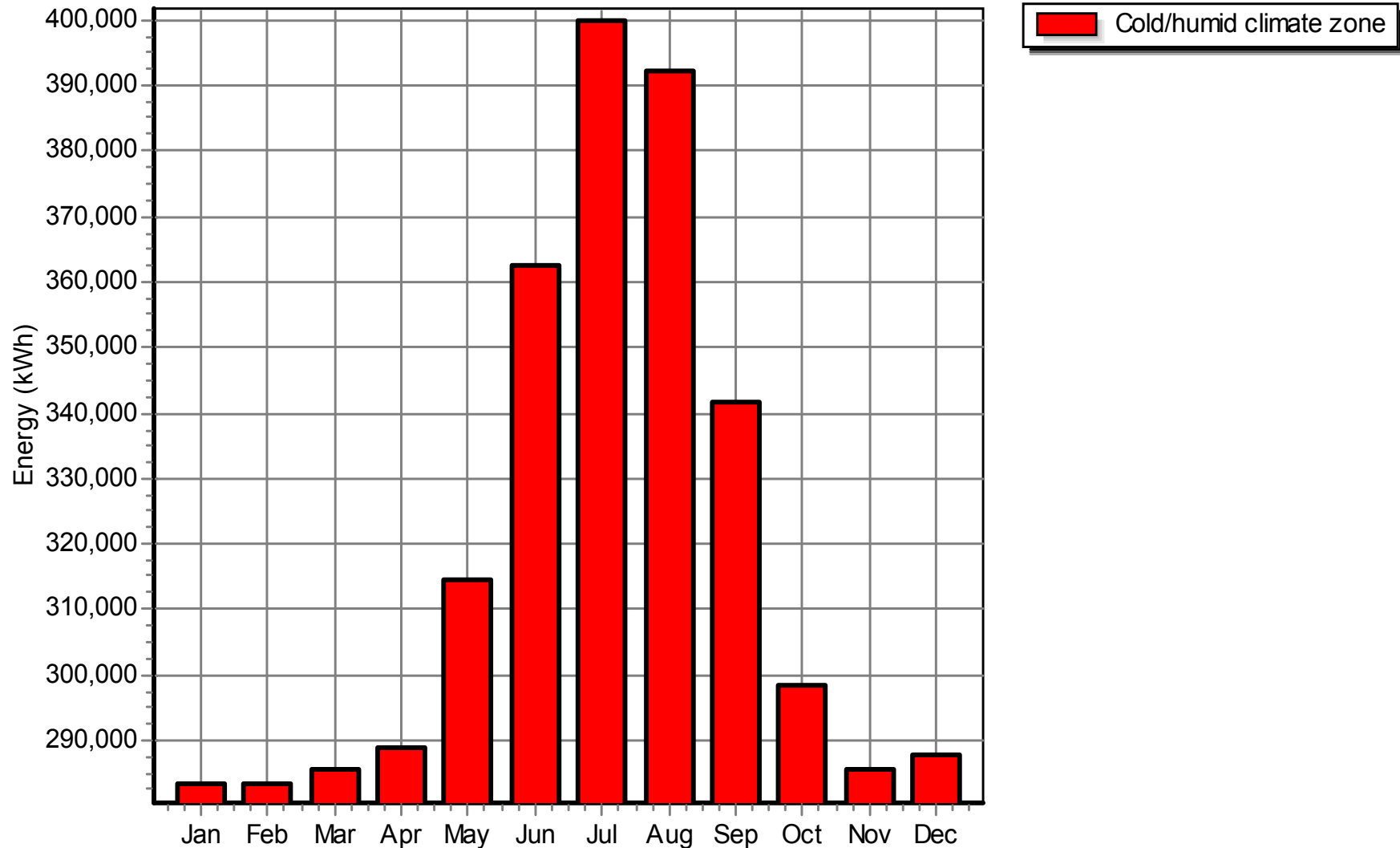
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Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Cooling Energy vs. Month By Simulation



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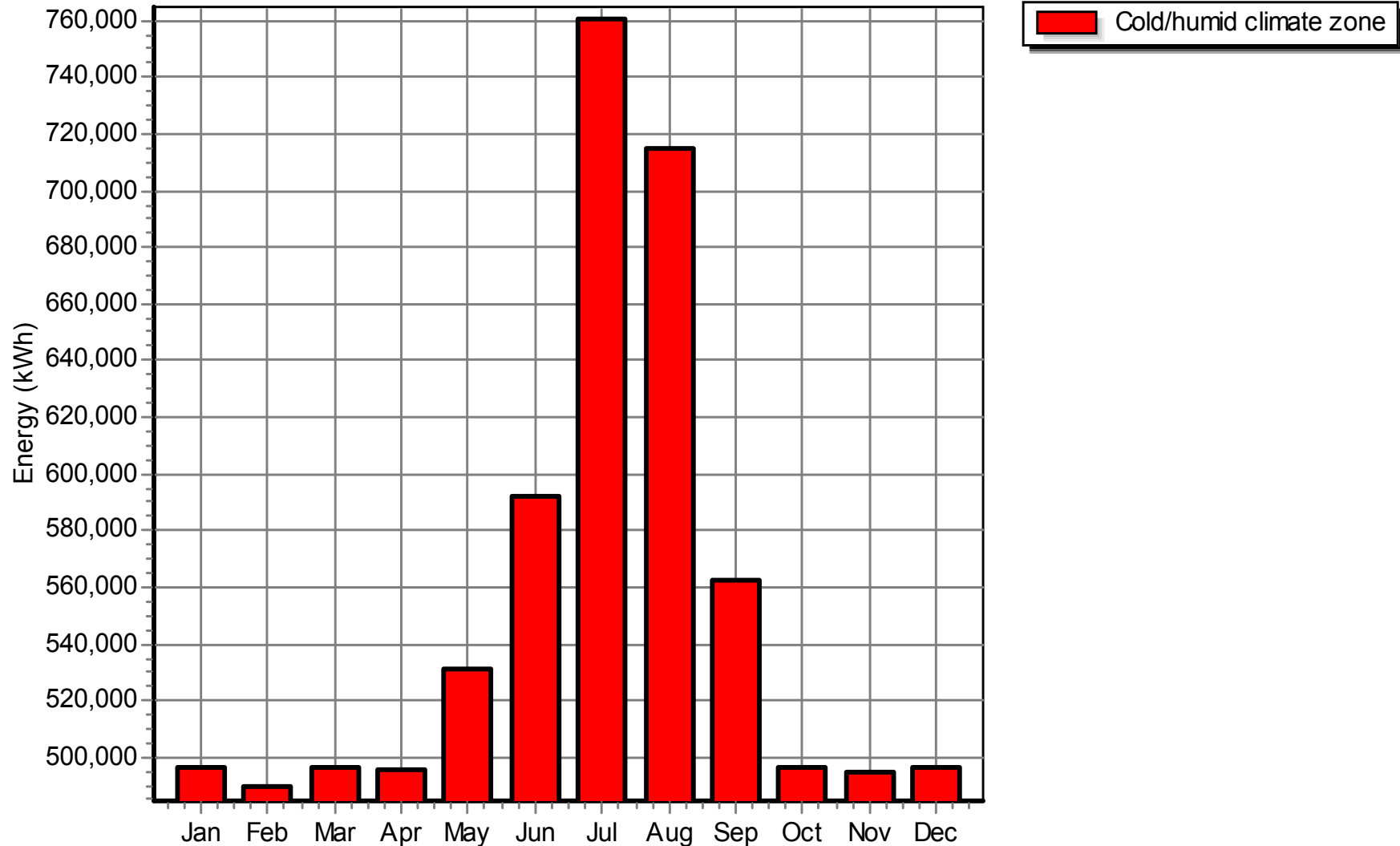
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Version 2.9.11
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



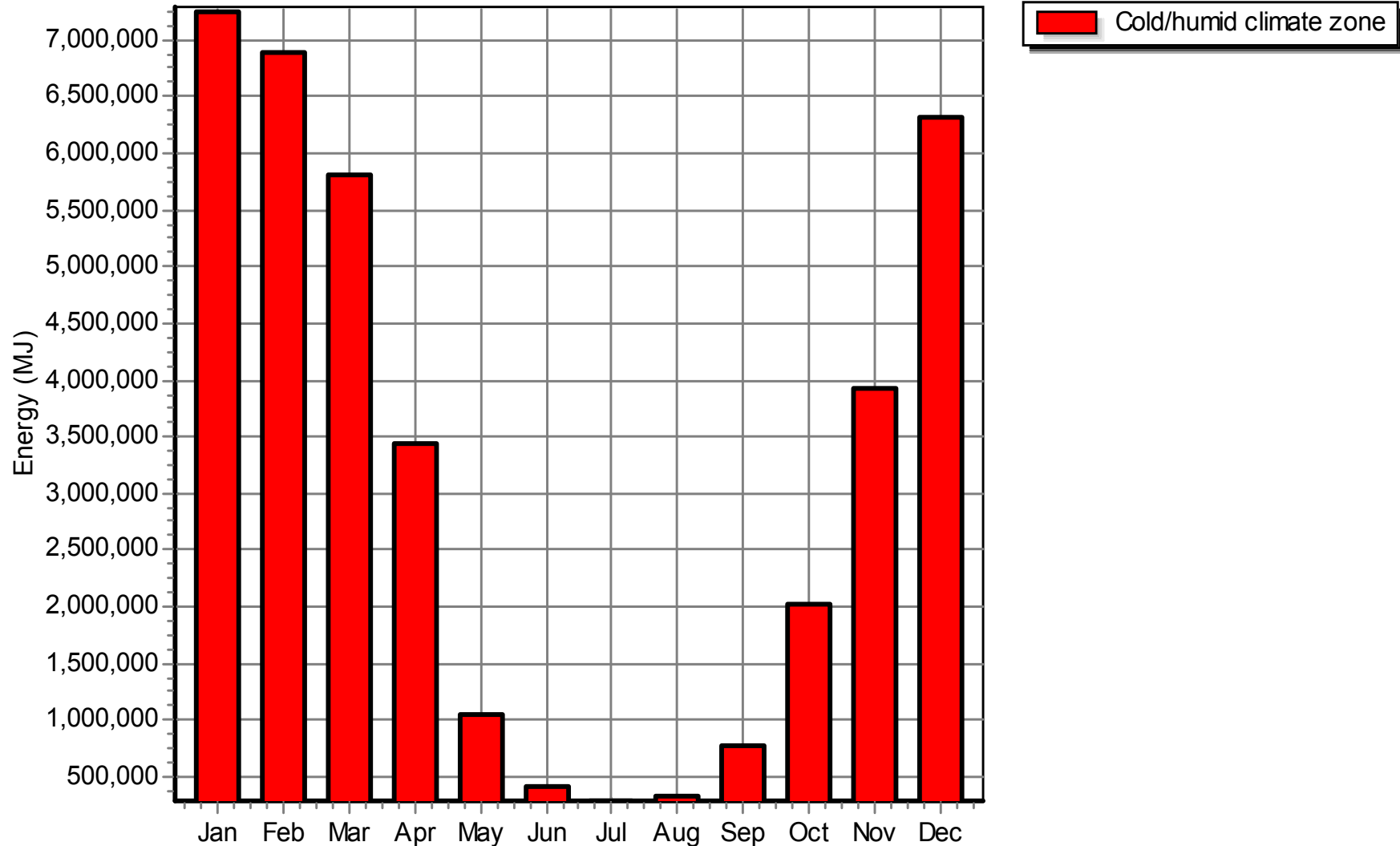
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2/1/2010

Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



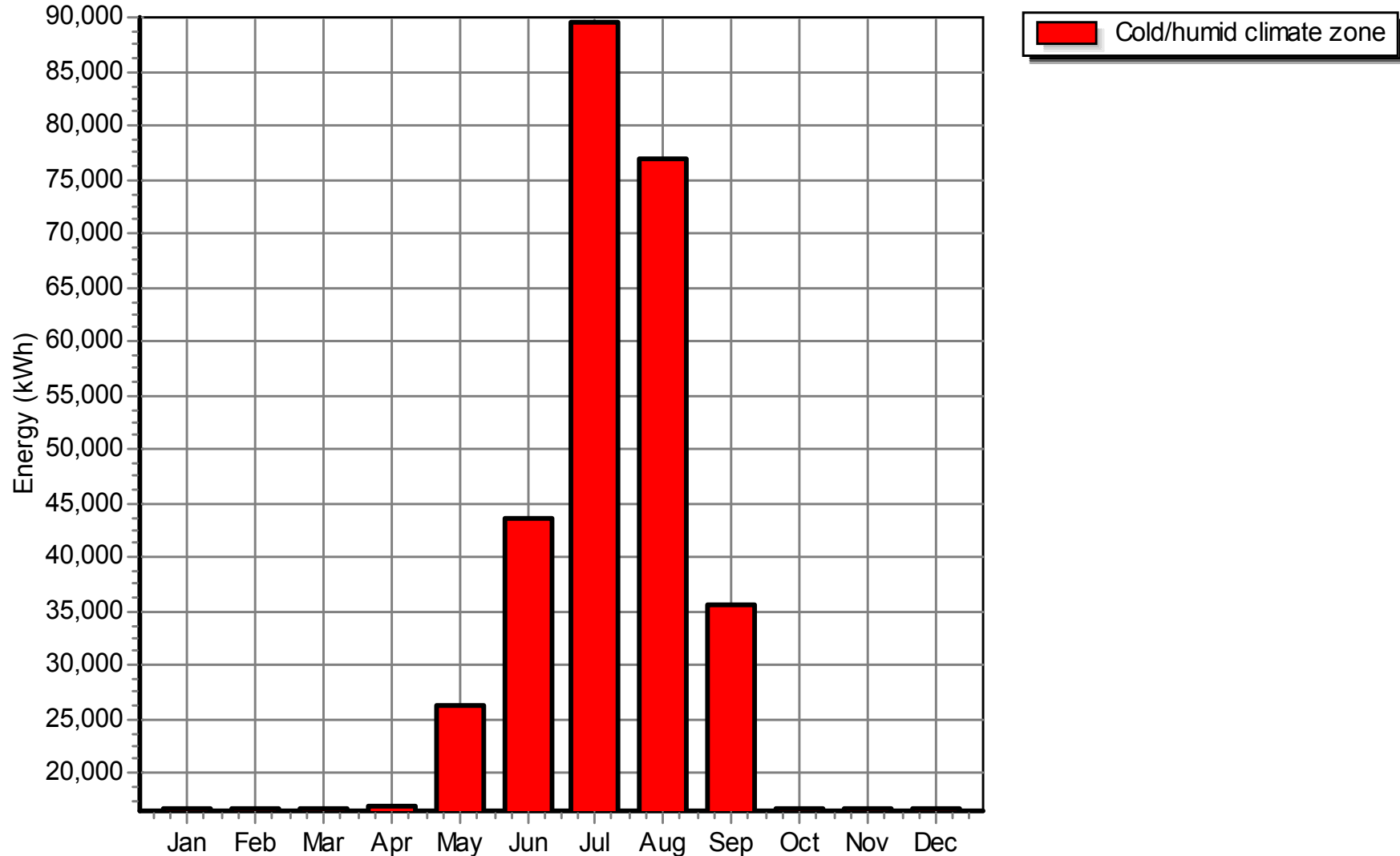
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CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

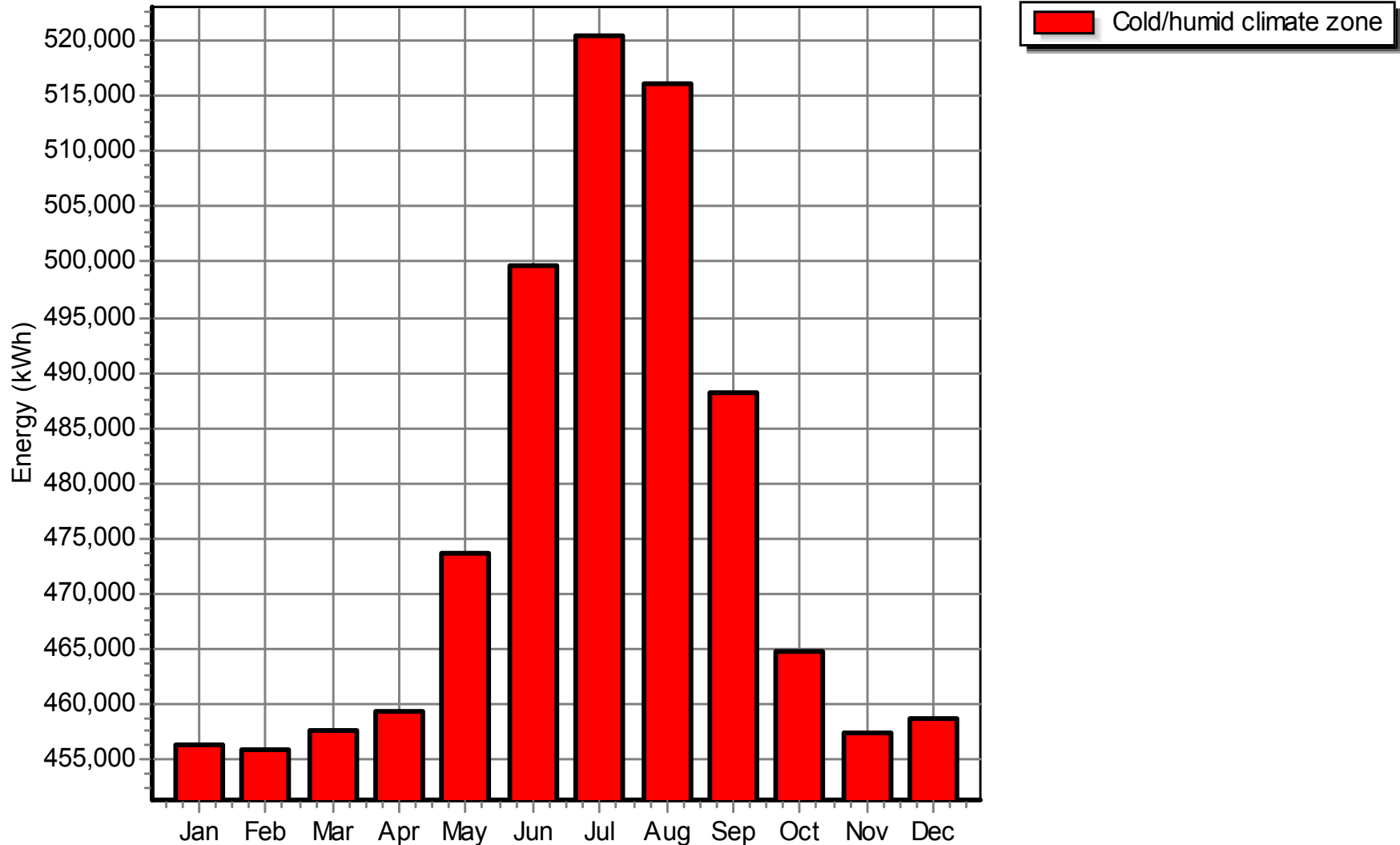


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CleanCalc
Clean Room Energy Simulation Analysis
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Room TYPE: Clean Support Room NAME: Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

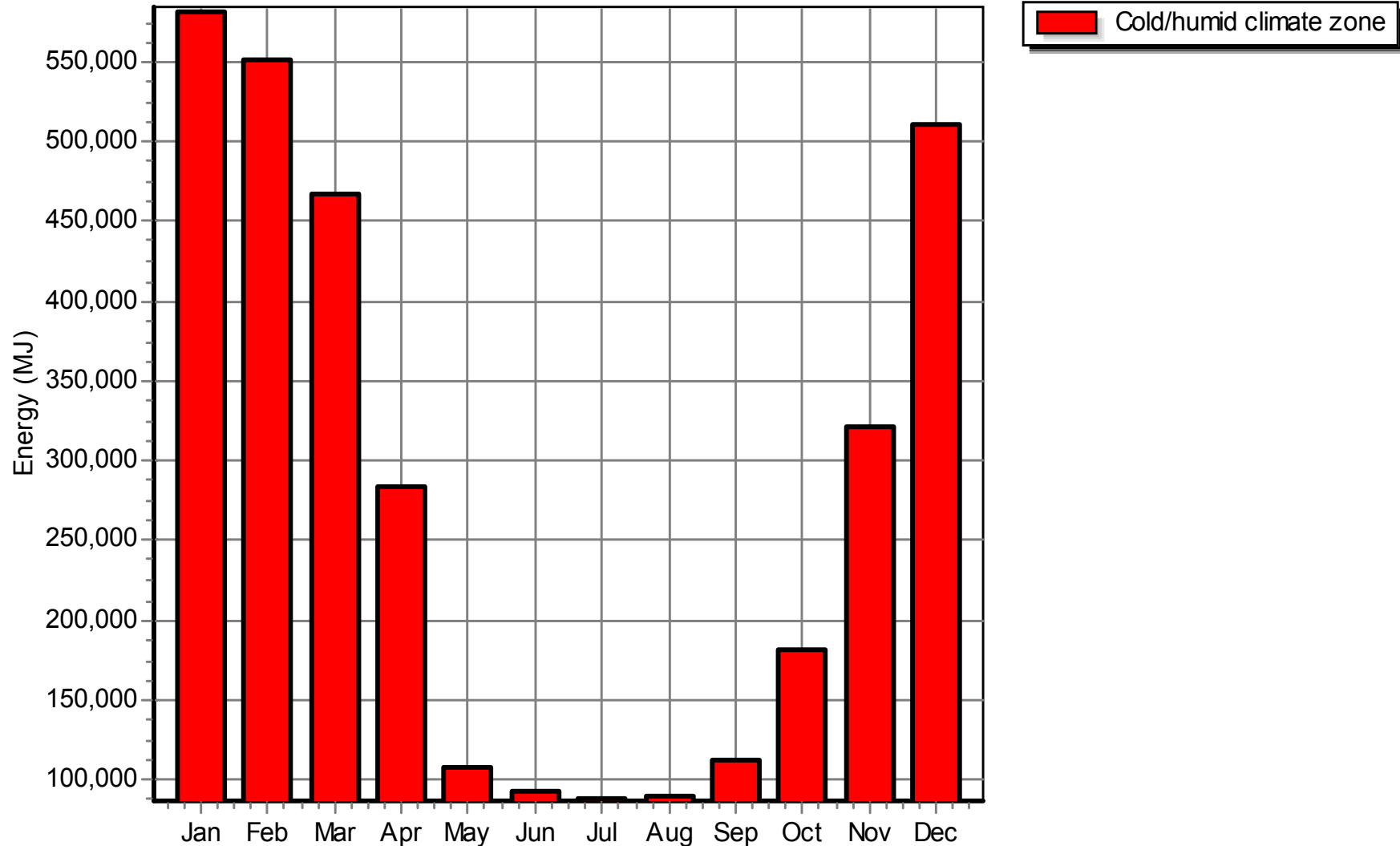


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Room TYPE: Clean Support Room NAME: Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



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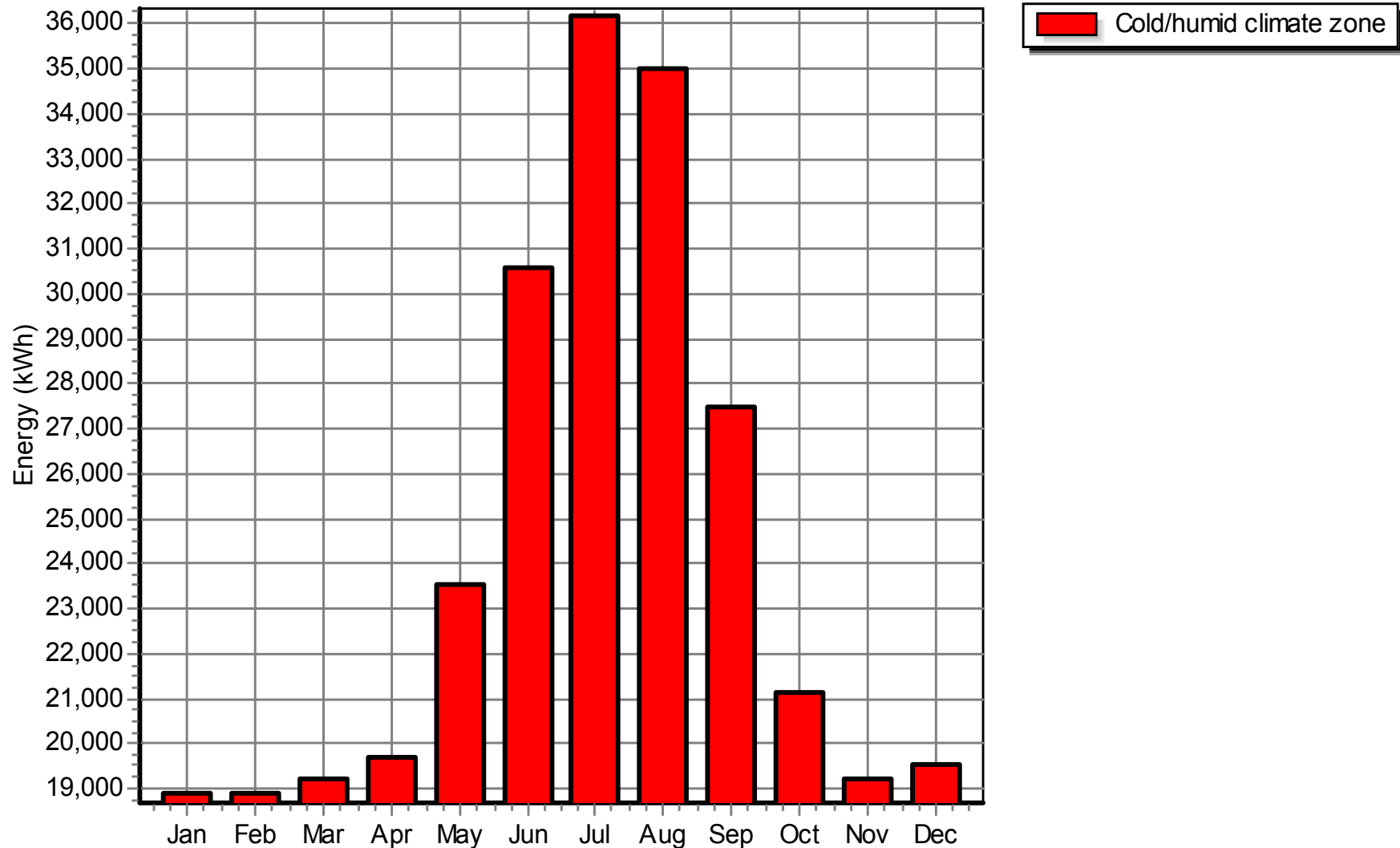


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Room TYPE: Clean Support Room NAME: Clean Support

Total Annual Cooling Energy vs. Month By Simulation



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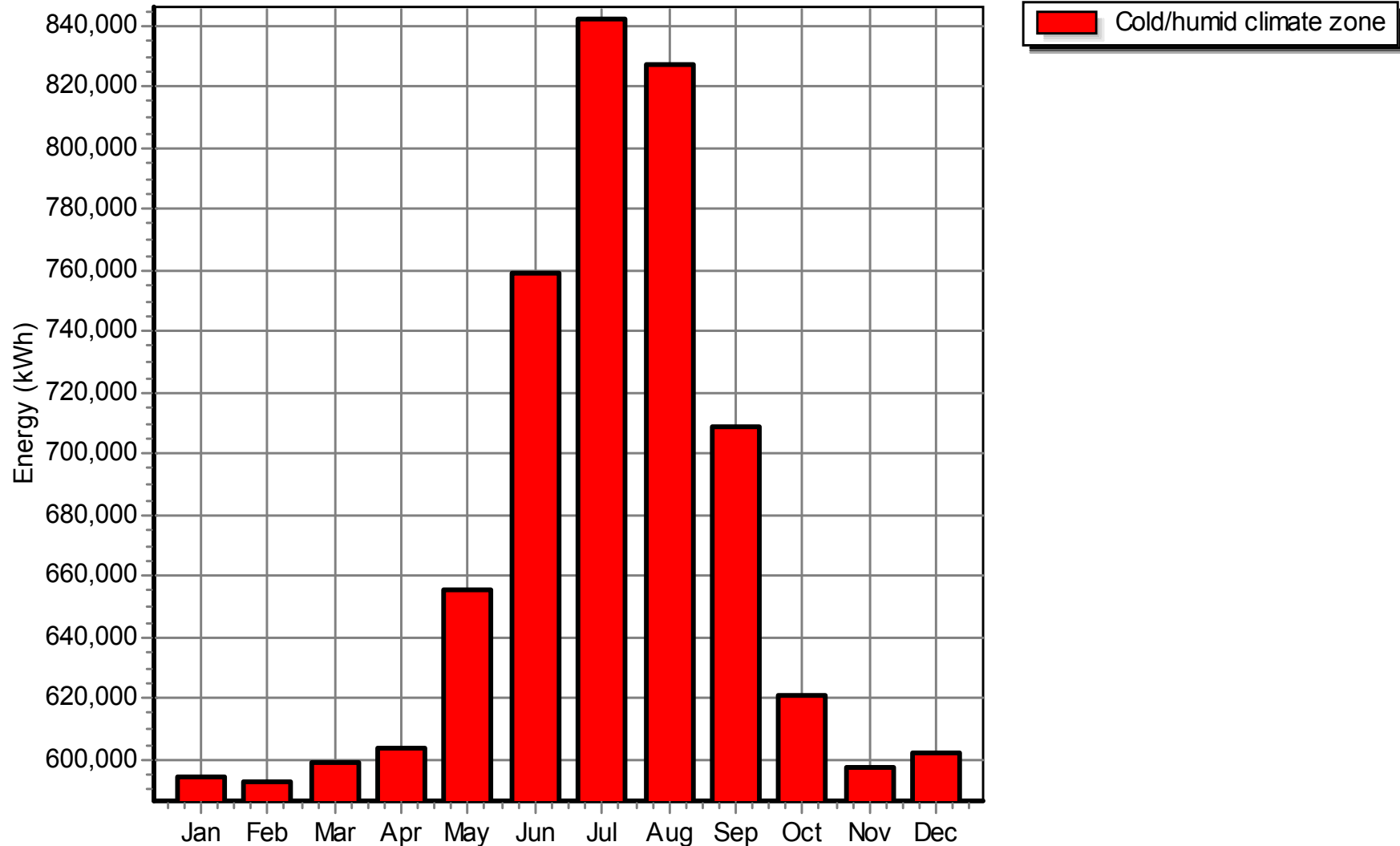
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Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

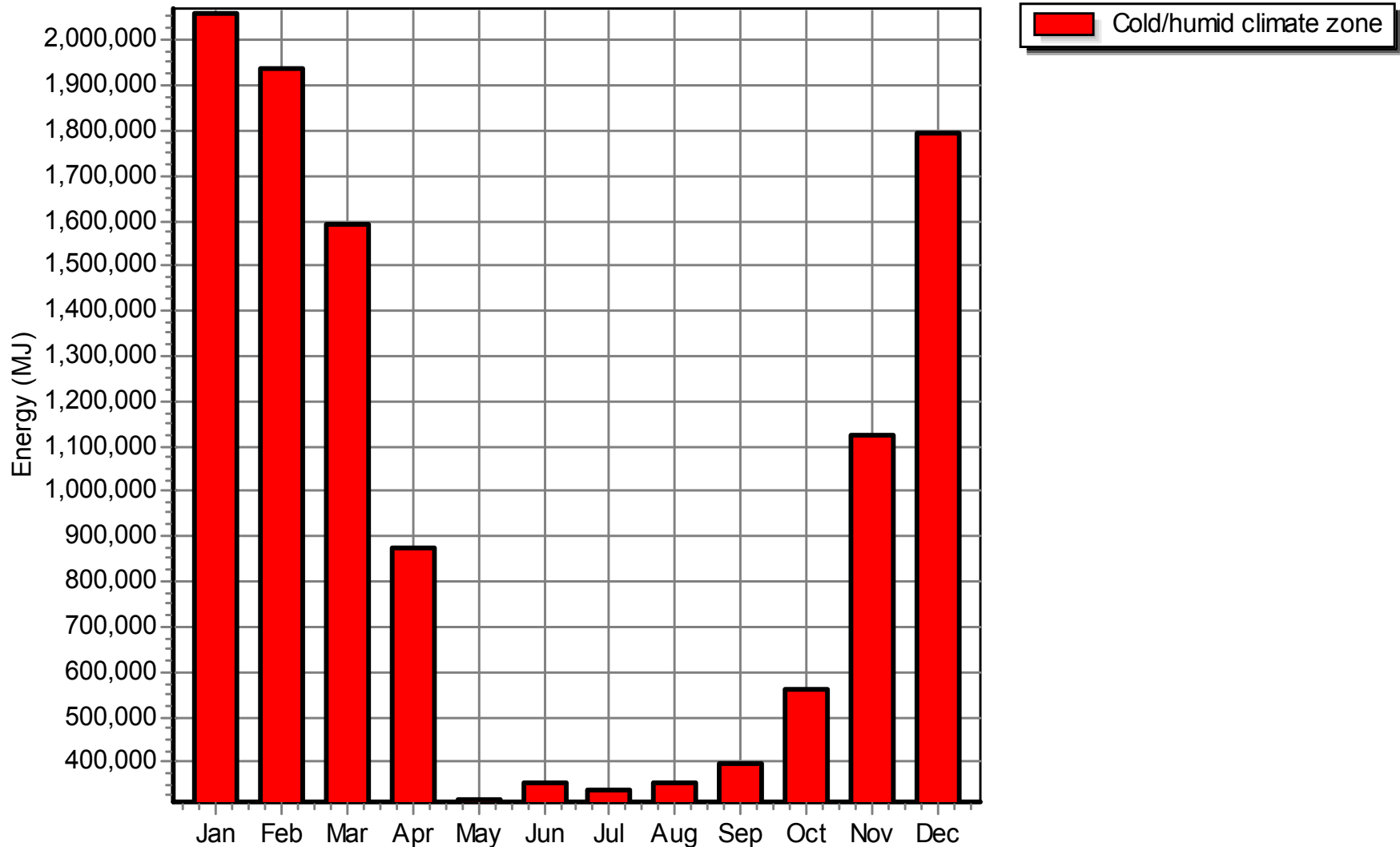


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Room TYPE: Non Clean Support Room NAME: Non-Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



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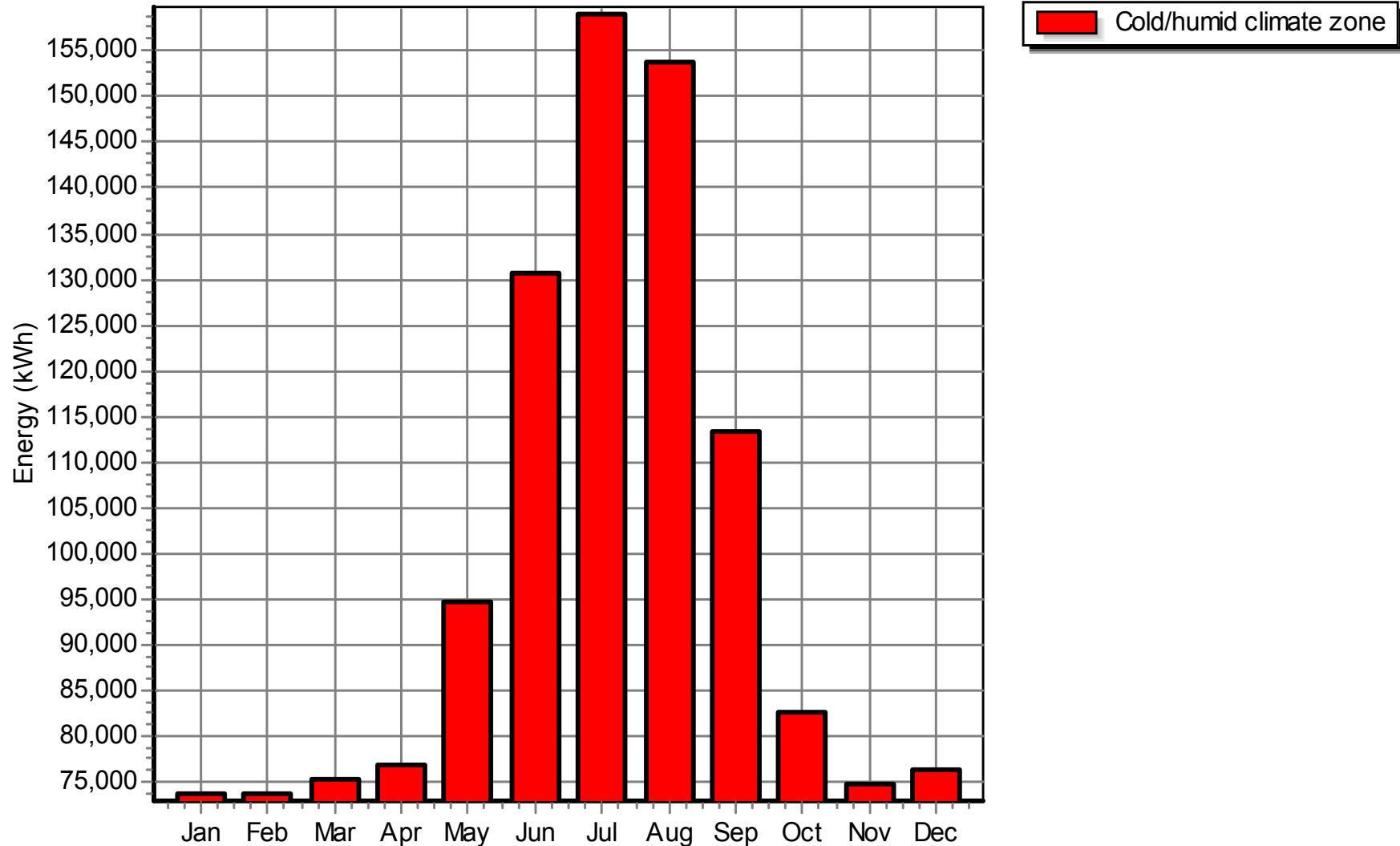


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Room TYPE: Non Clean Support Room NAME: Non-Clean Support

Total Annual Cooling Energy vs. Month By Simulation



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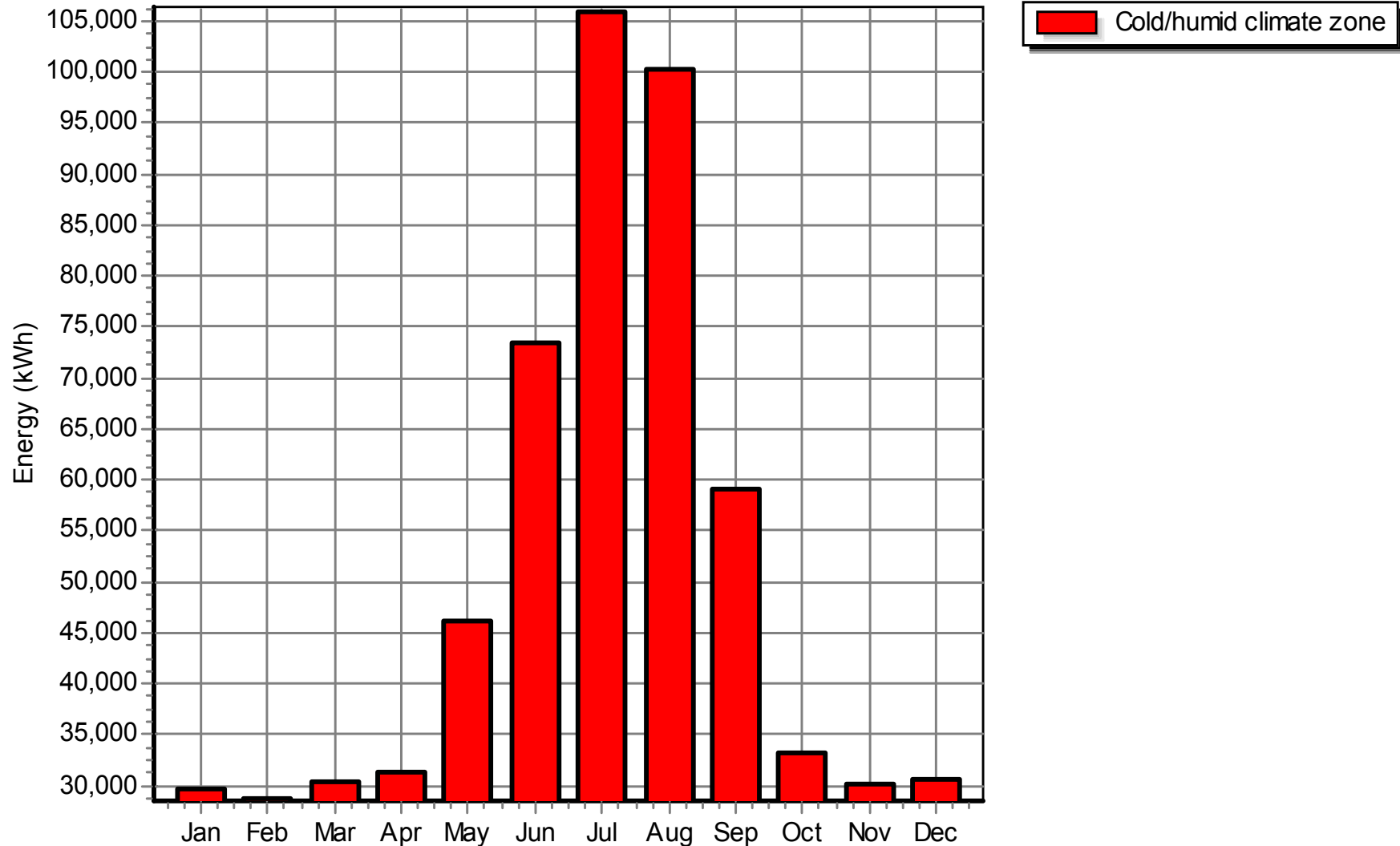
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



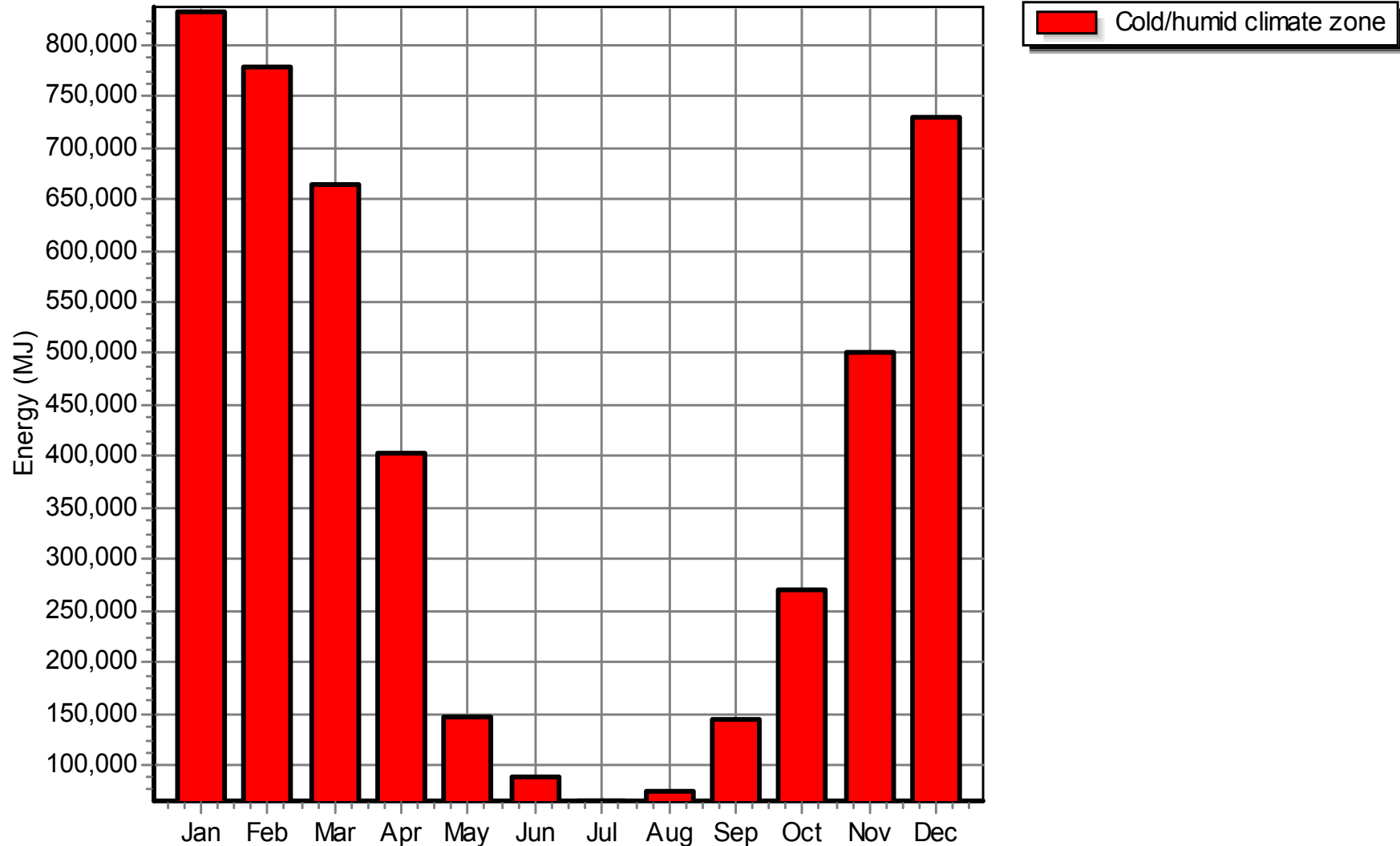
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Room NAME: Bottle Gas

Total Annual HVAC Fuel Energy vs. Month By Simulation



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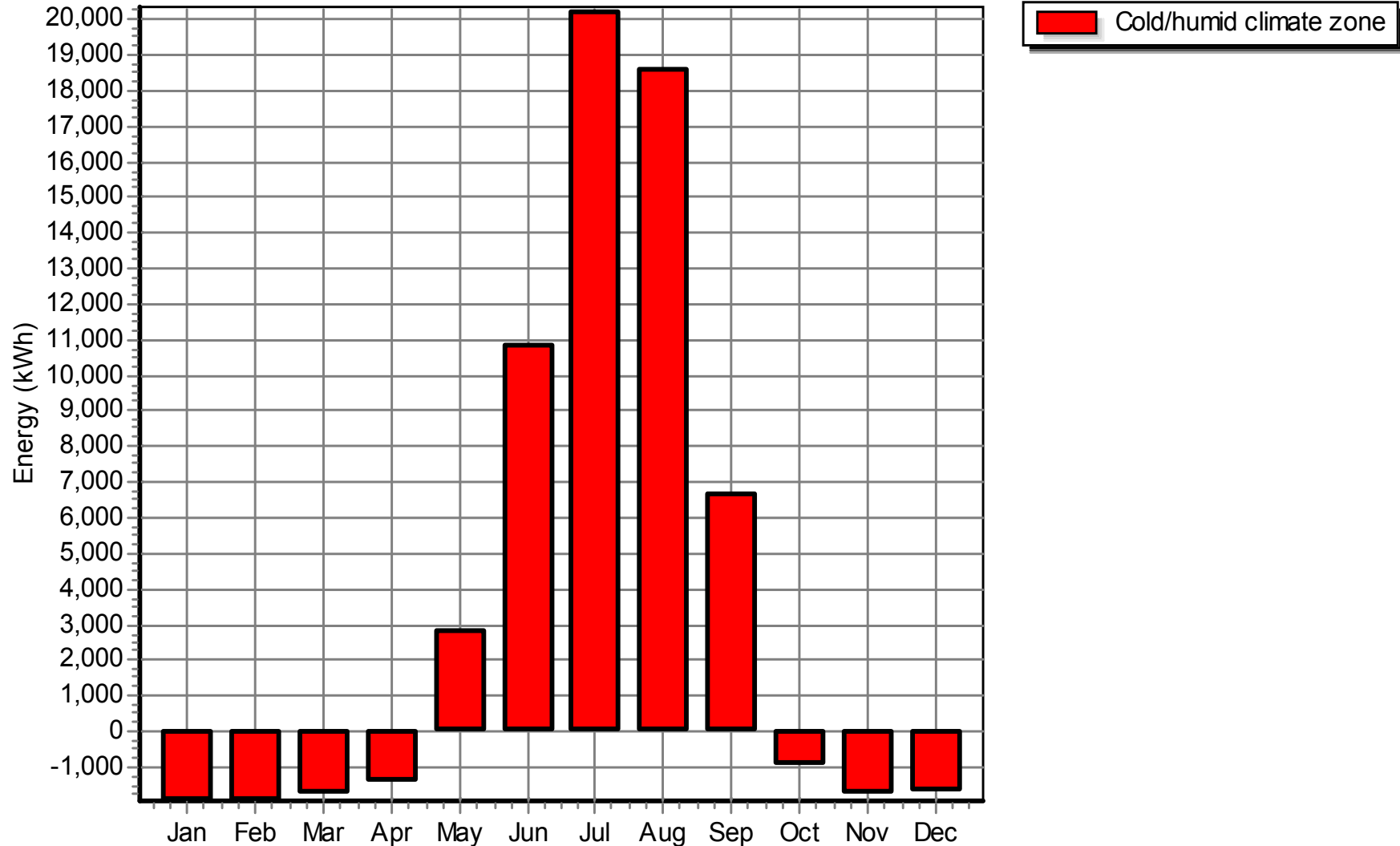
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Cooling Energy vs. Month By Simulation



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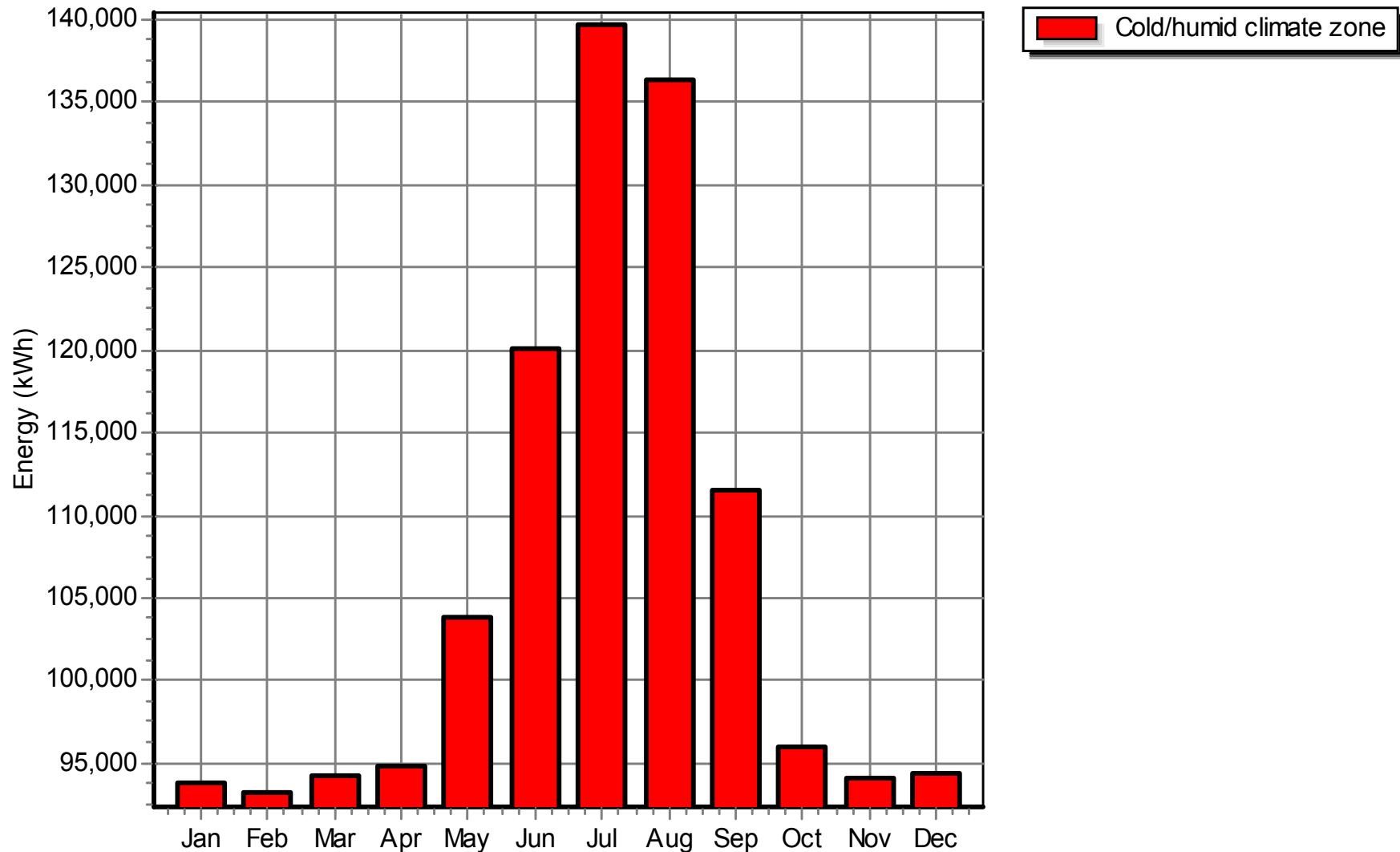
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



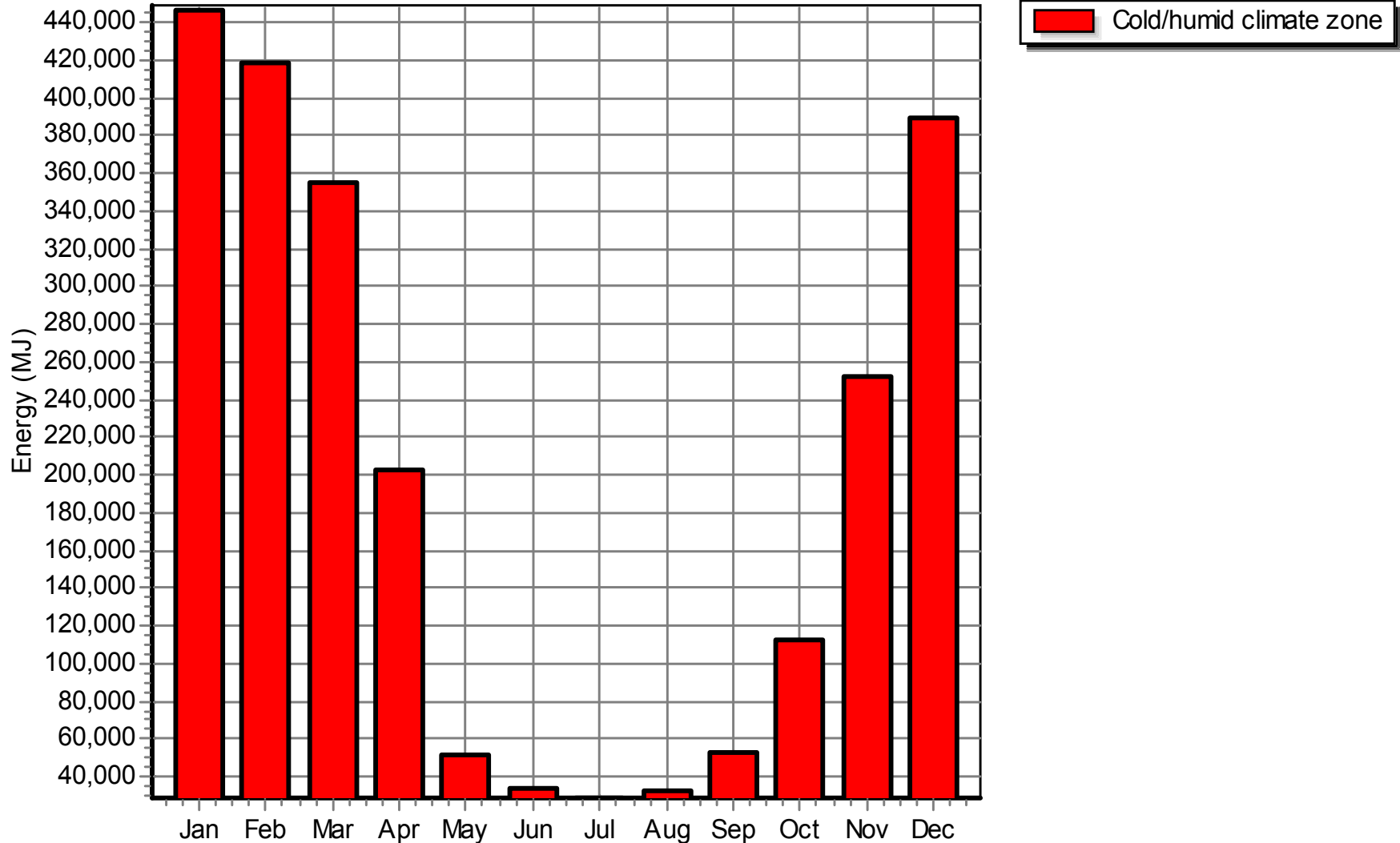
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual HVAC Fuel Energy vs. Month By Simulation



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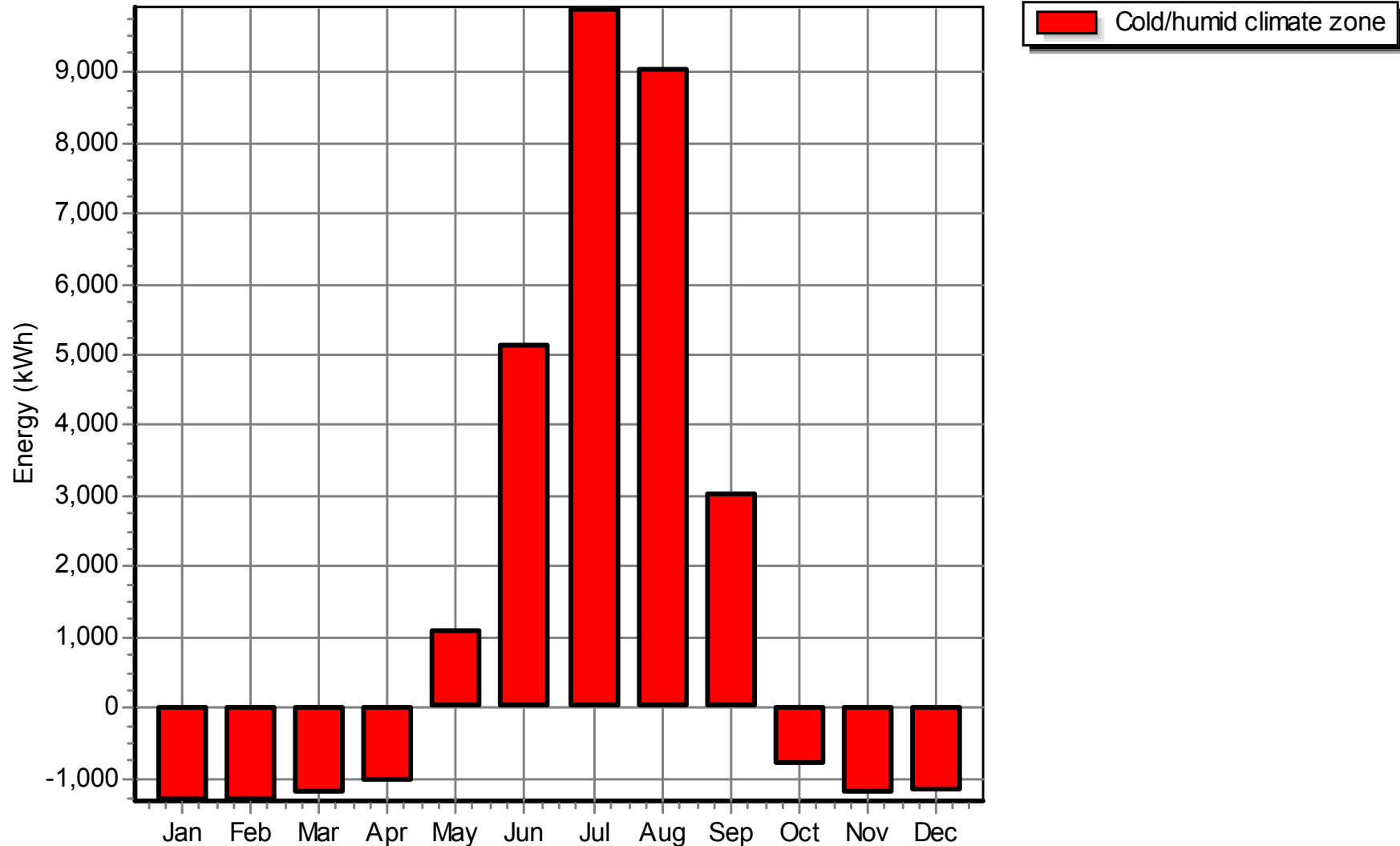
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Cooling Energy vs. Month By Simulation



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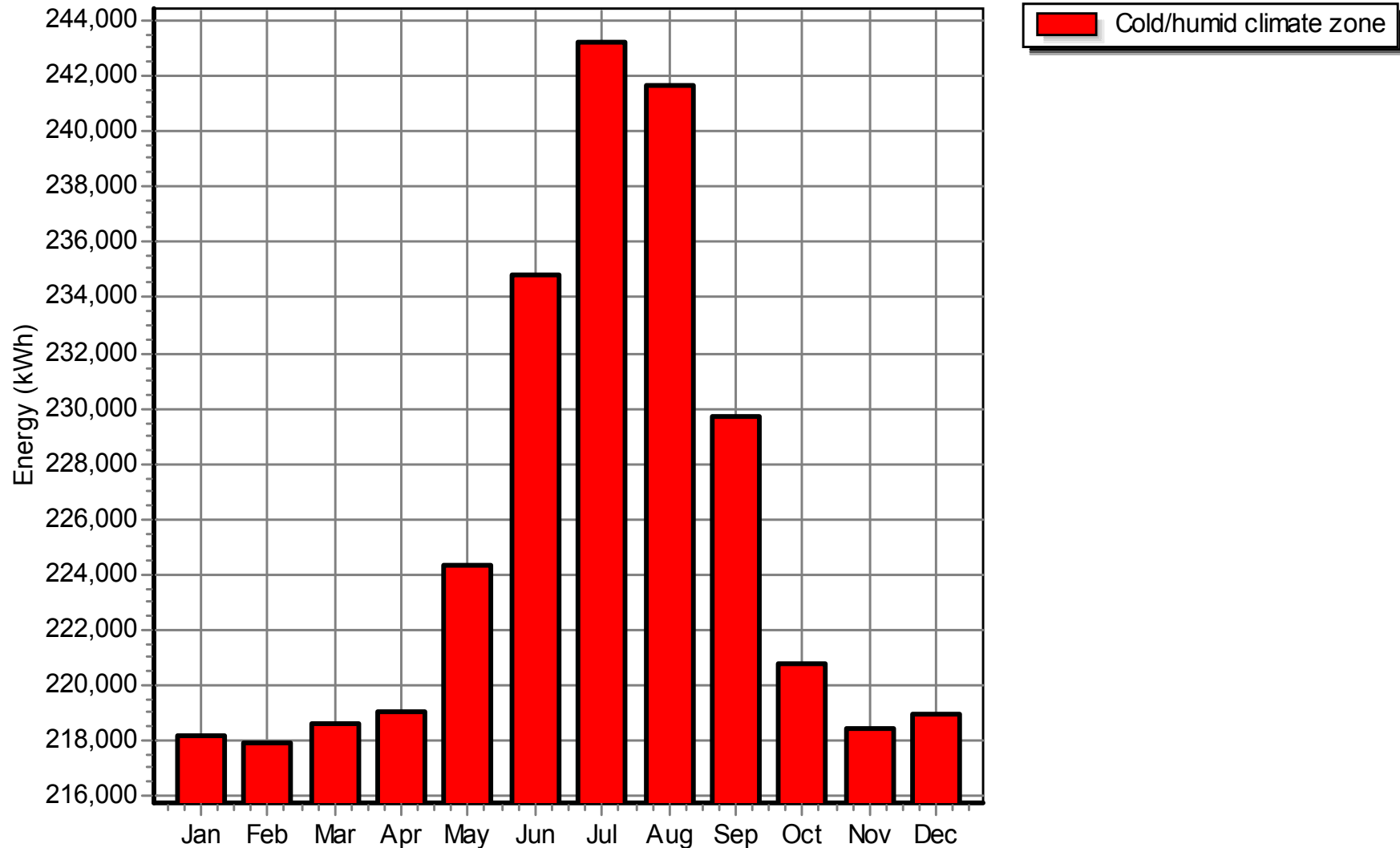
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Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual Electric Energy vs. Month By Simulation



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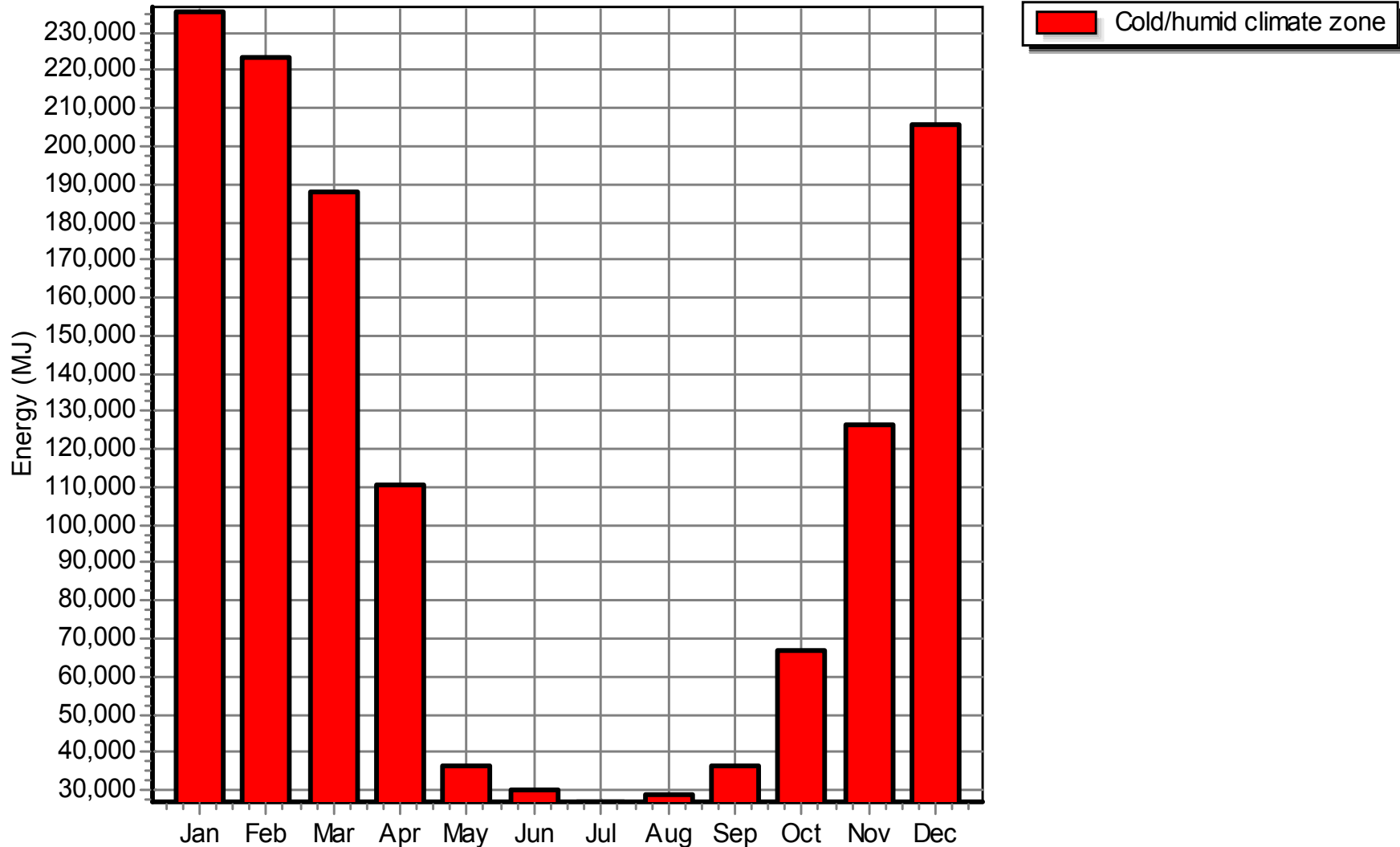


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Room TYPE: Computer Room Room NAME: Computer Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



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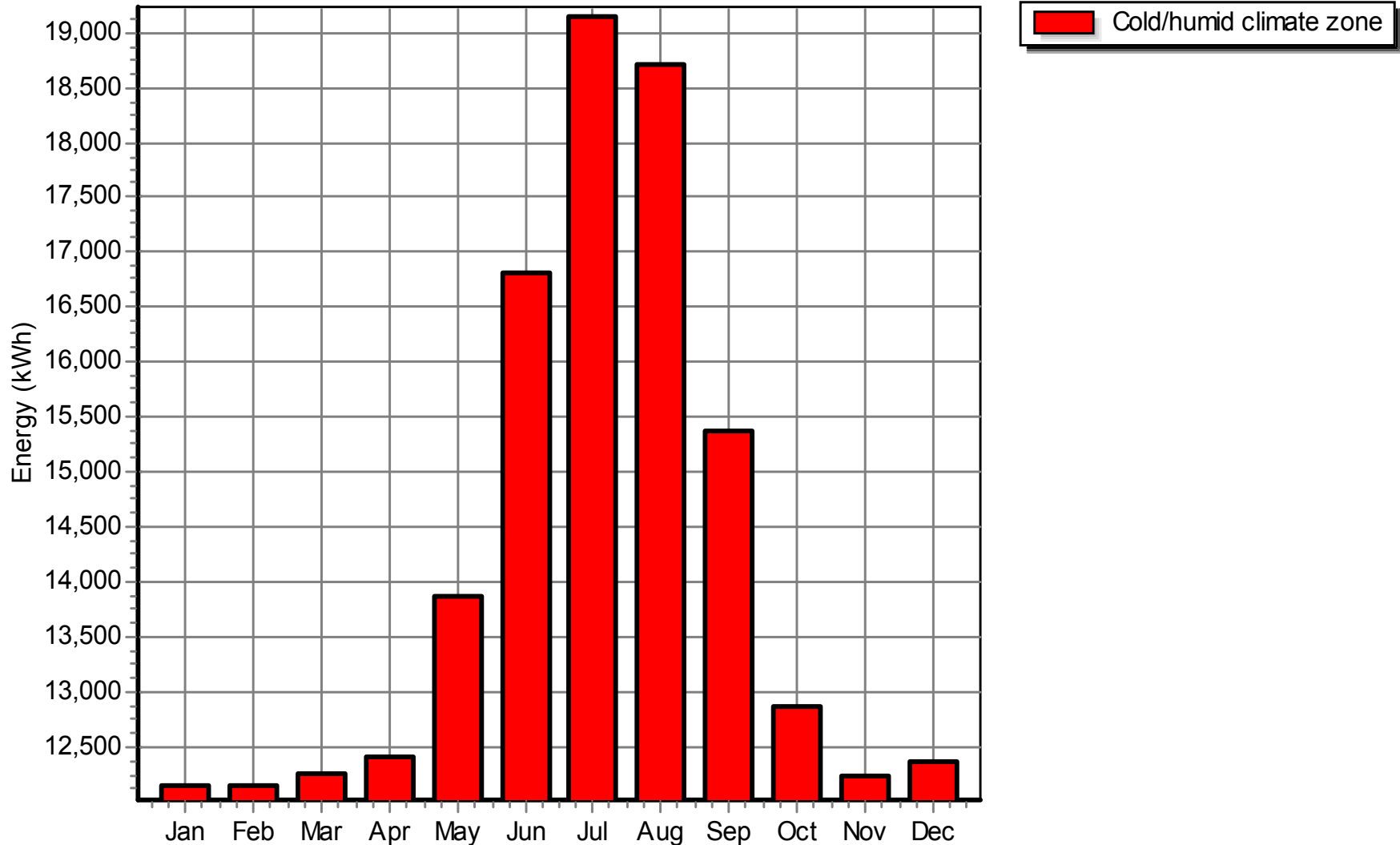


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2/1/2010

Room TYPE: Computer Room Room NAME: Computer Room

Total Annual Cooling Energy vs. Month By Simulation



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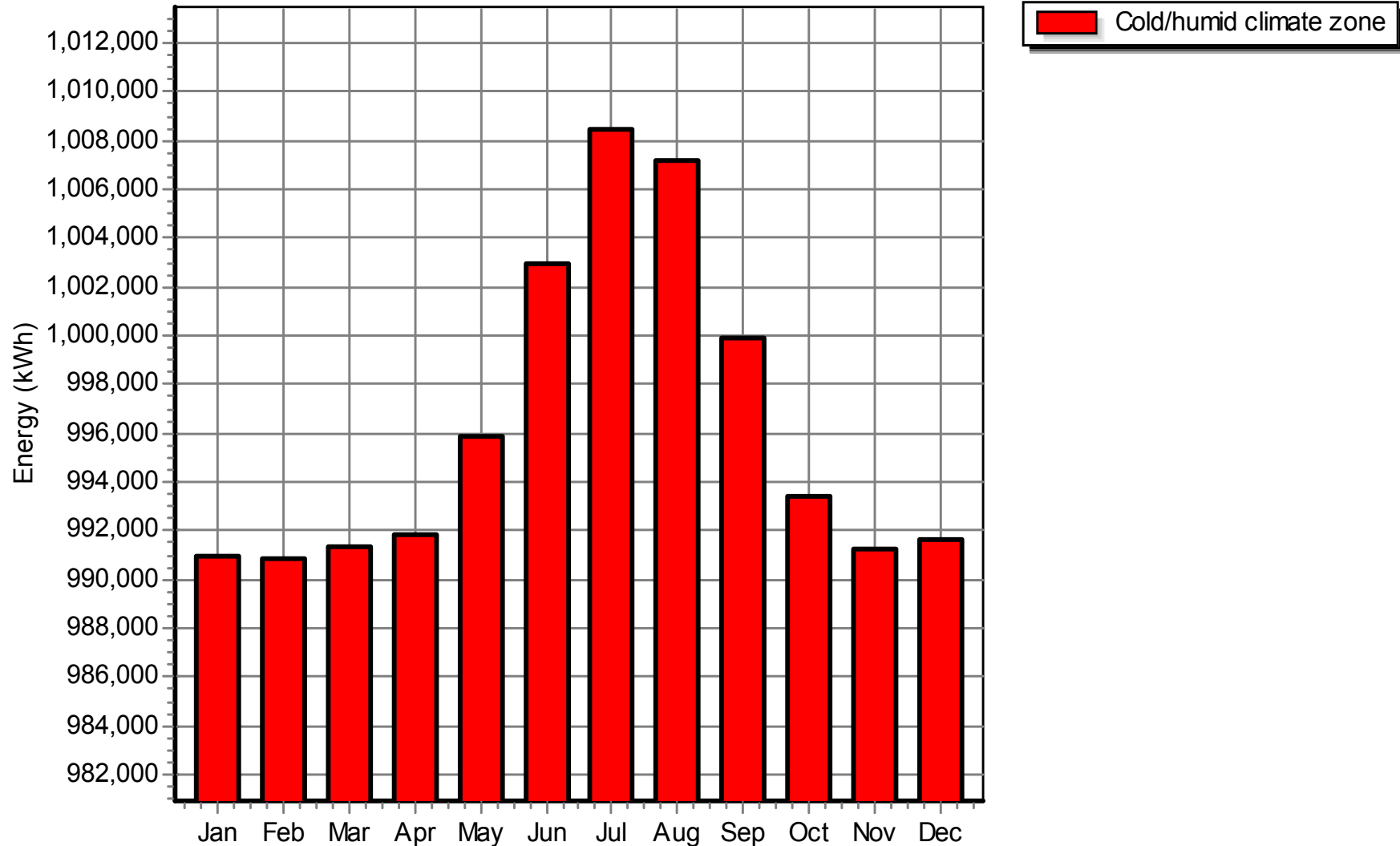
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Electric Energy vs. Month By Simulation



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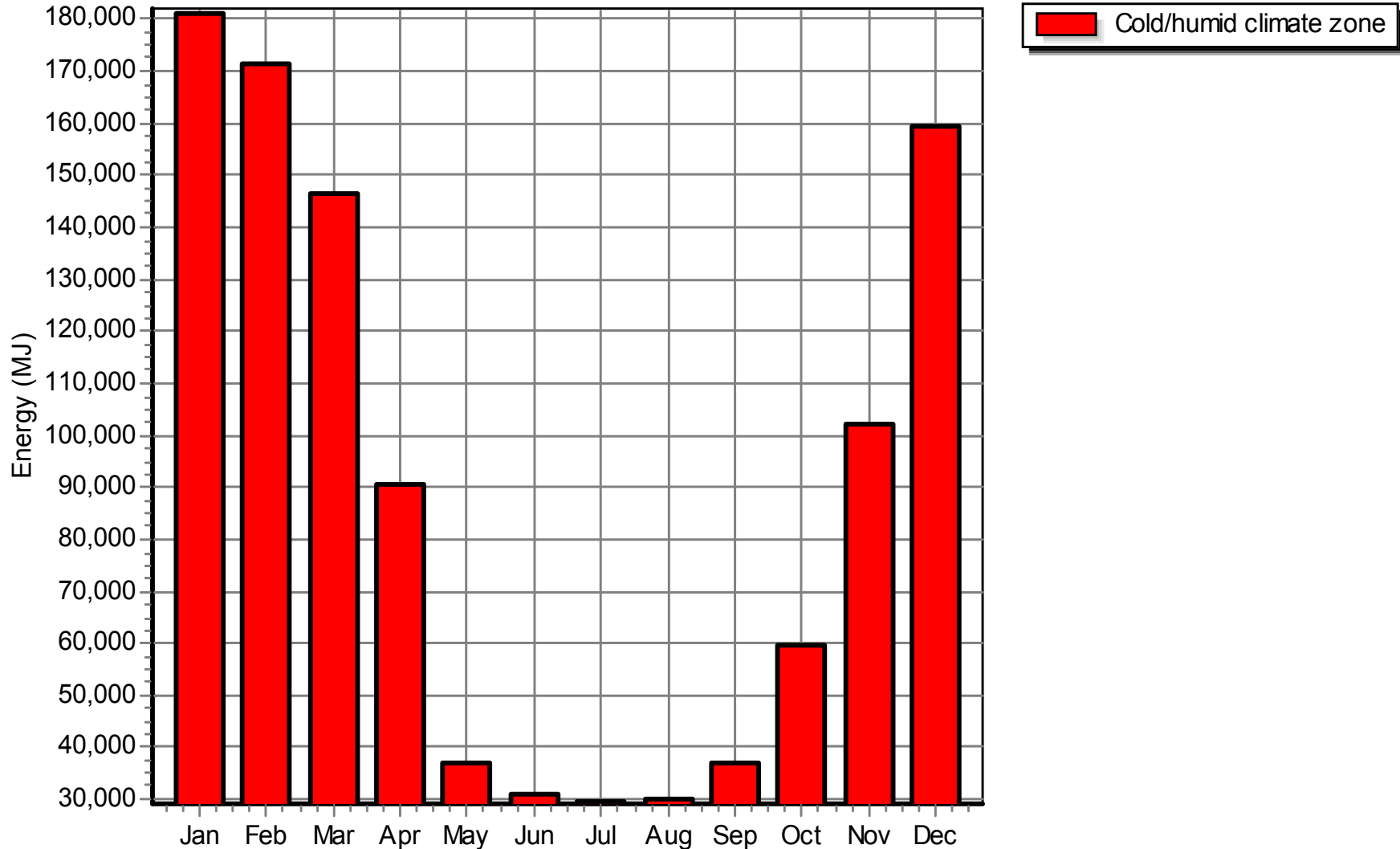
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Room NAME: Test/Sort/Probe

Total Annual HVAC Fuel Energy vs. Month By Simulation



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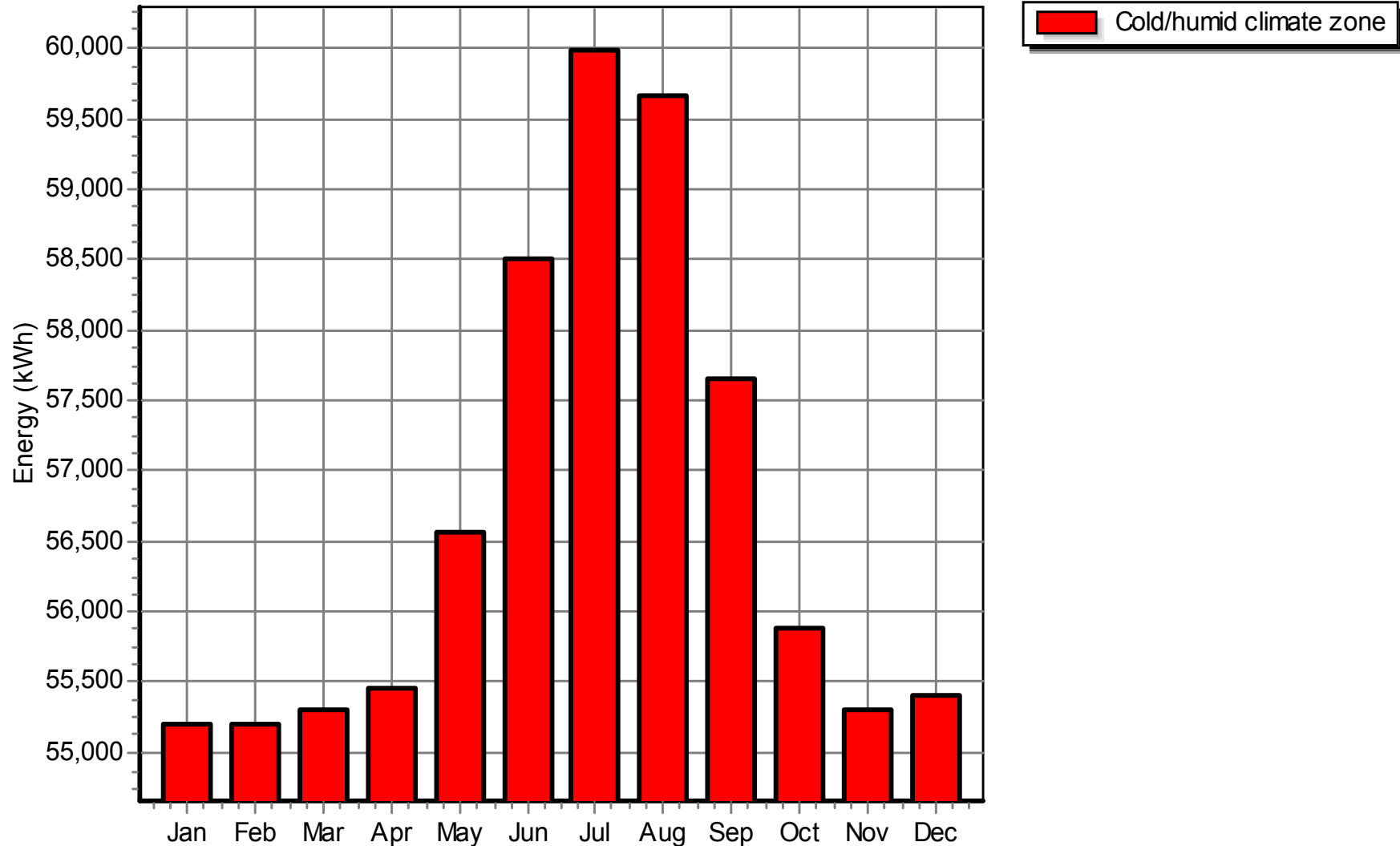
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Cooling Energy vs. Month By Simulation



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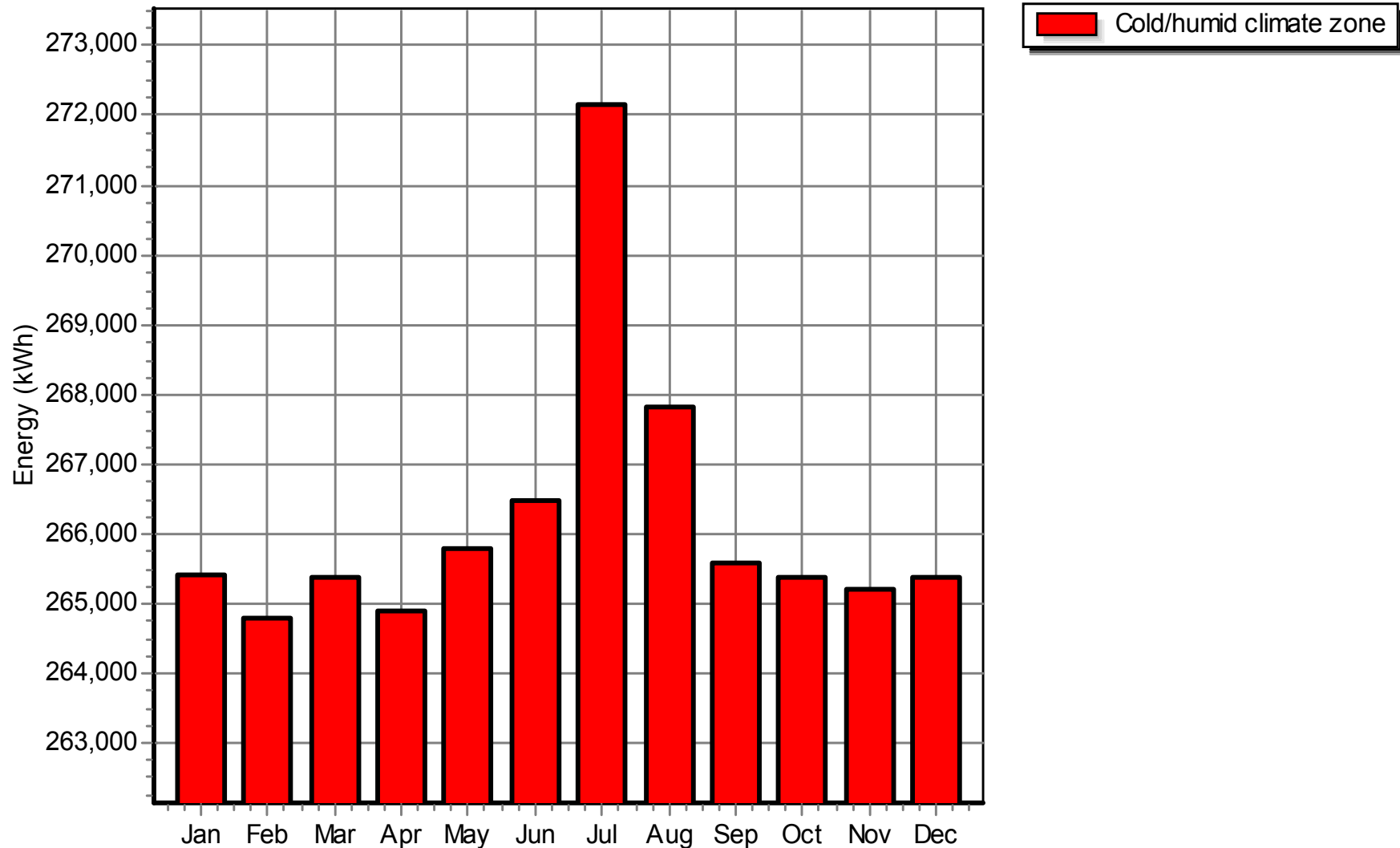


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

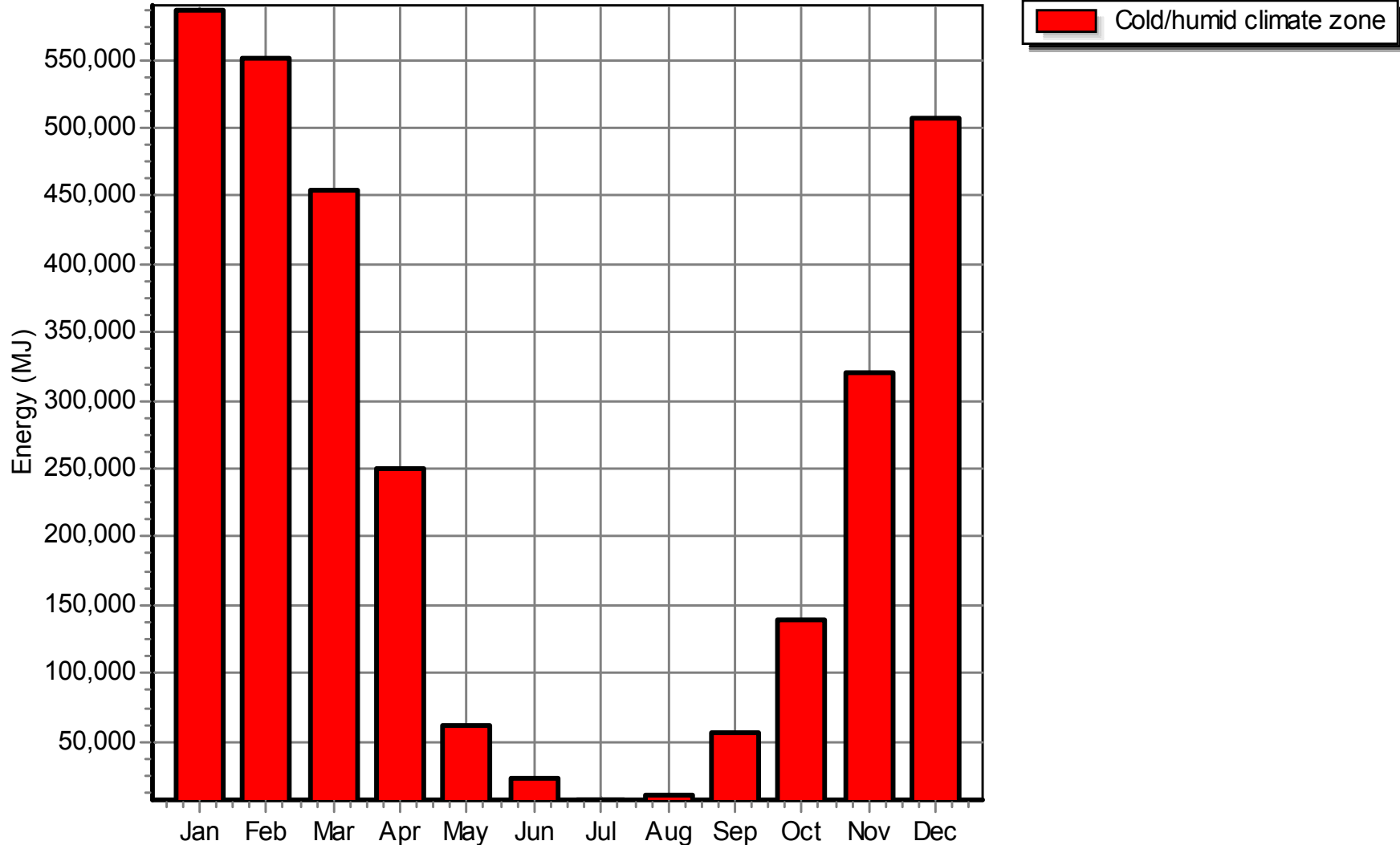


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



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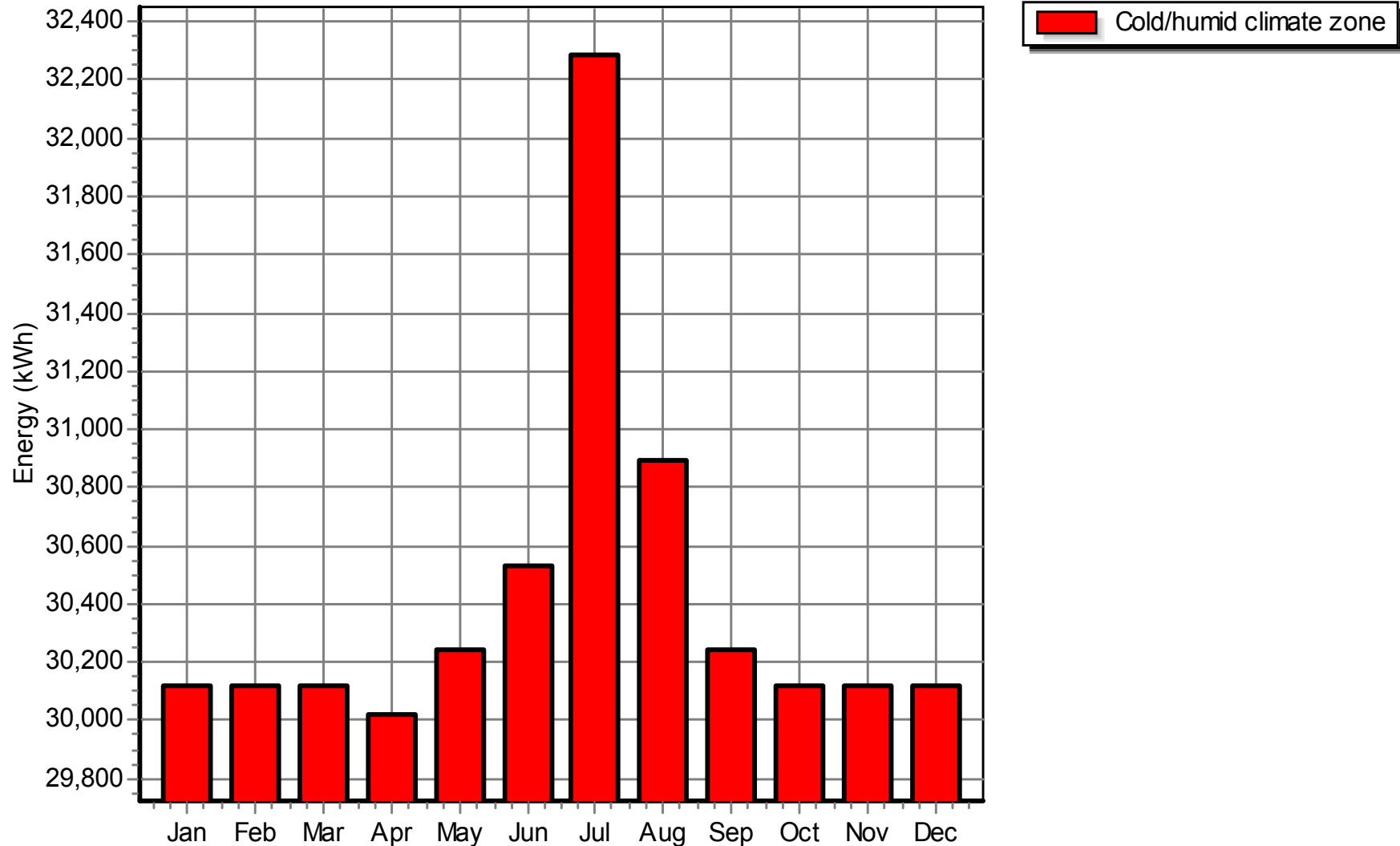


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Cooling Energy vs. Month By Simulation



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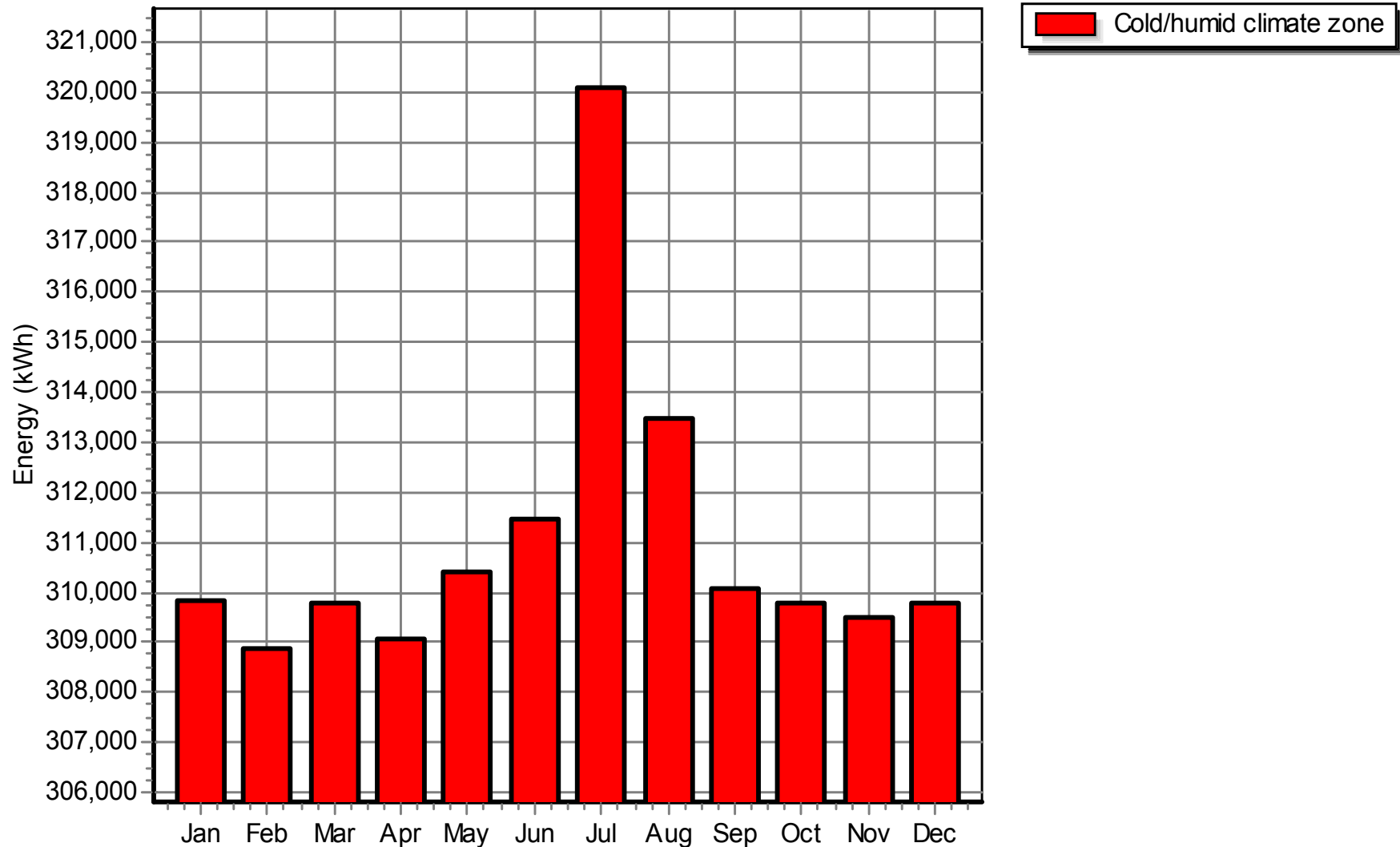


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Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

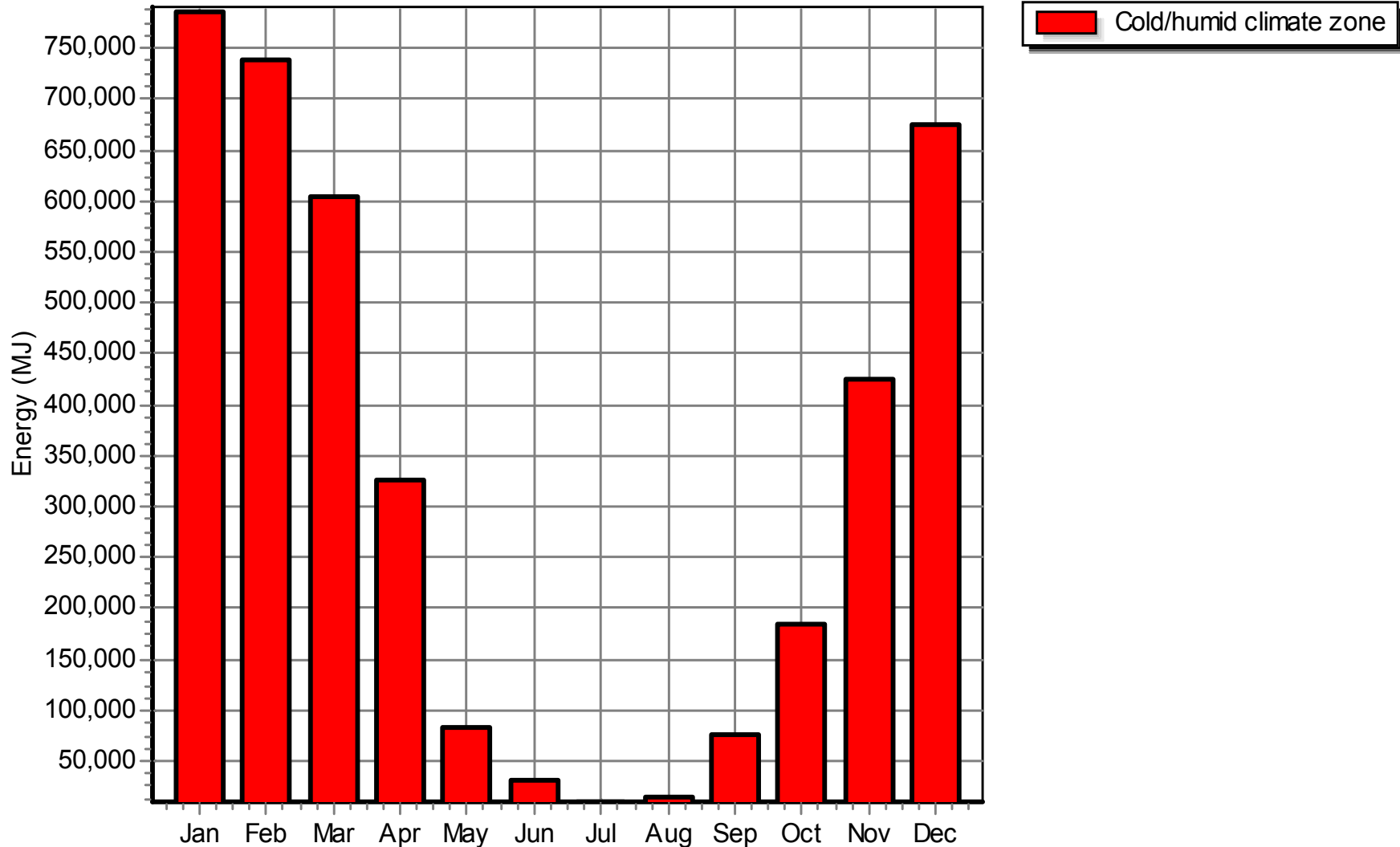


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2/1/2010

Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

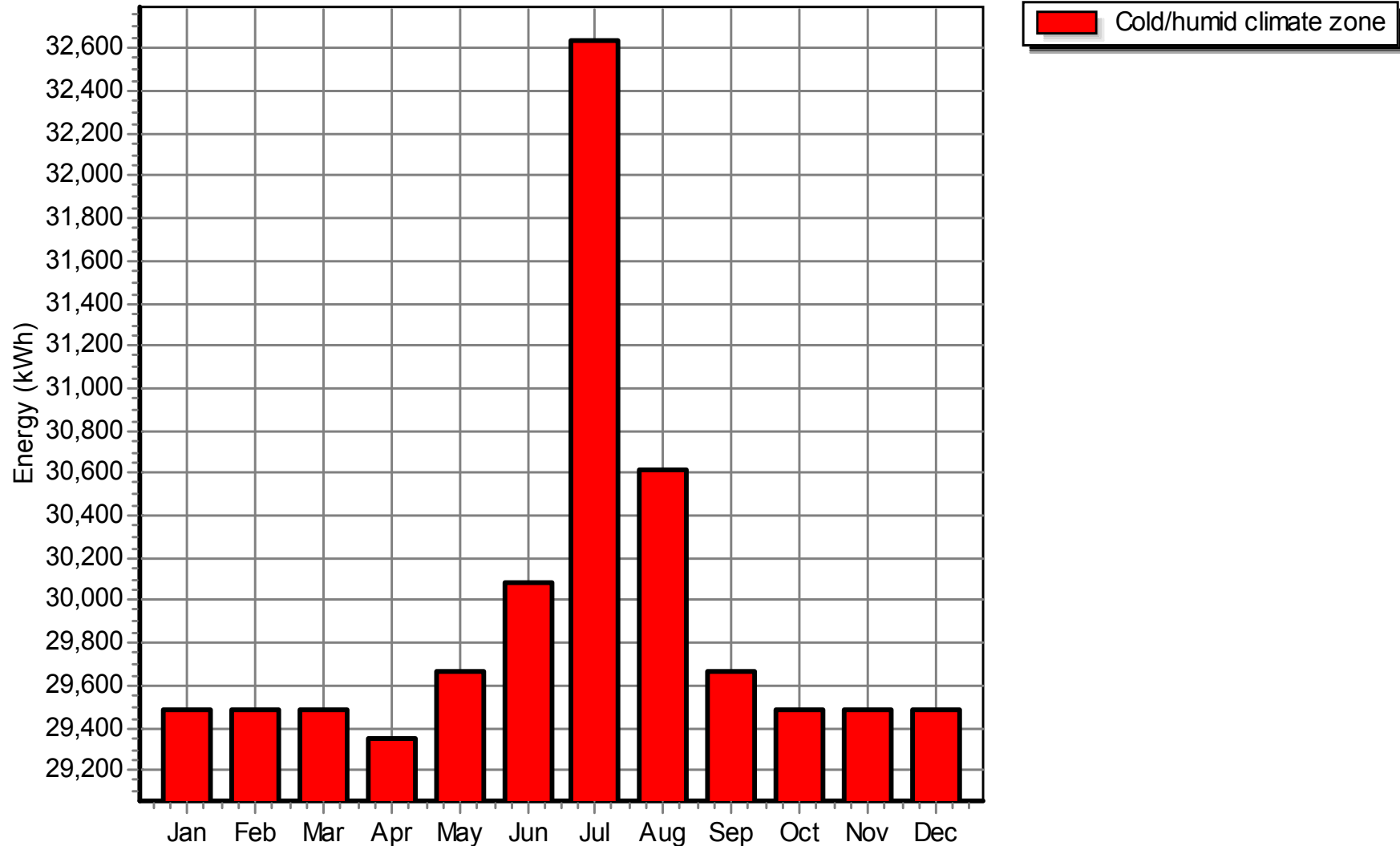


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2/1/2010

Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual Cooling Energy vs. Month By Simulation



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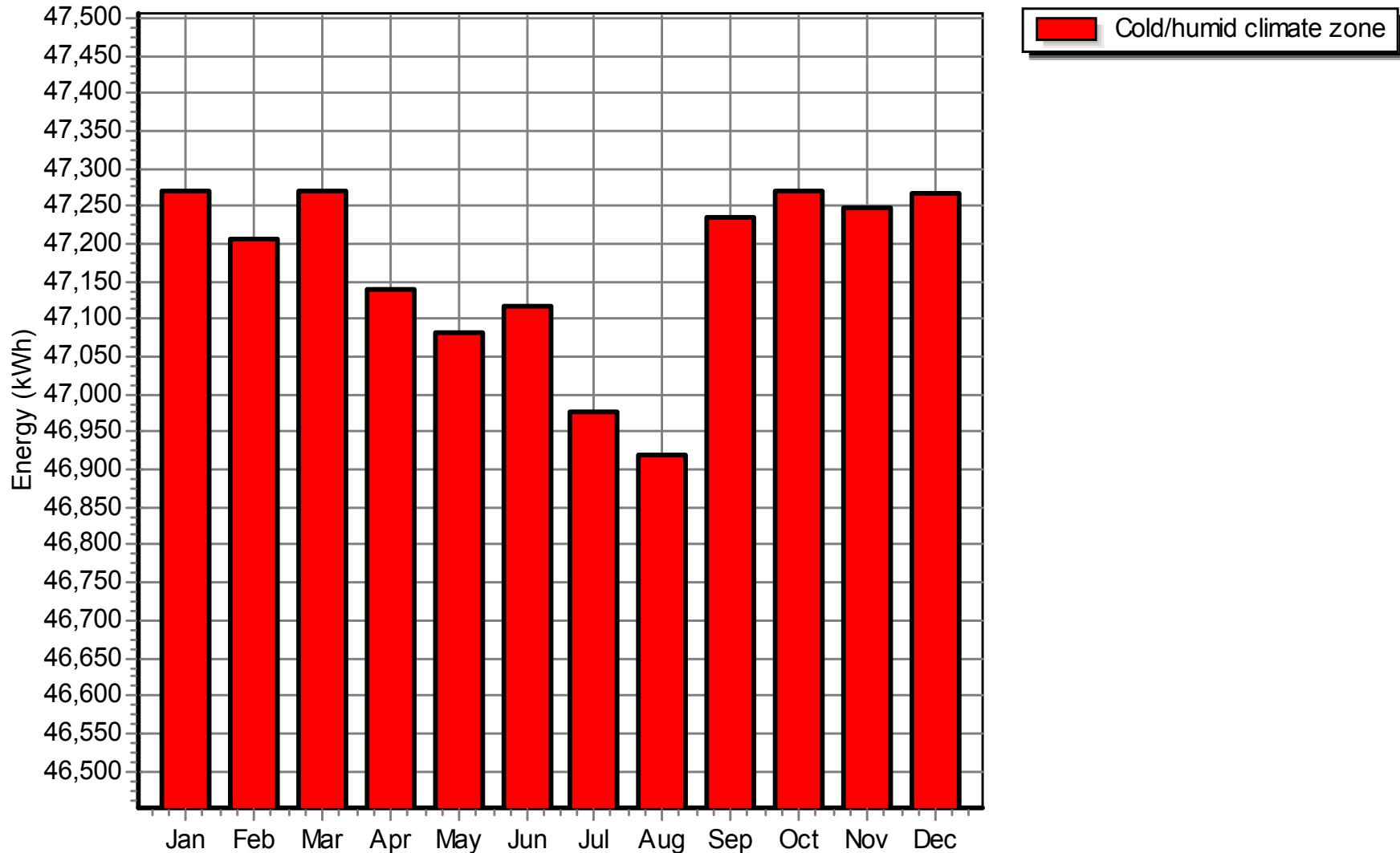


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2/1/2010

Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Electric Energy vs. Month By Simulation



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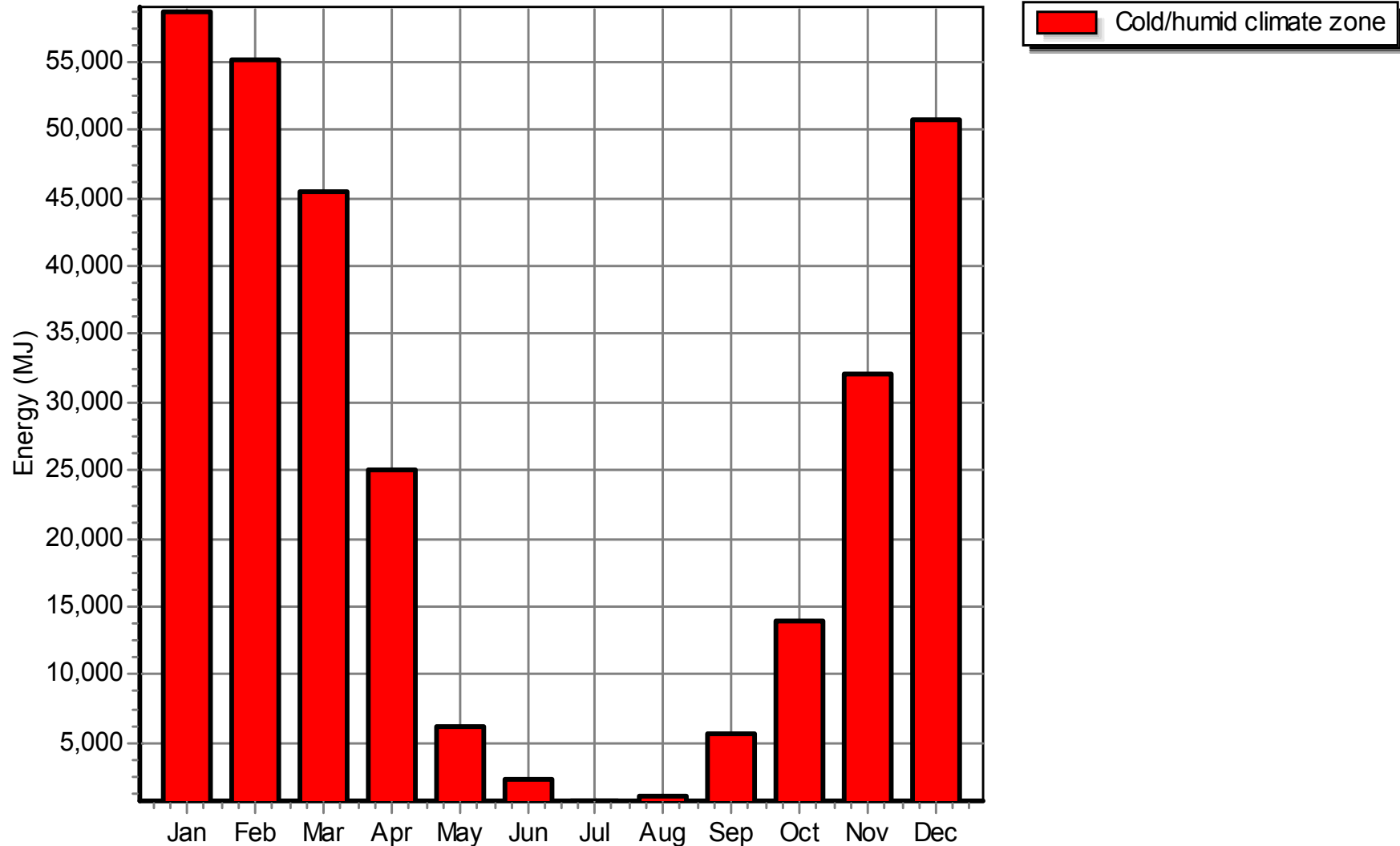


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Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



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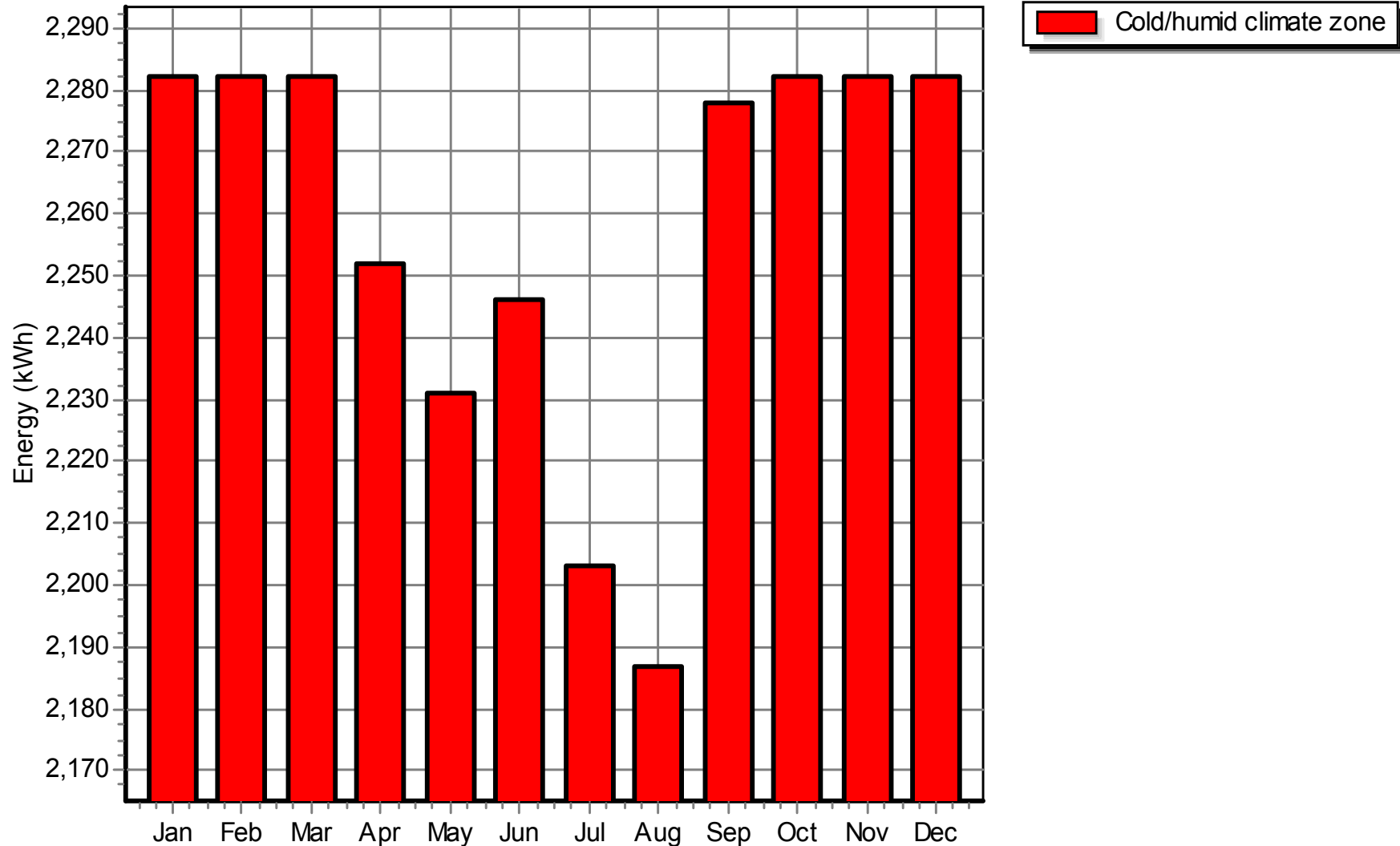


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Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Cooling Energy vs. Month By Simulation



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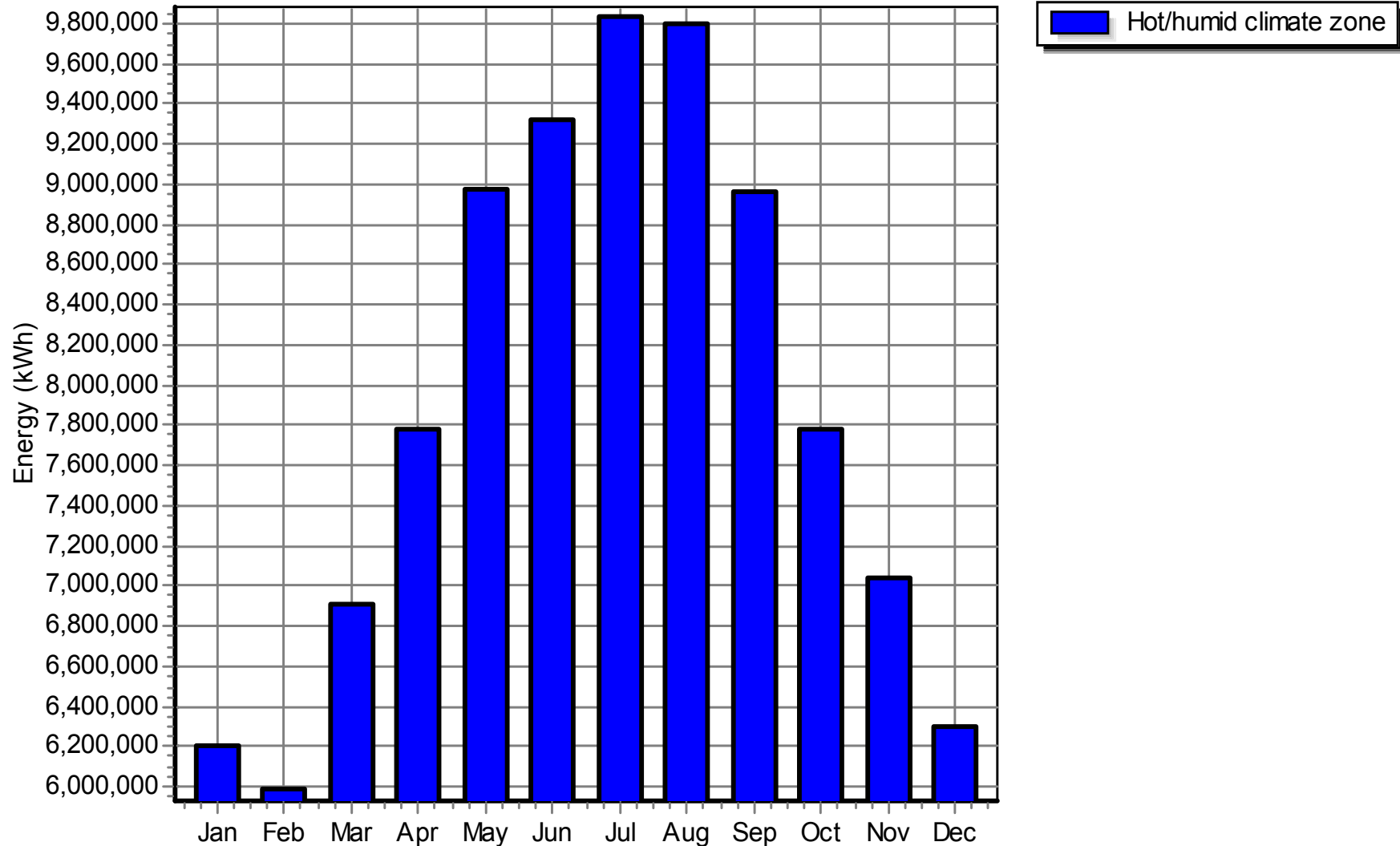
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Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



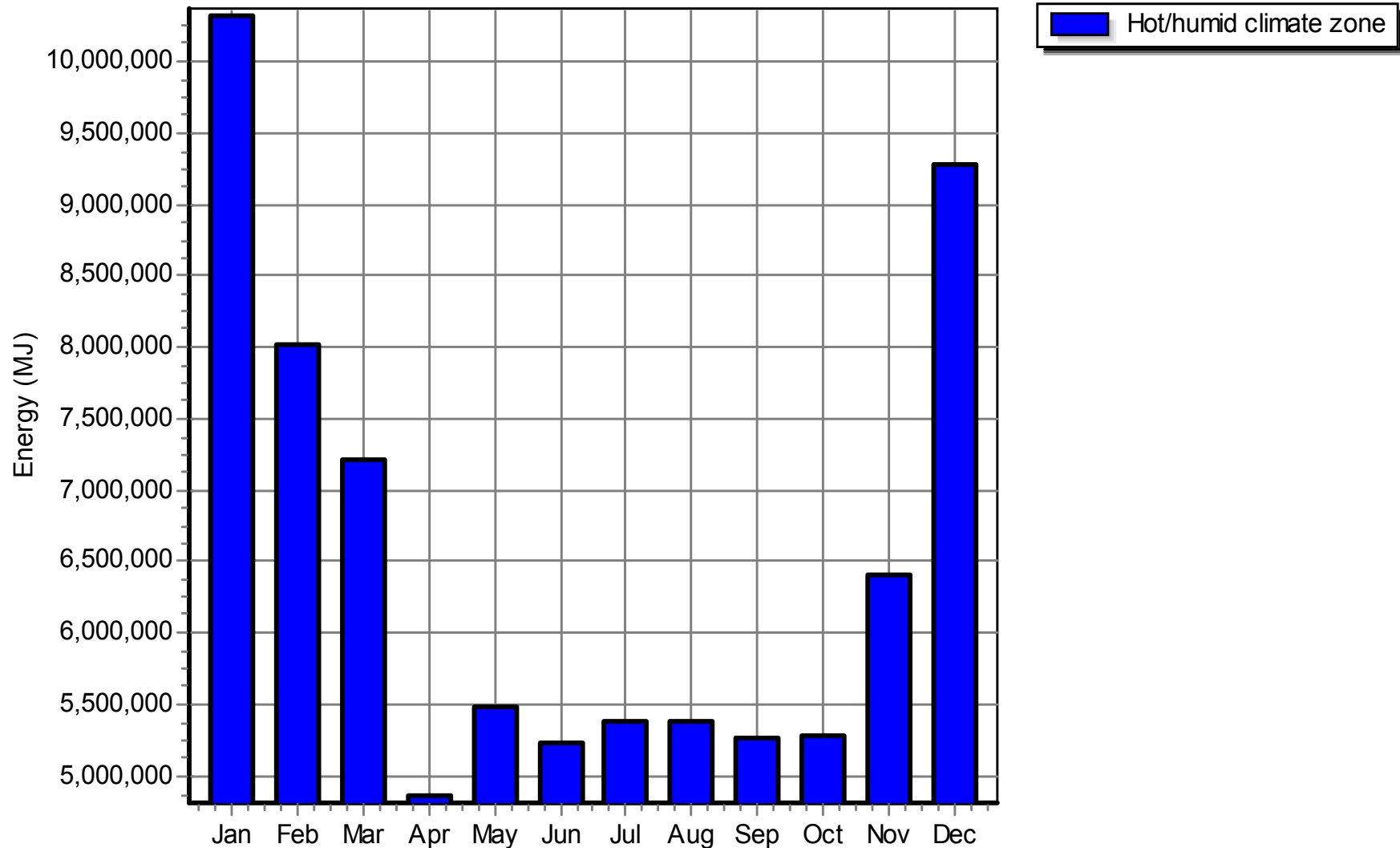
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Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual HVAC Fuel Energy vs. Month By Simulation



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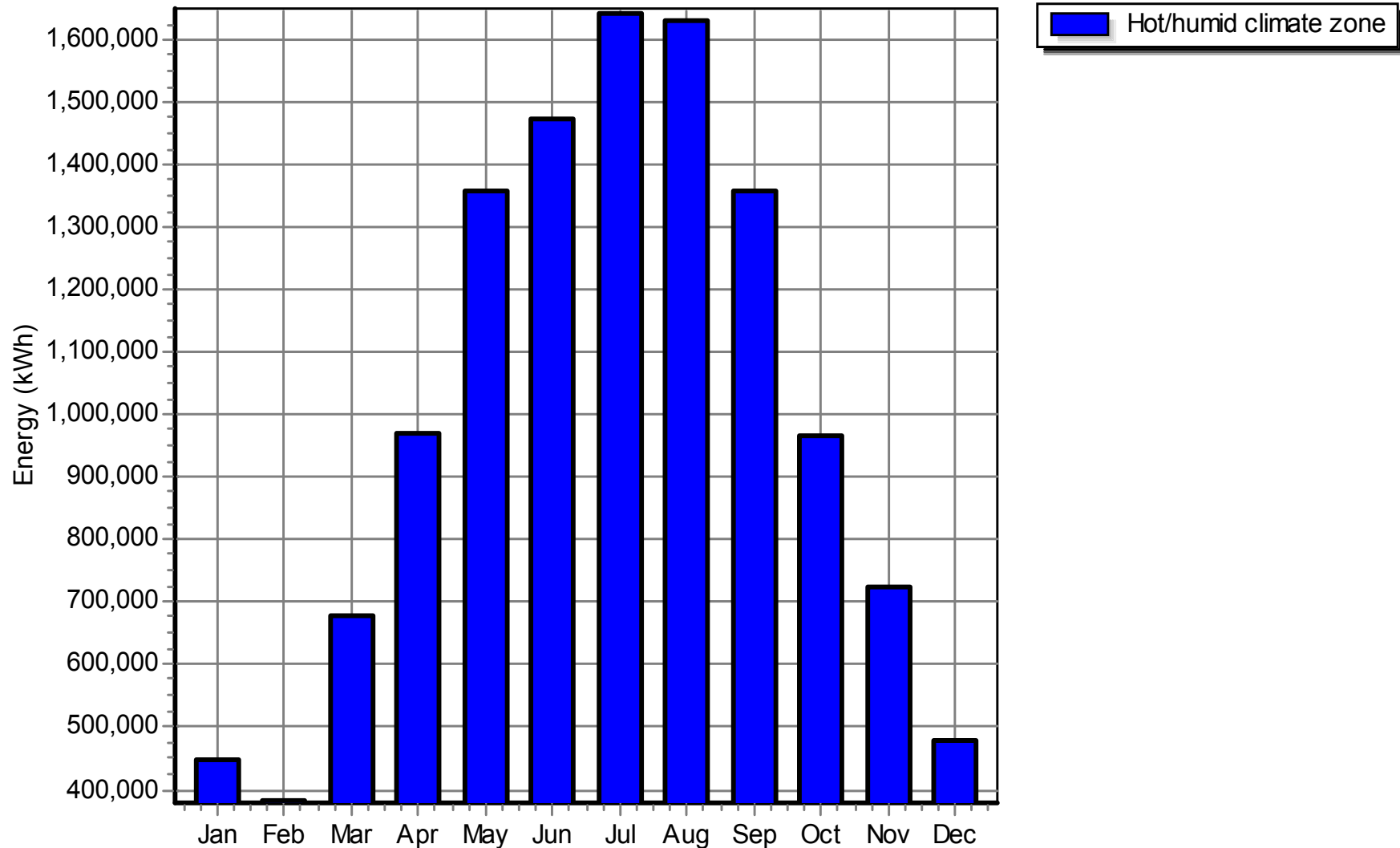
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Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Cooling Energy vs. Month By Simulation



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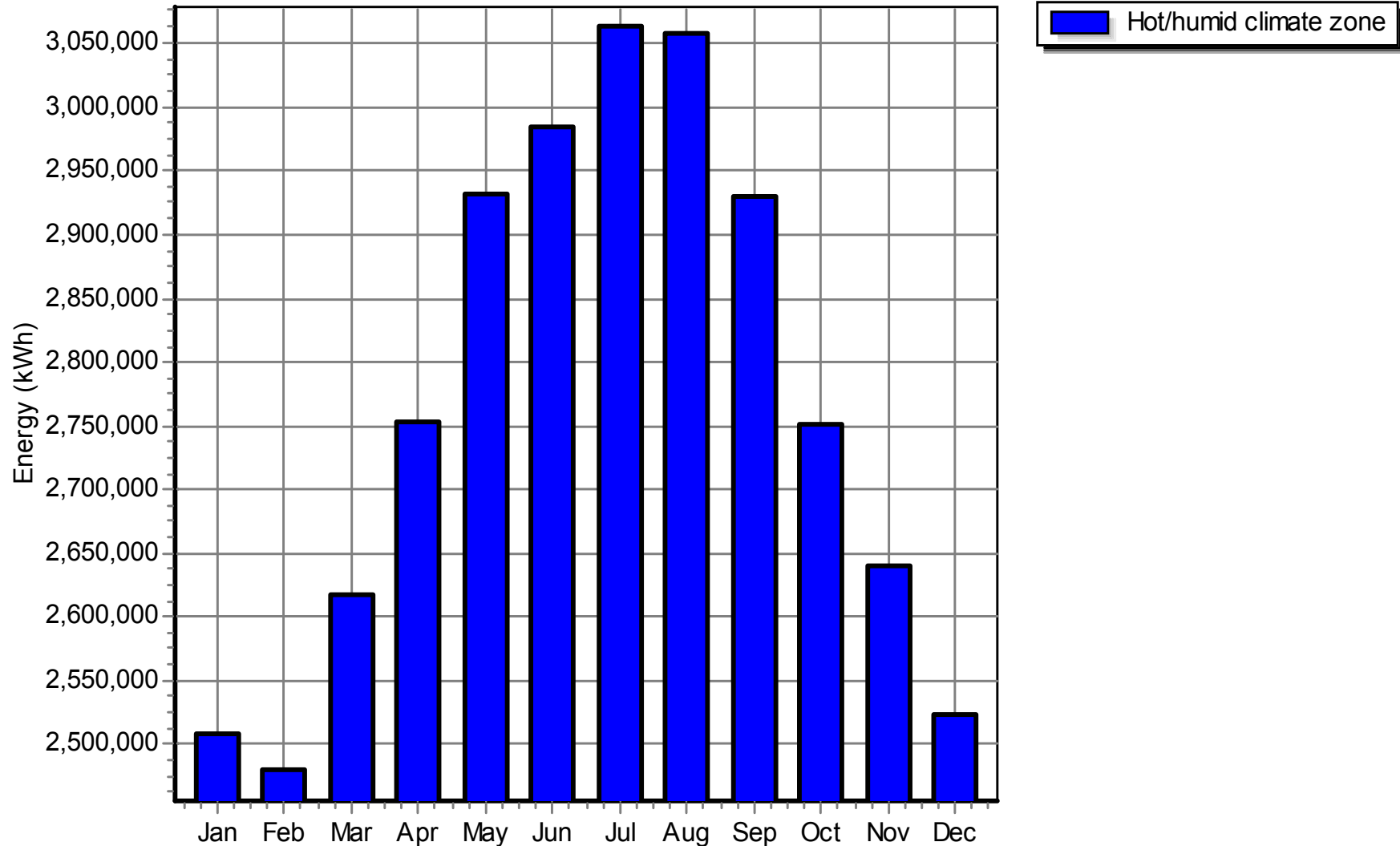
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2/1/2010

Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



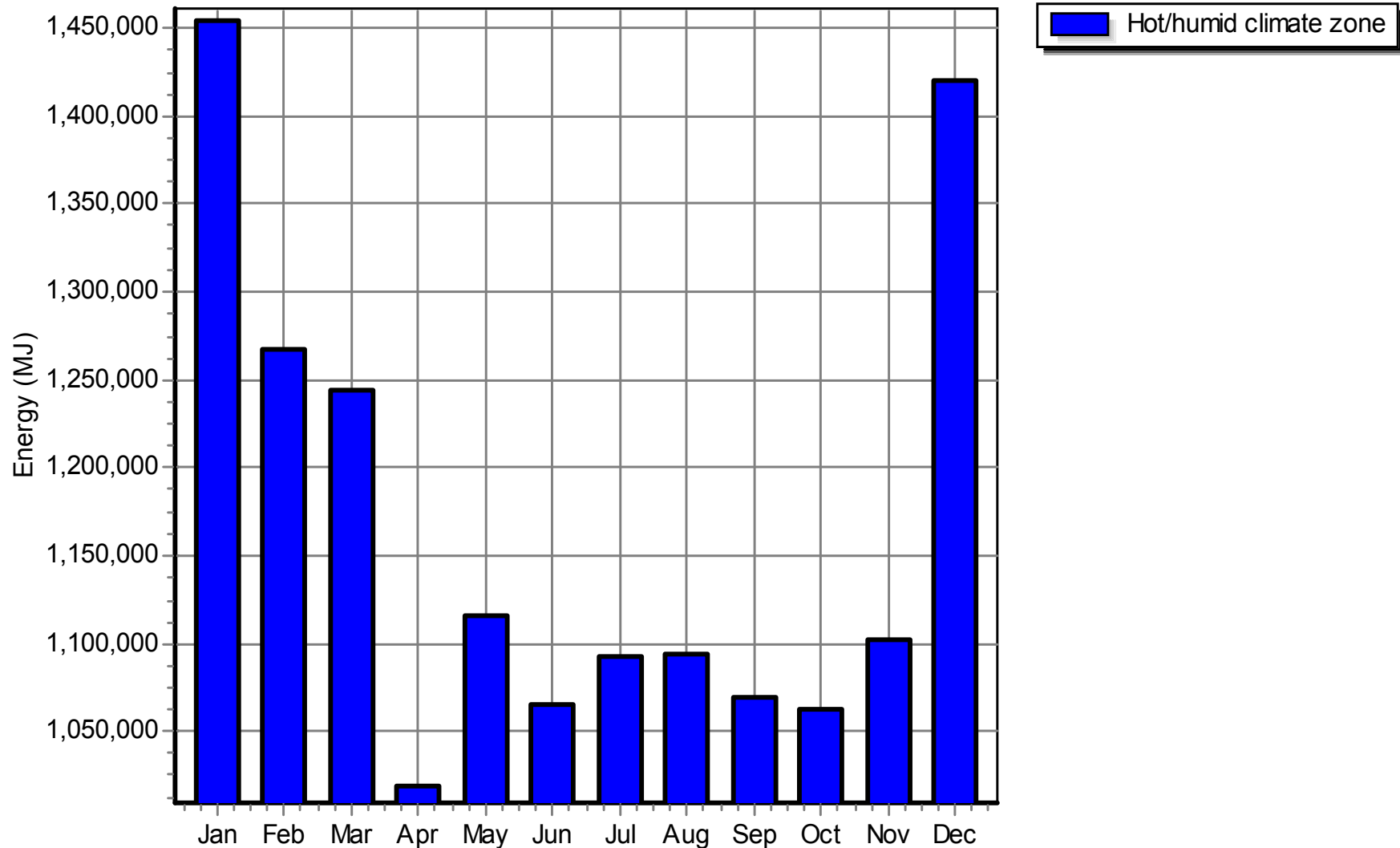
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Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

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Note: Output values are estimates only and actual results may vary.



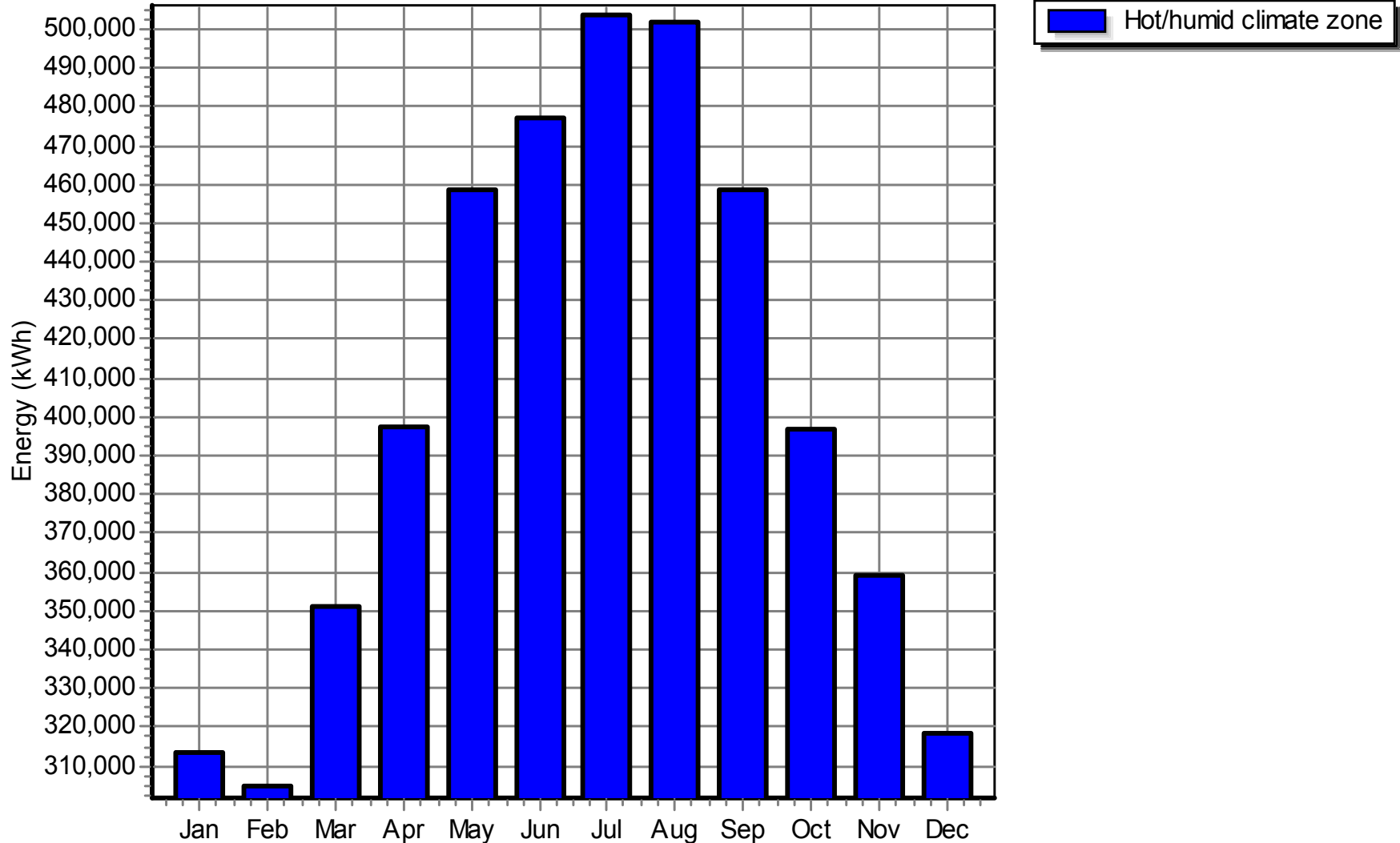
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Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Cooling Energy vs. Month By Simulation



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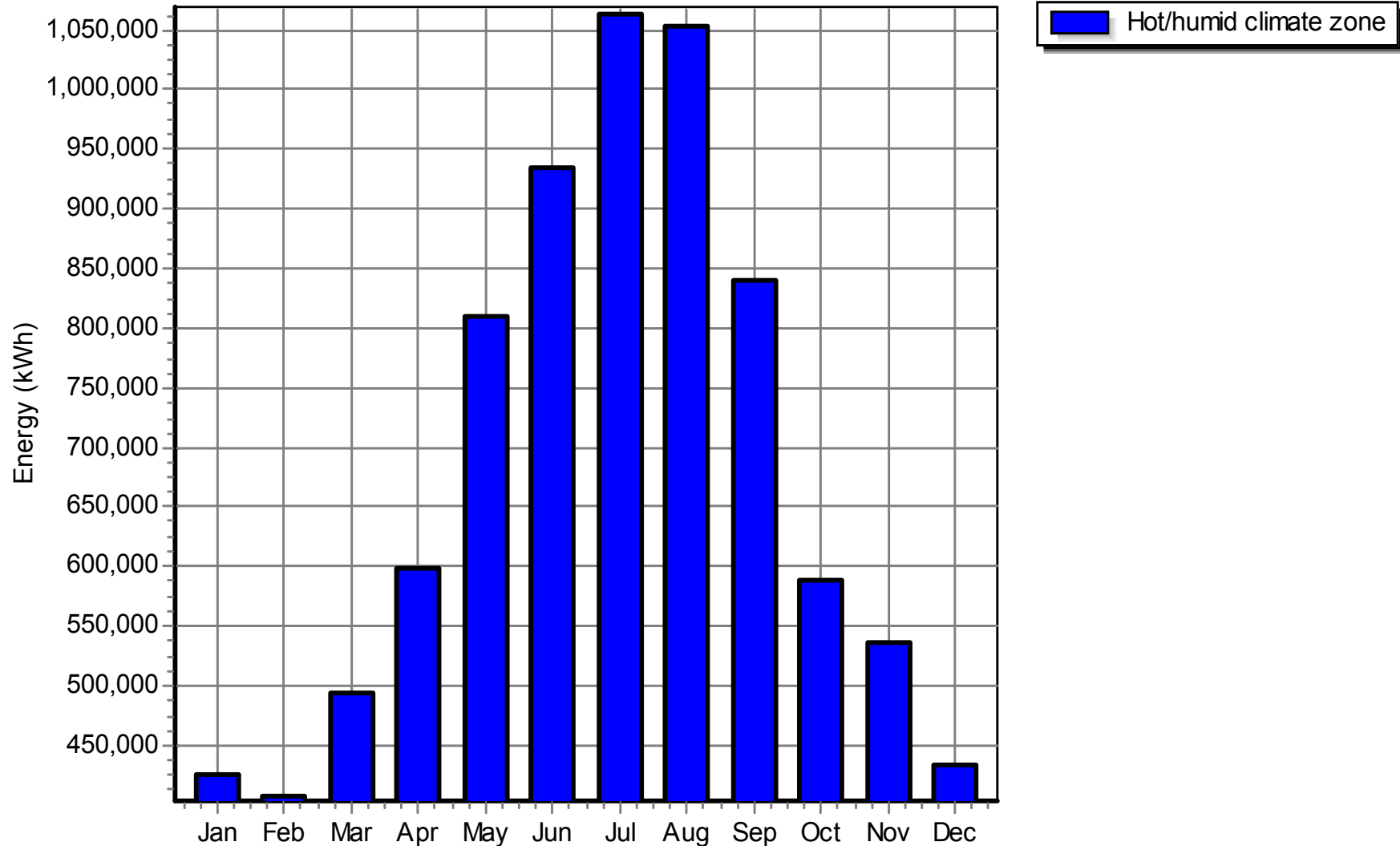
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



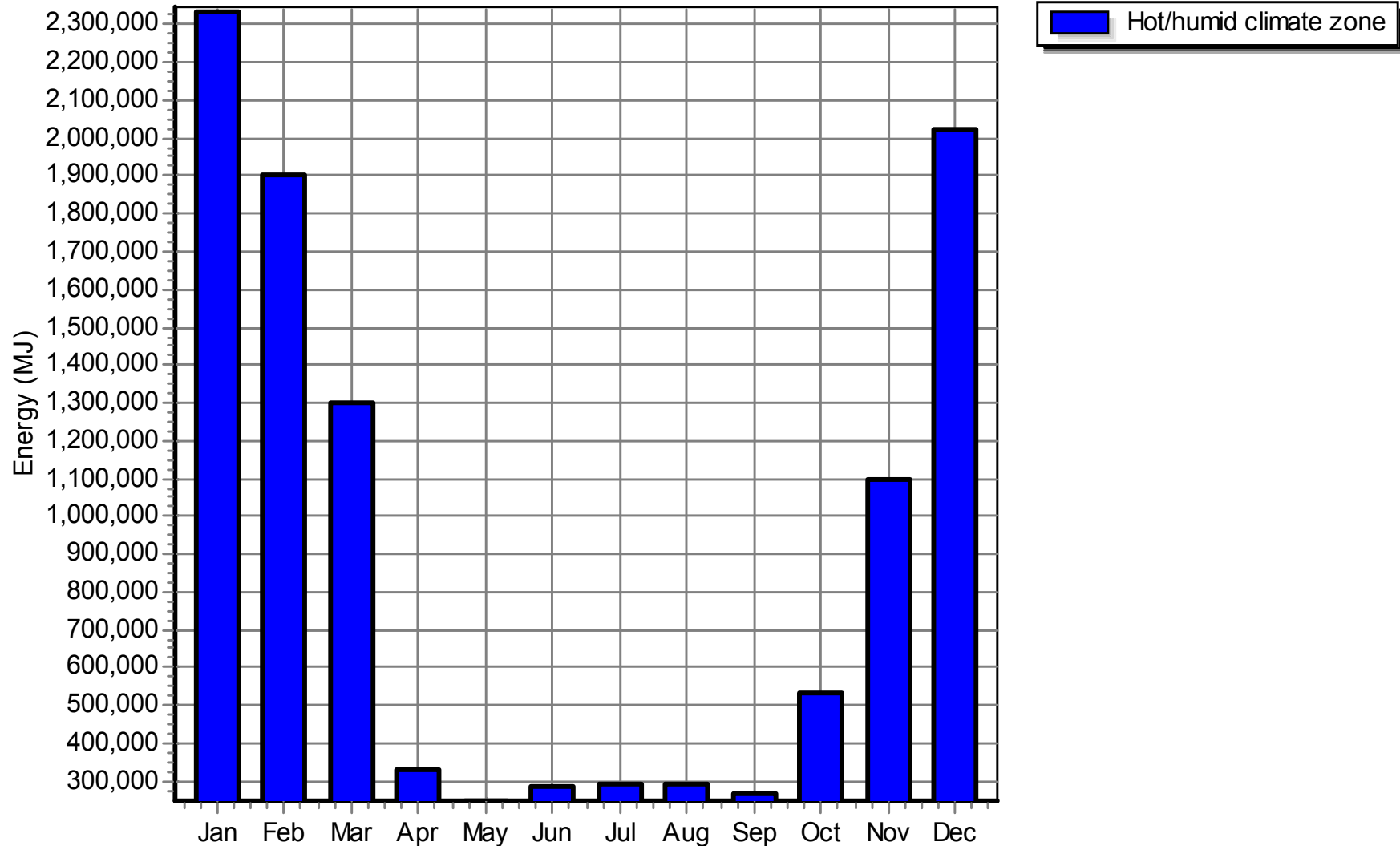
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual HVAC Fuel Energy vs. Month By Simulation



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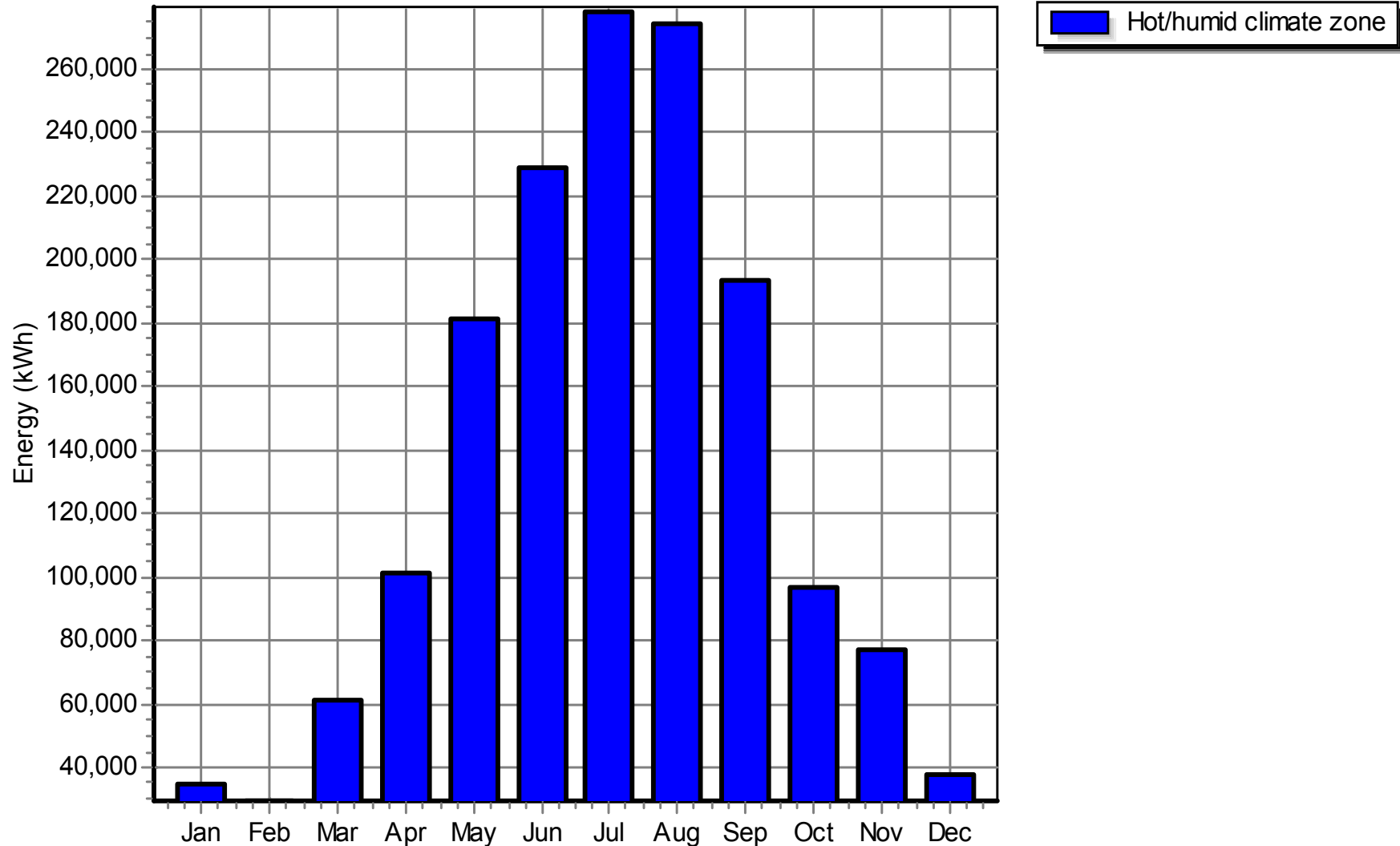
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2/1/2010

Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Cooling Energy vs. Month By Simulation



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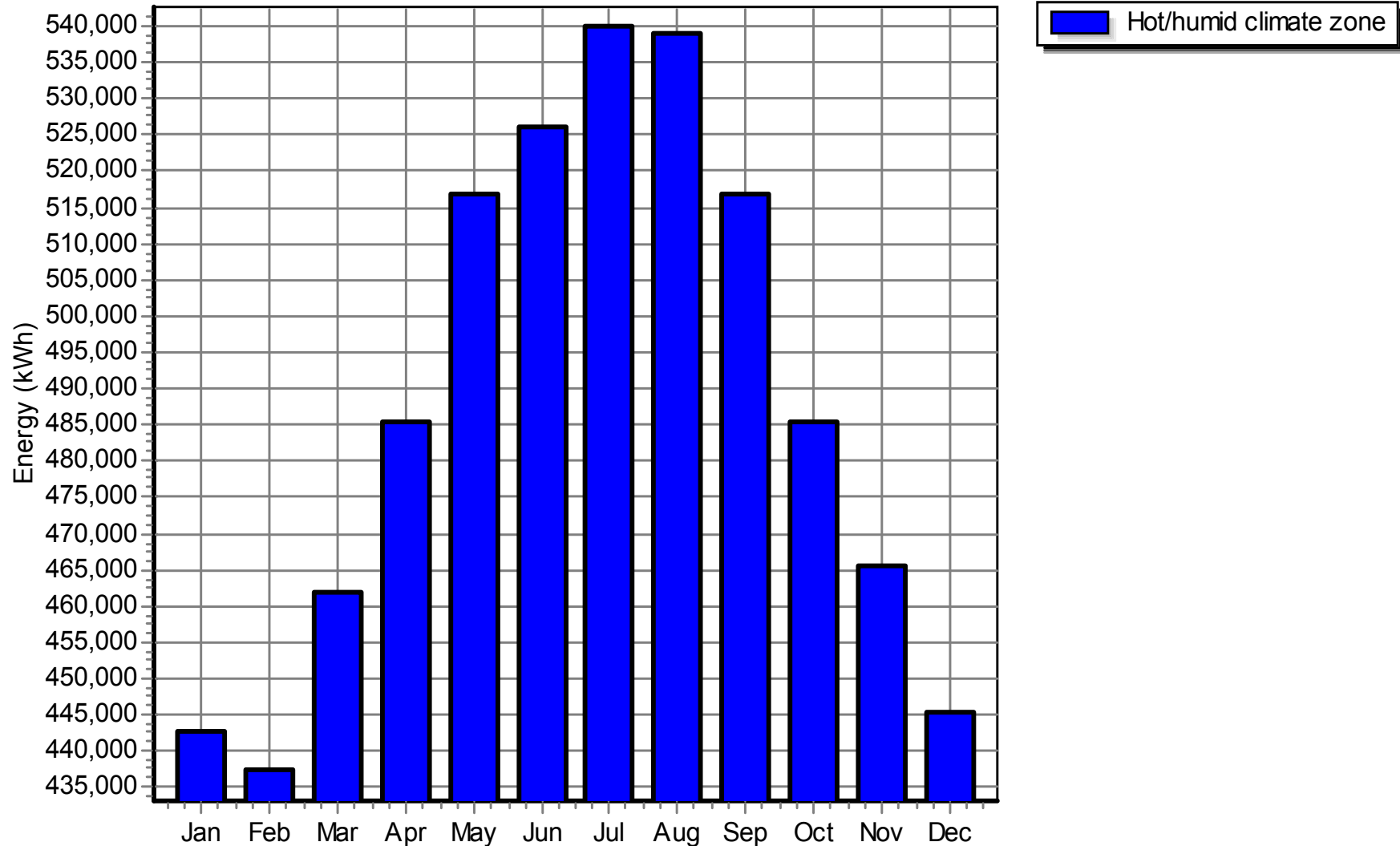
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2/1/2010

Room TYPE: Clean Support

Room NAME: Clean Support

Total Annual Electric Energy vs. Month By Simulation



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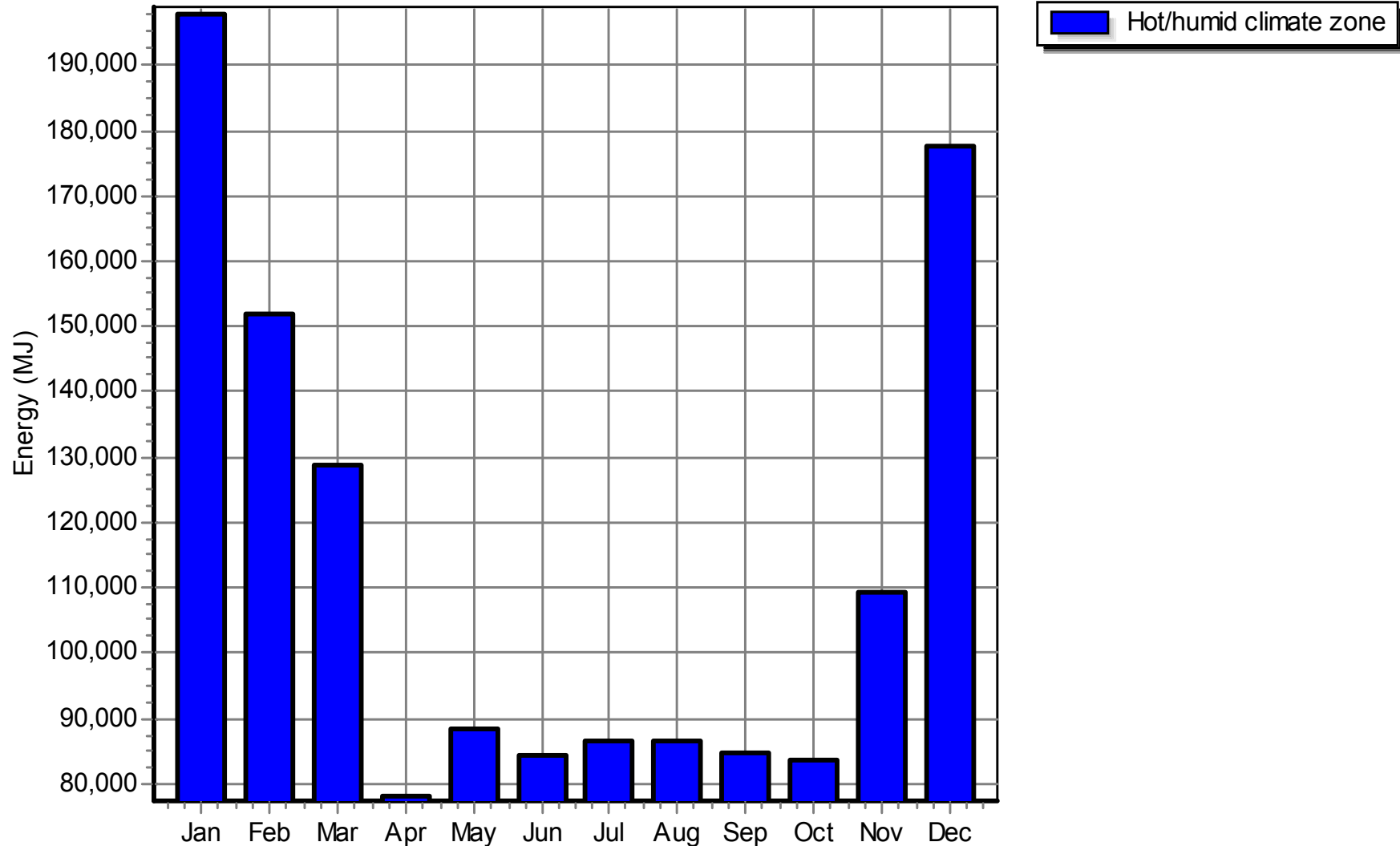


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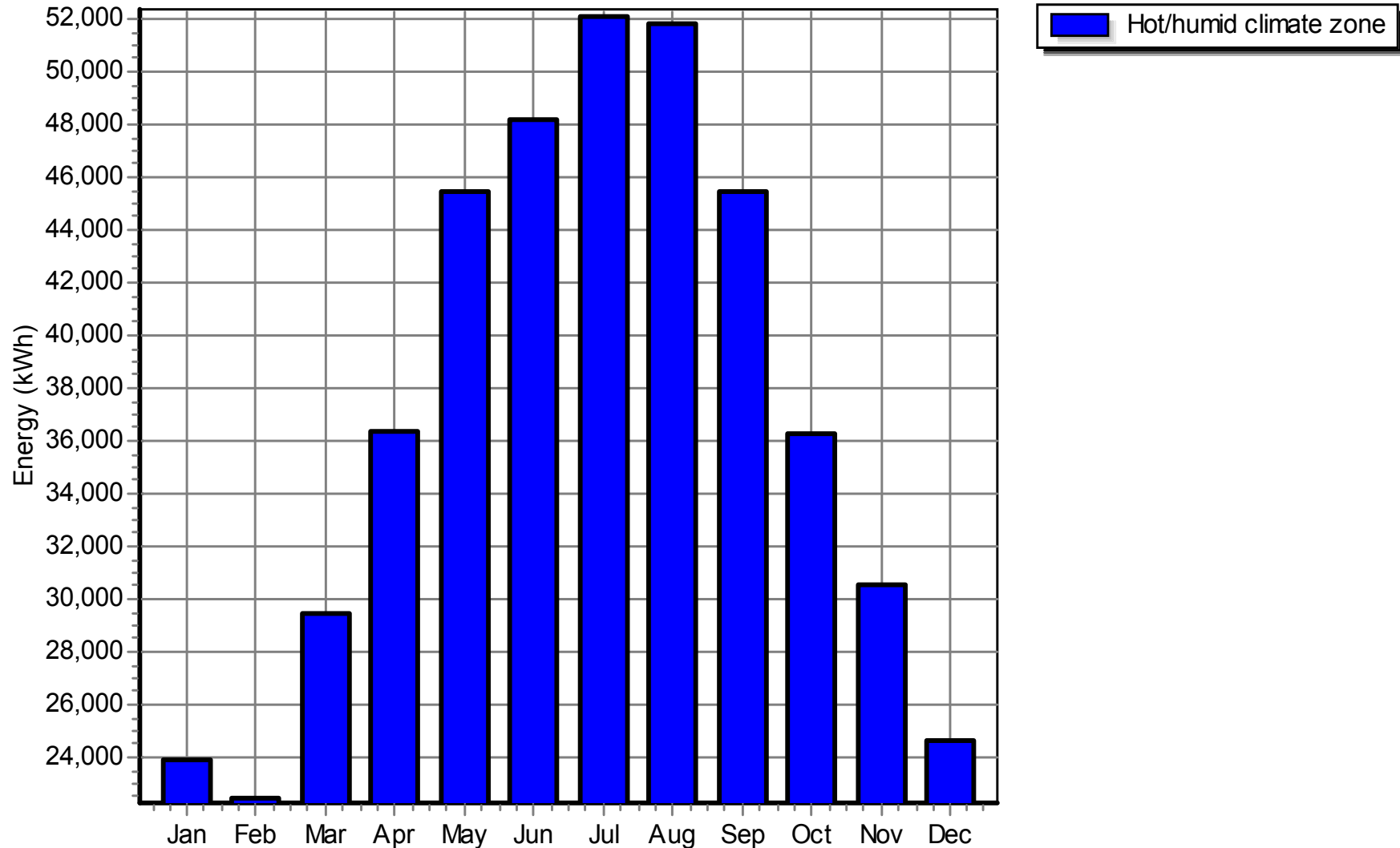
Prepared By: Bob Hanna
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Email: sales@handsdownsoftware.com

CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Clean Support

Room NAME: Clean Support

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



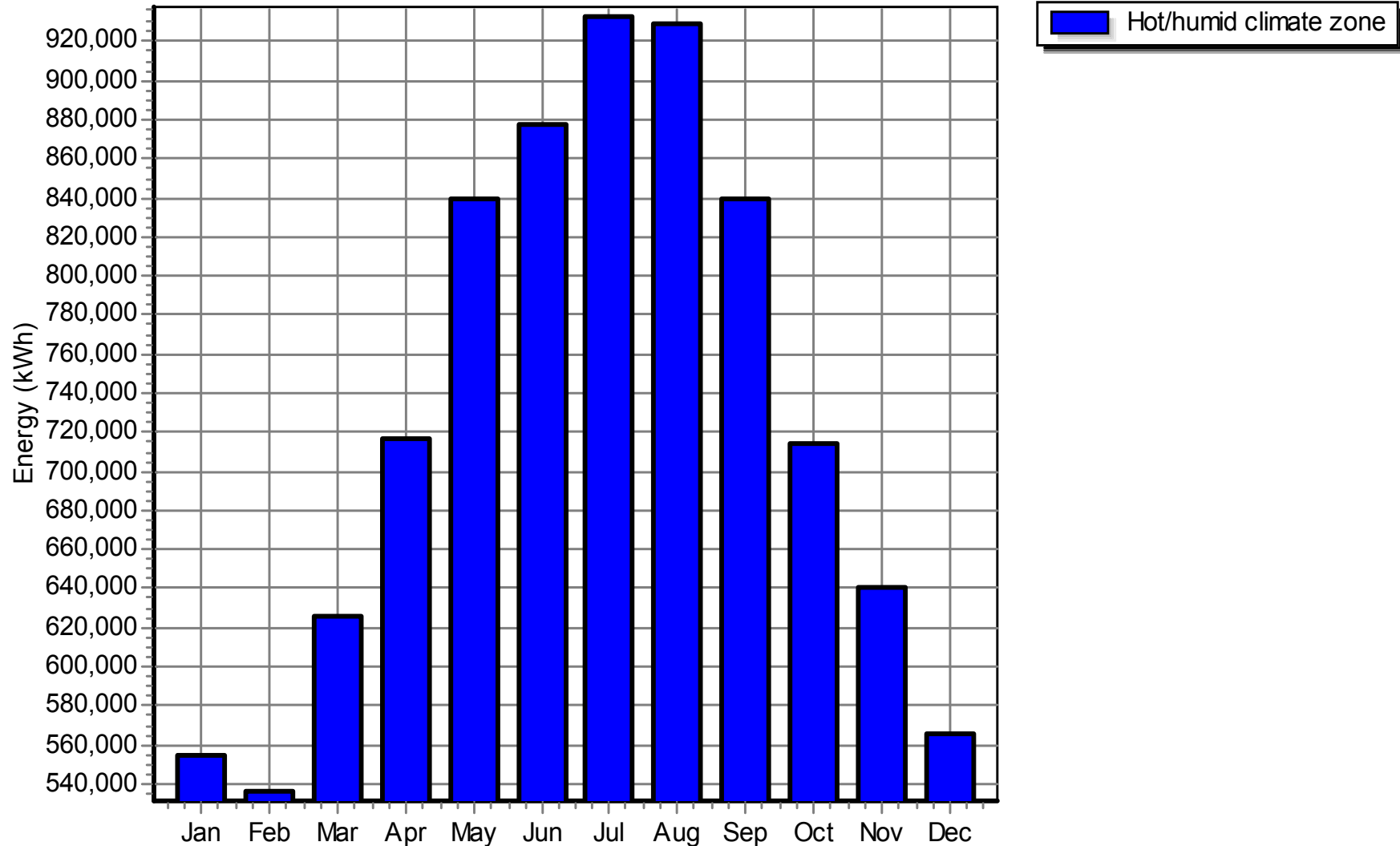
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CleanCalc
Clean Room Energy Simulation Analysis
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2/1/2010

Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



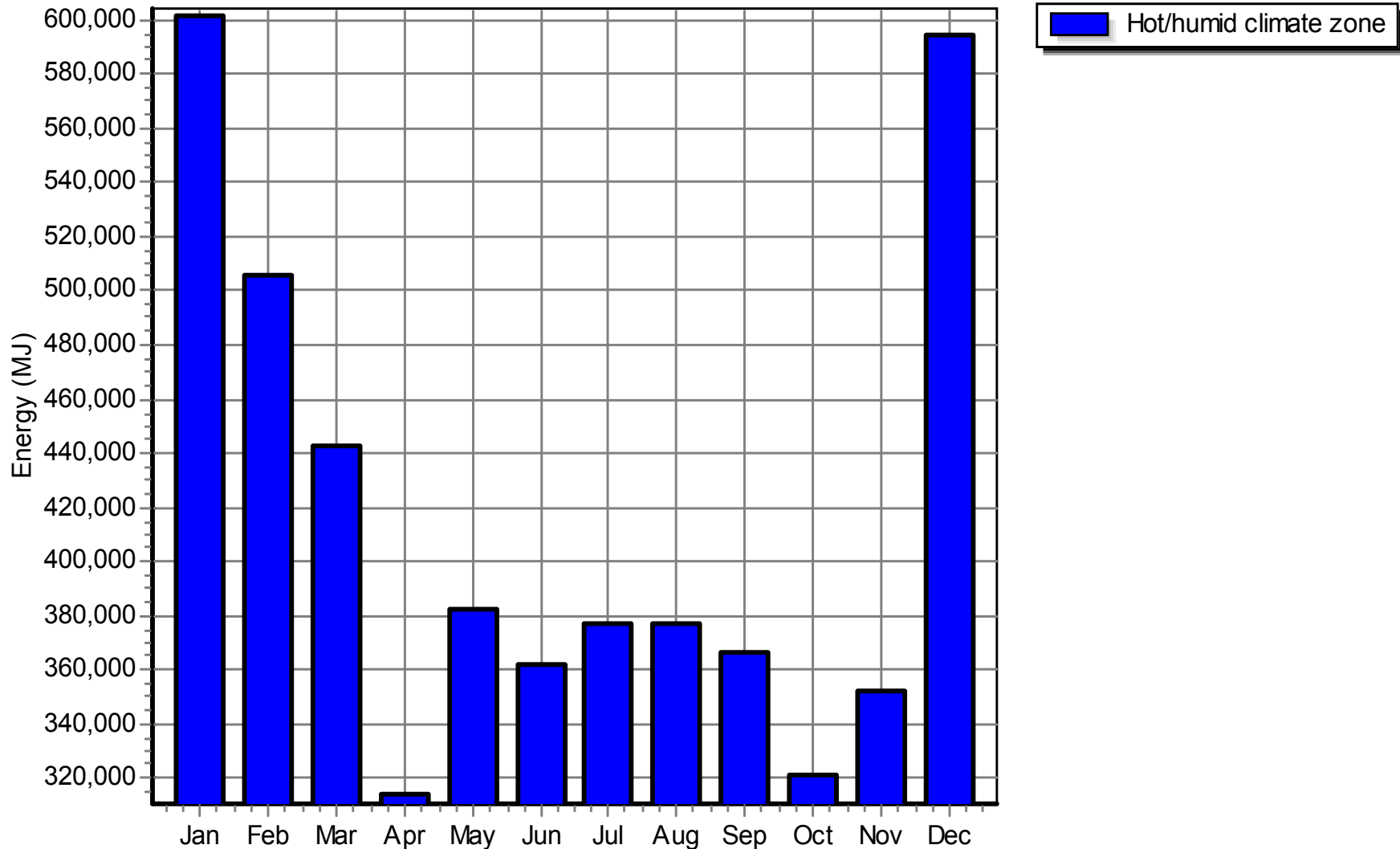
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Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



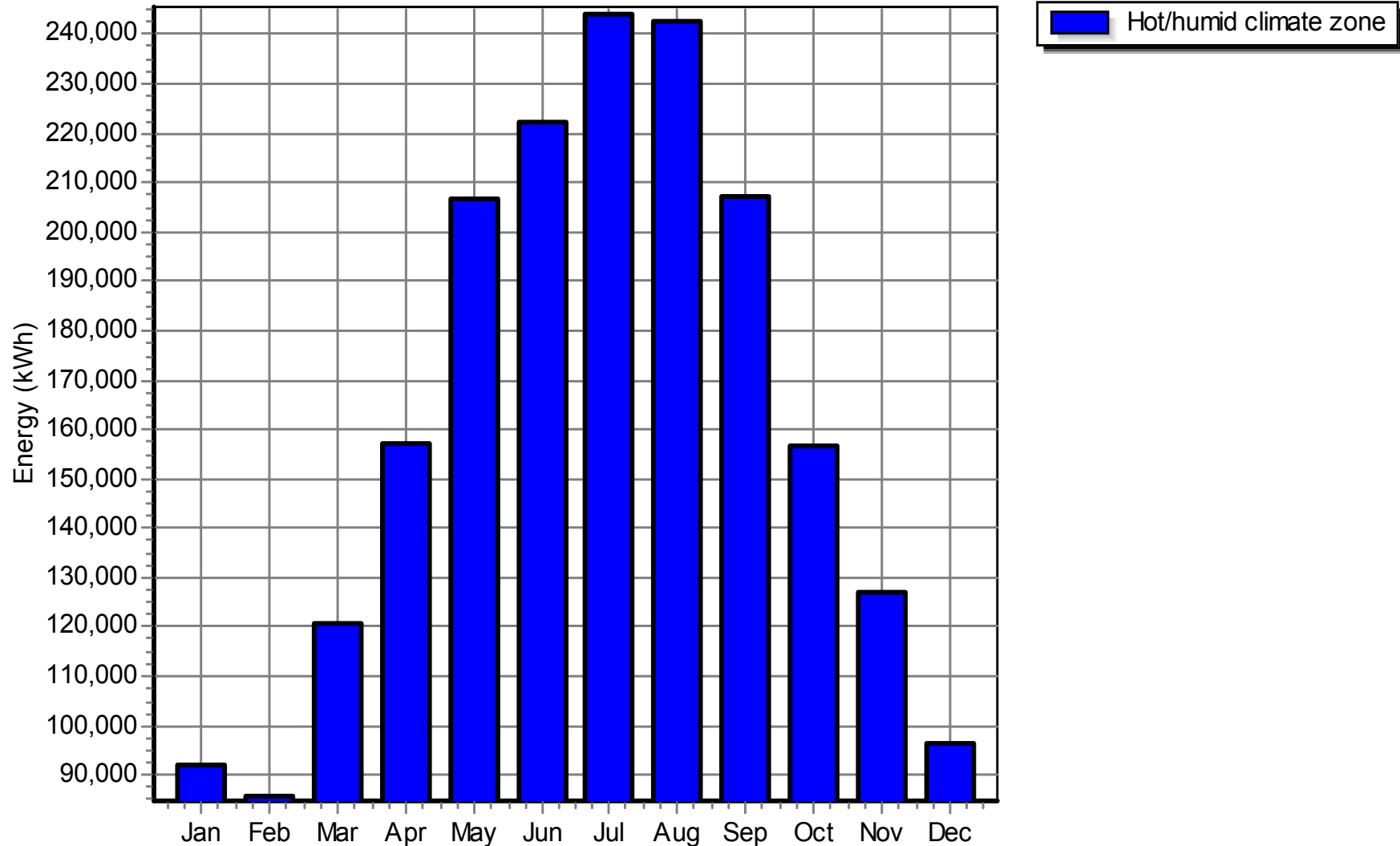
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Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



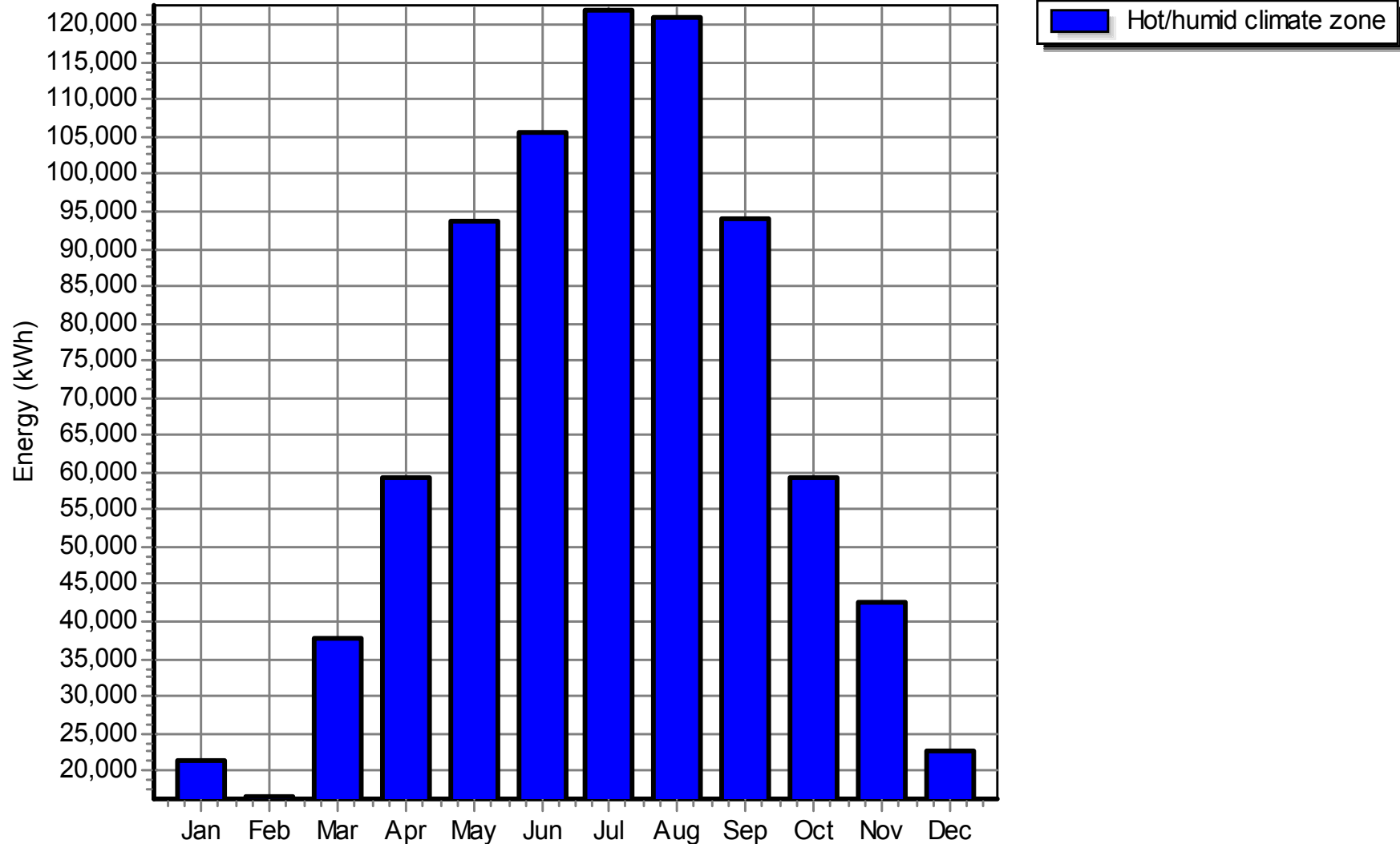
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



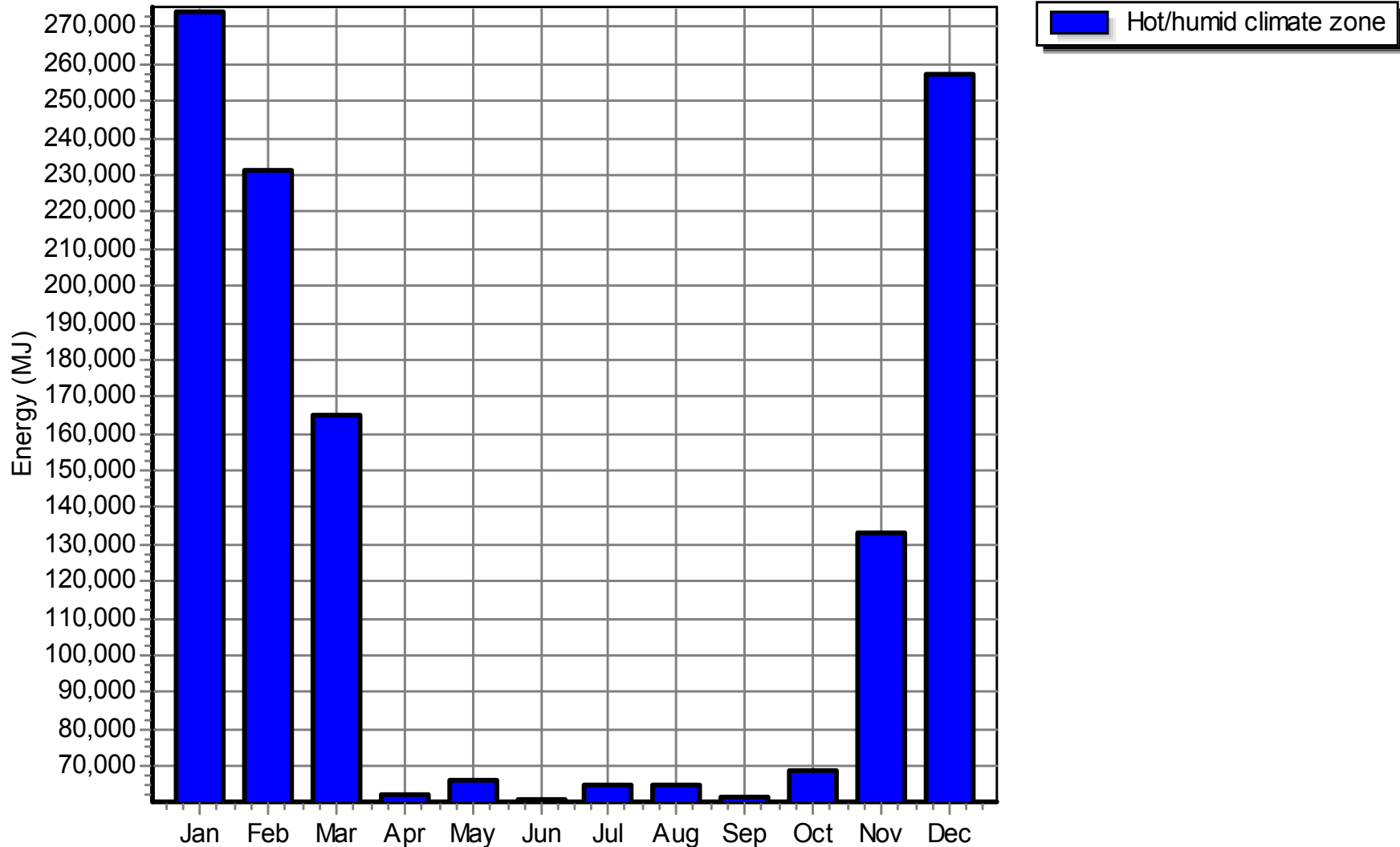
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual HVAC Fuel Energy vs. Month By Simulation



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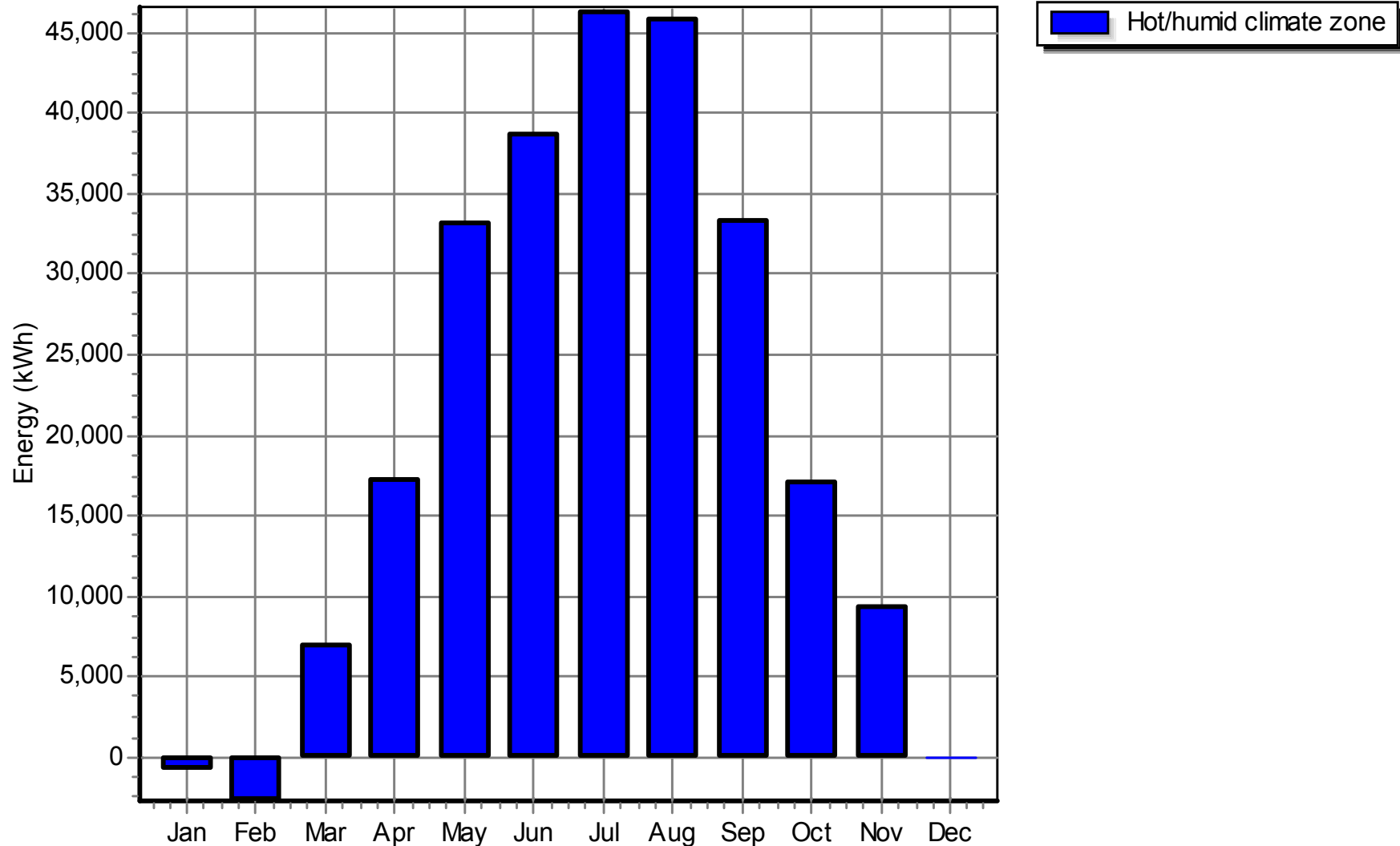
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



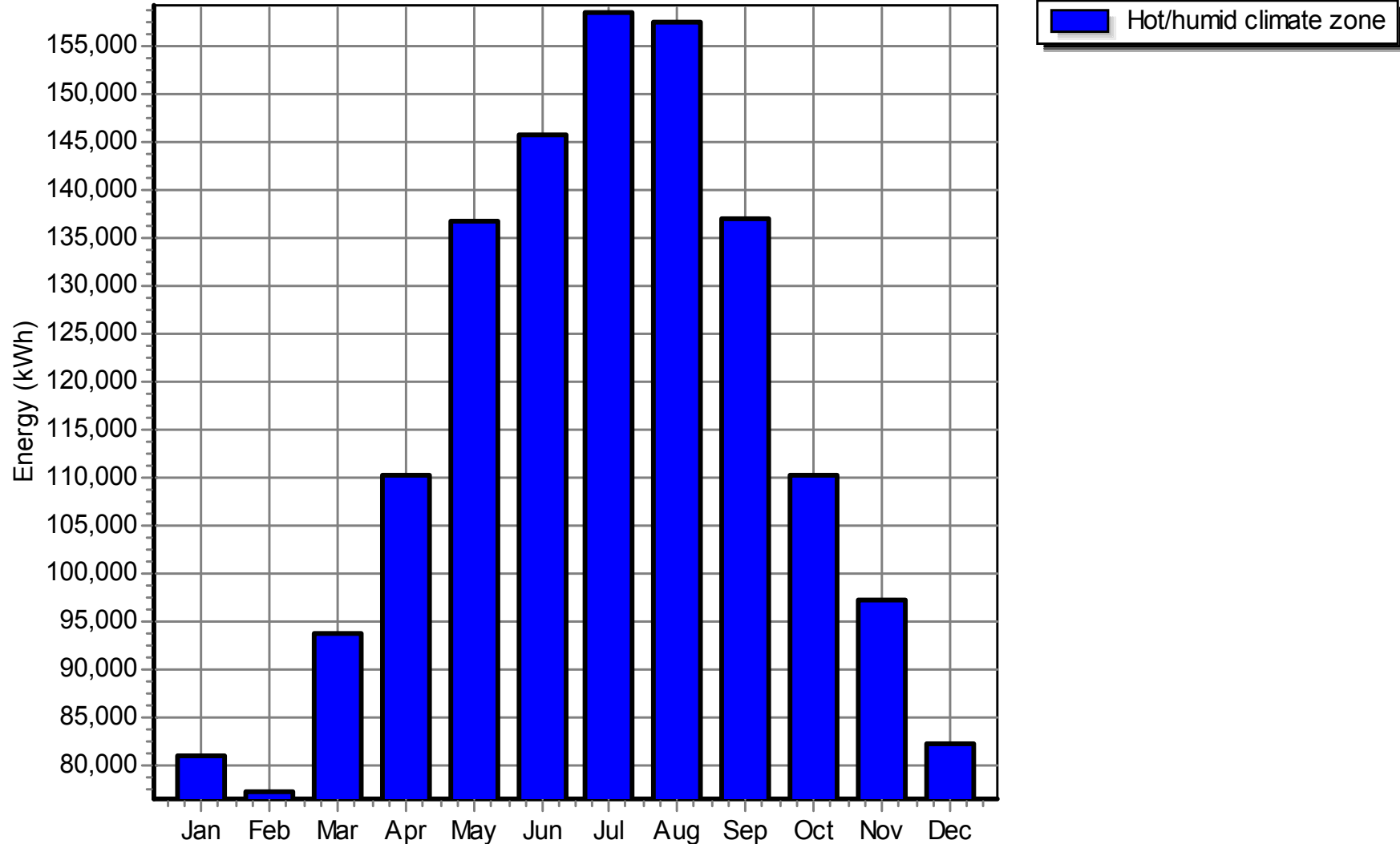
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



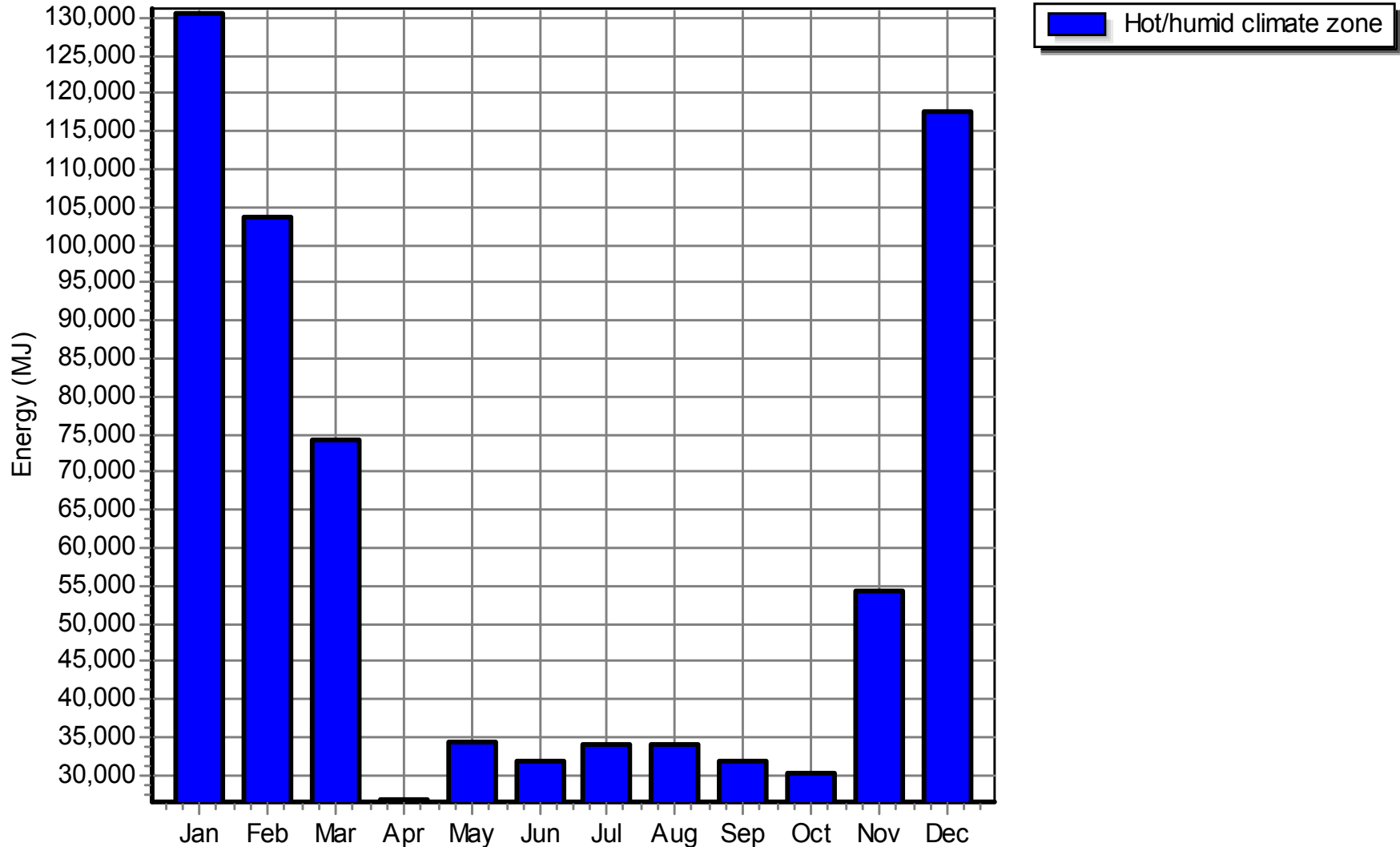
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



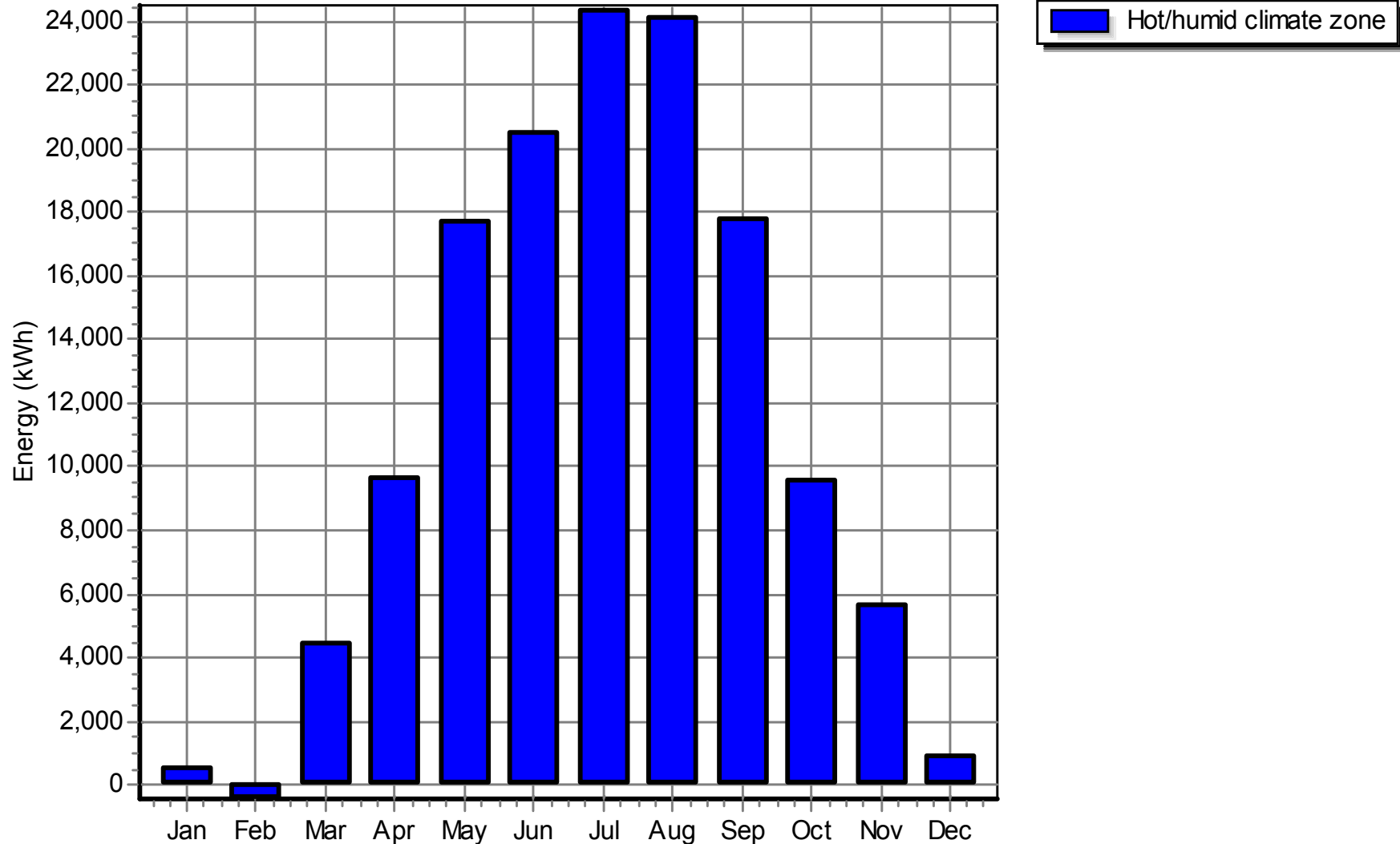
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



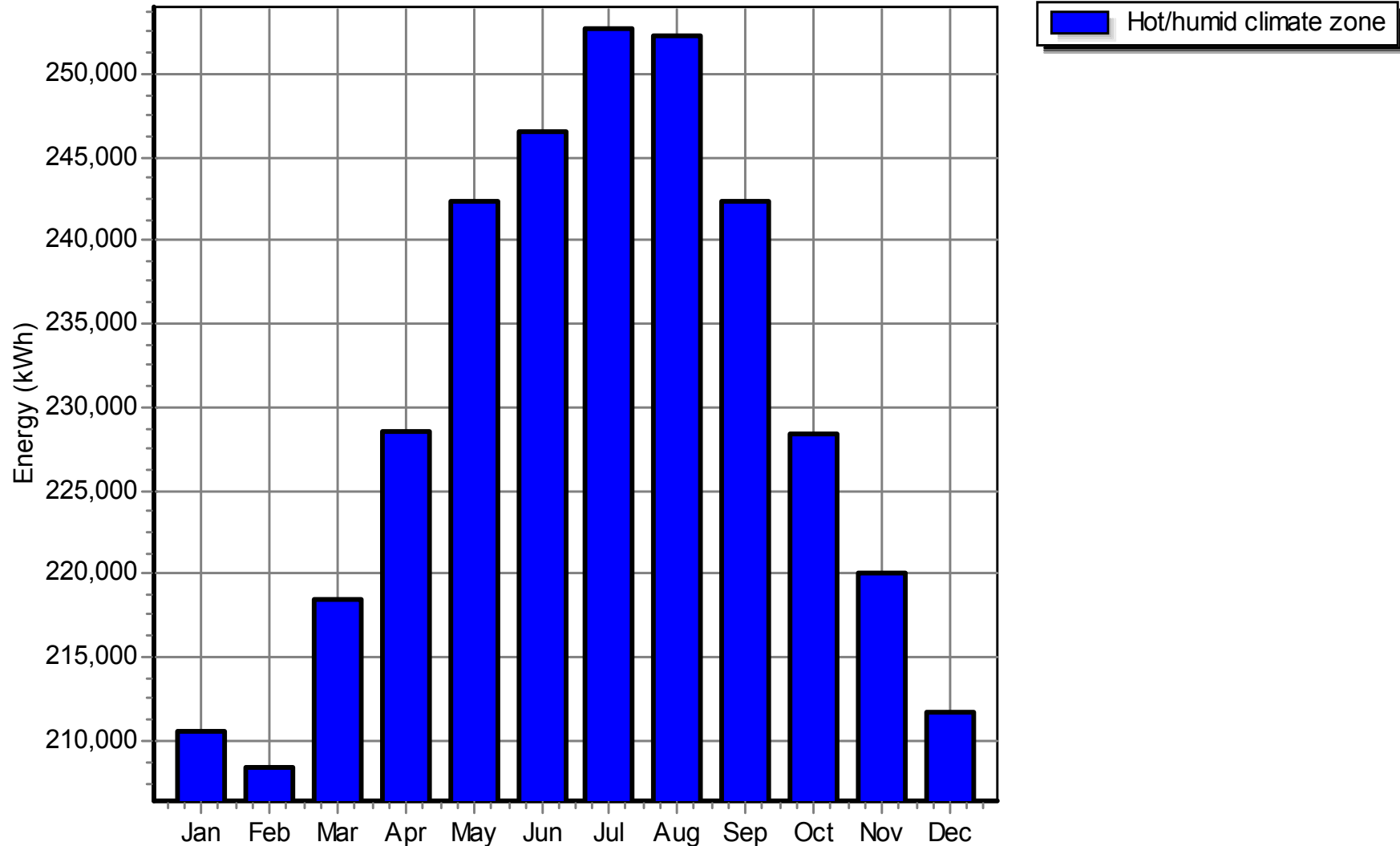
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Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

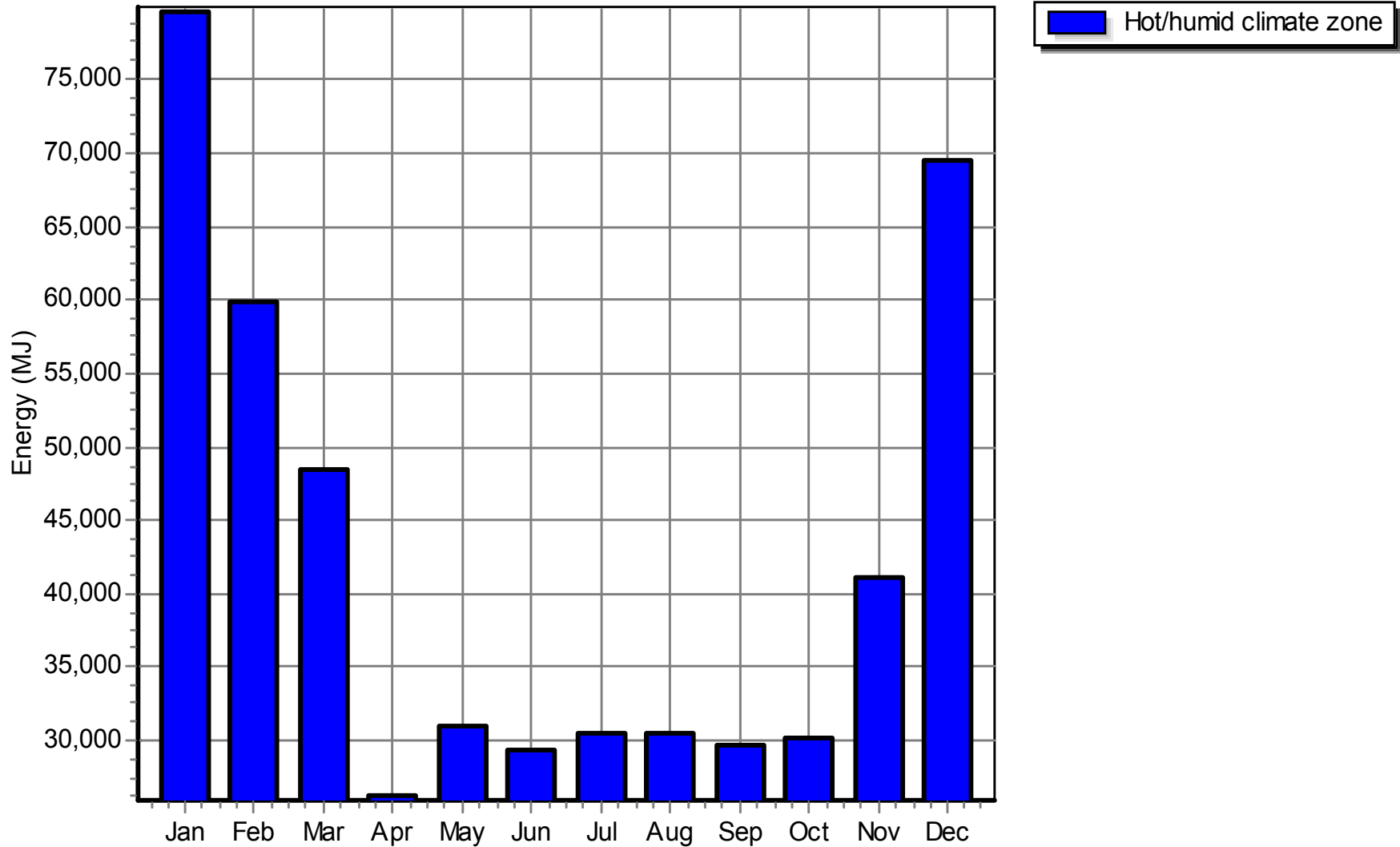


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2/1/2010

Room TYPE: Computer Room Room NAME: Computer Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



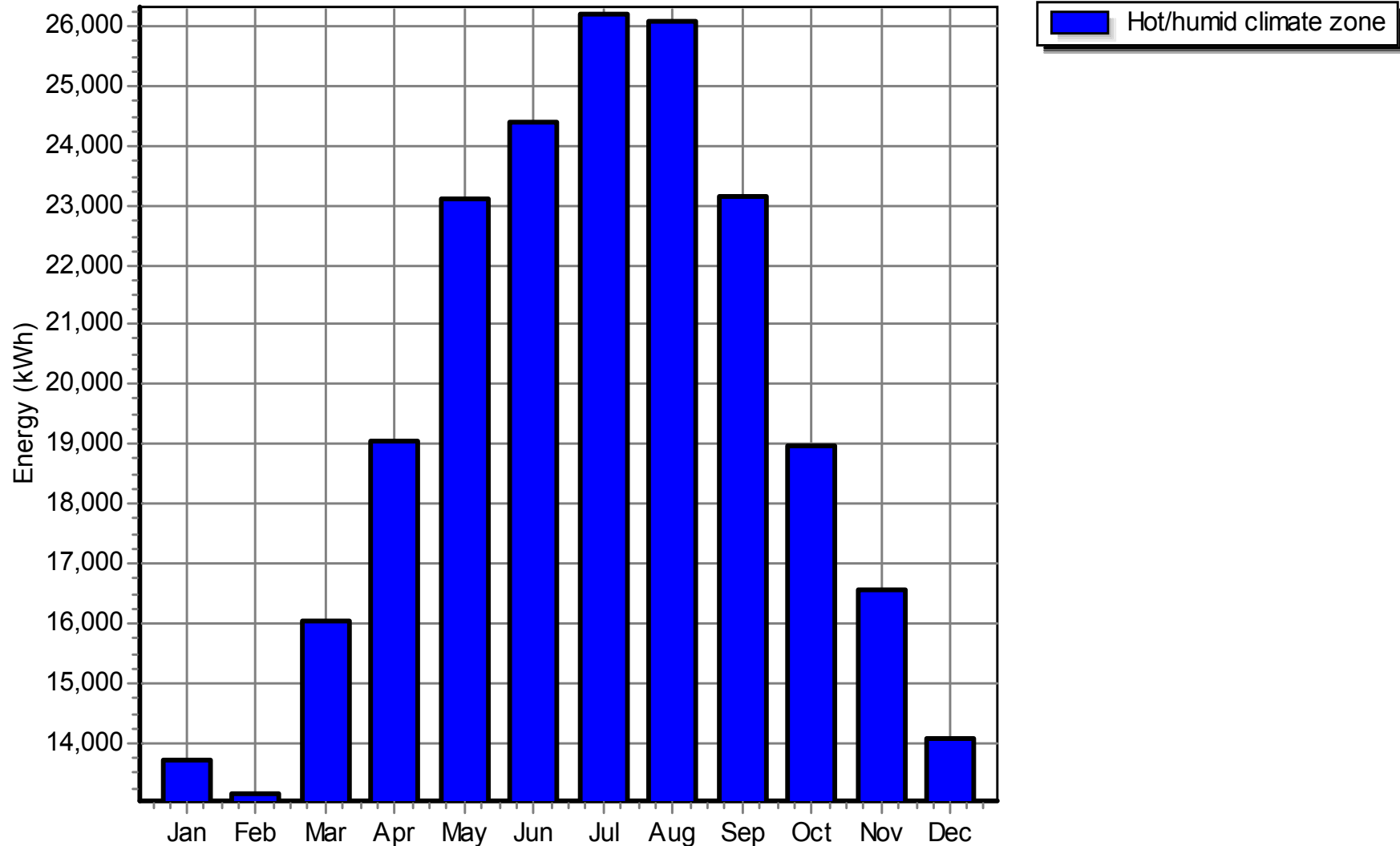
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2/1/2010

Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual Cooling Energy vs. Month By Simulation



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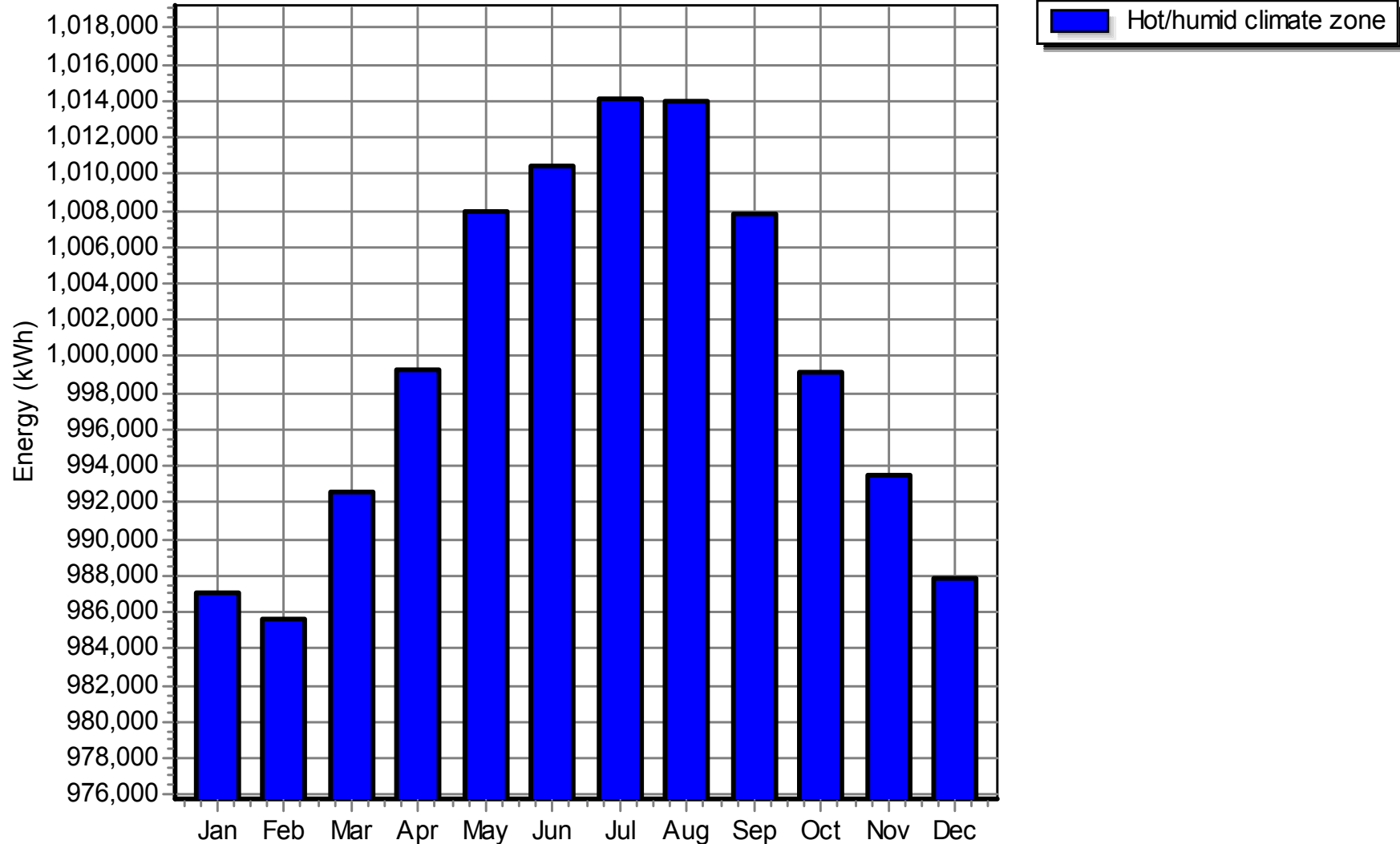
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2/1/2010

Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



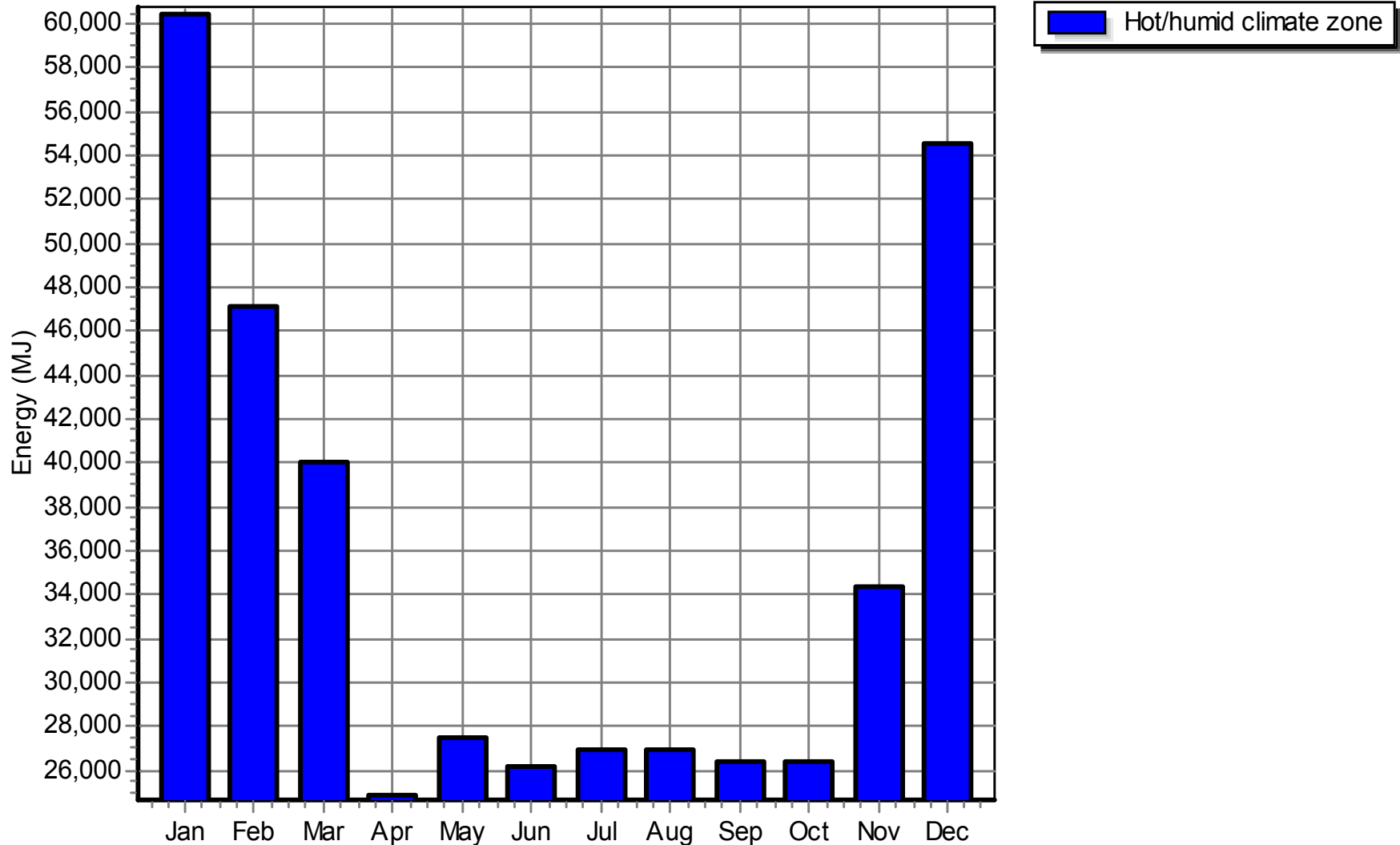
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual HVAC Fuel Energy vs. Month By Simulation



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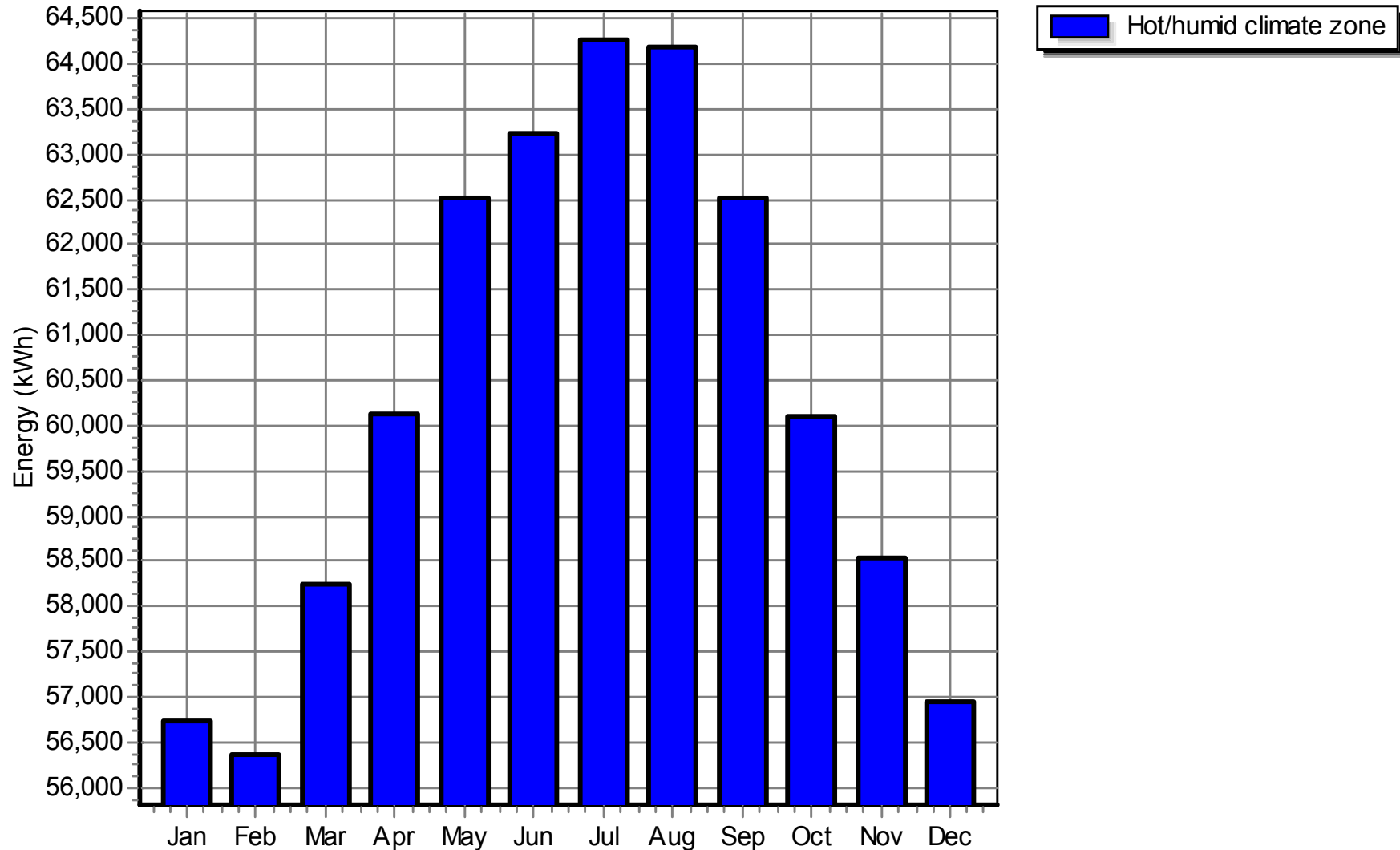
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2/1/2010

Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

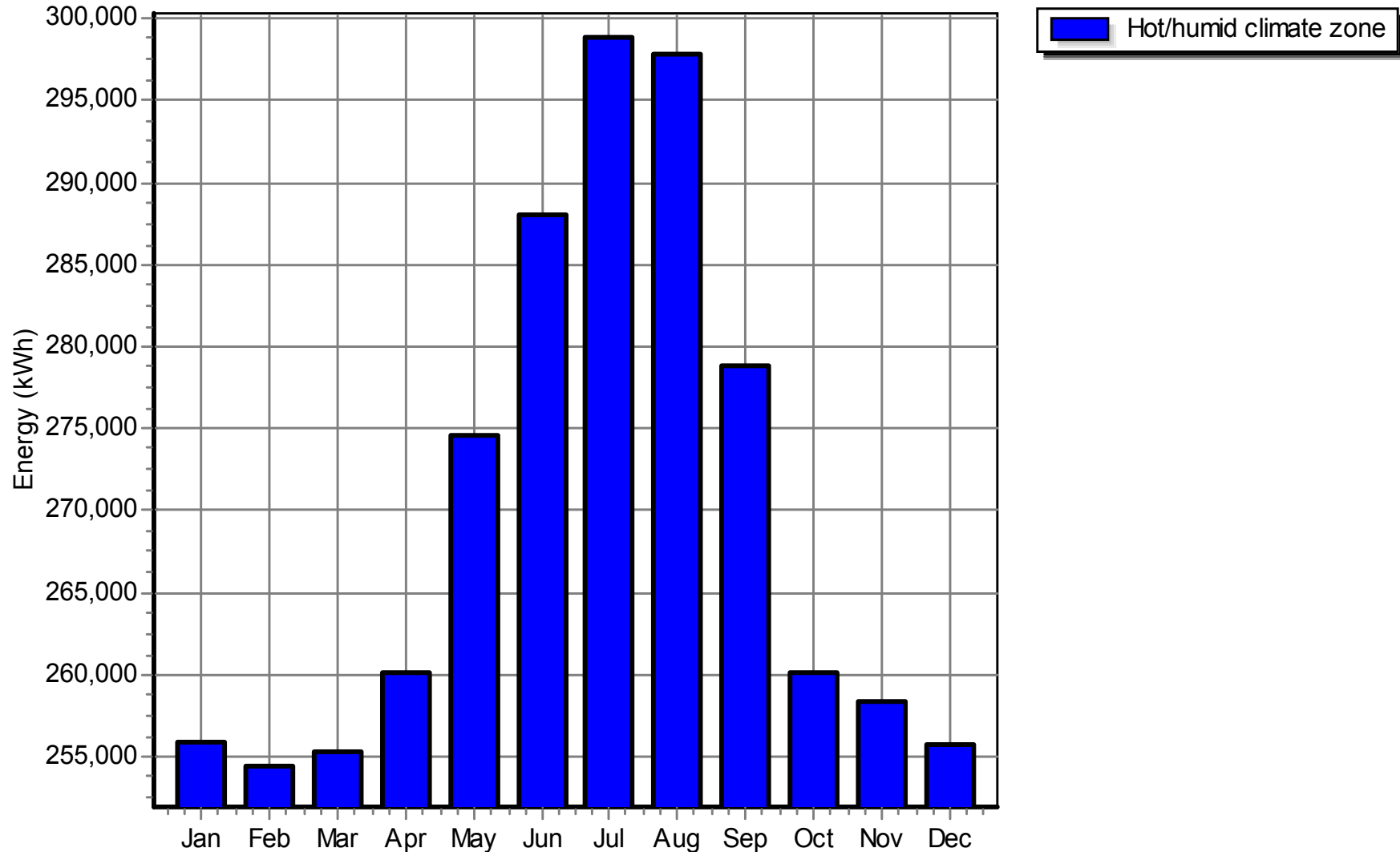


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

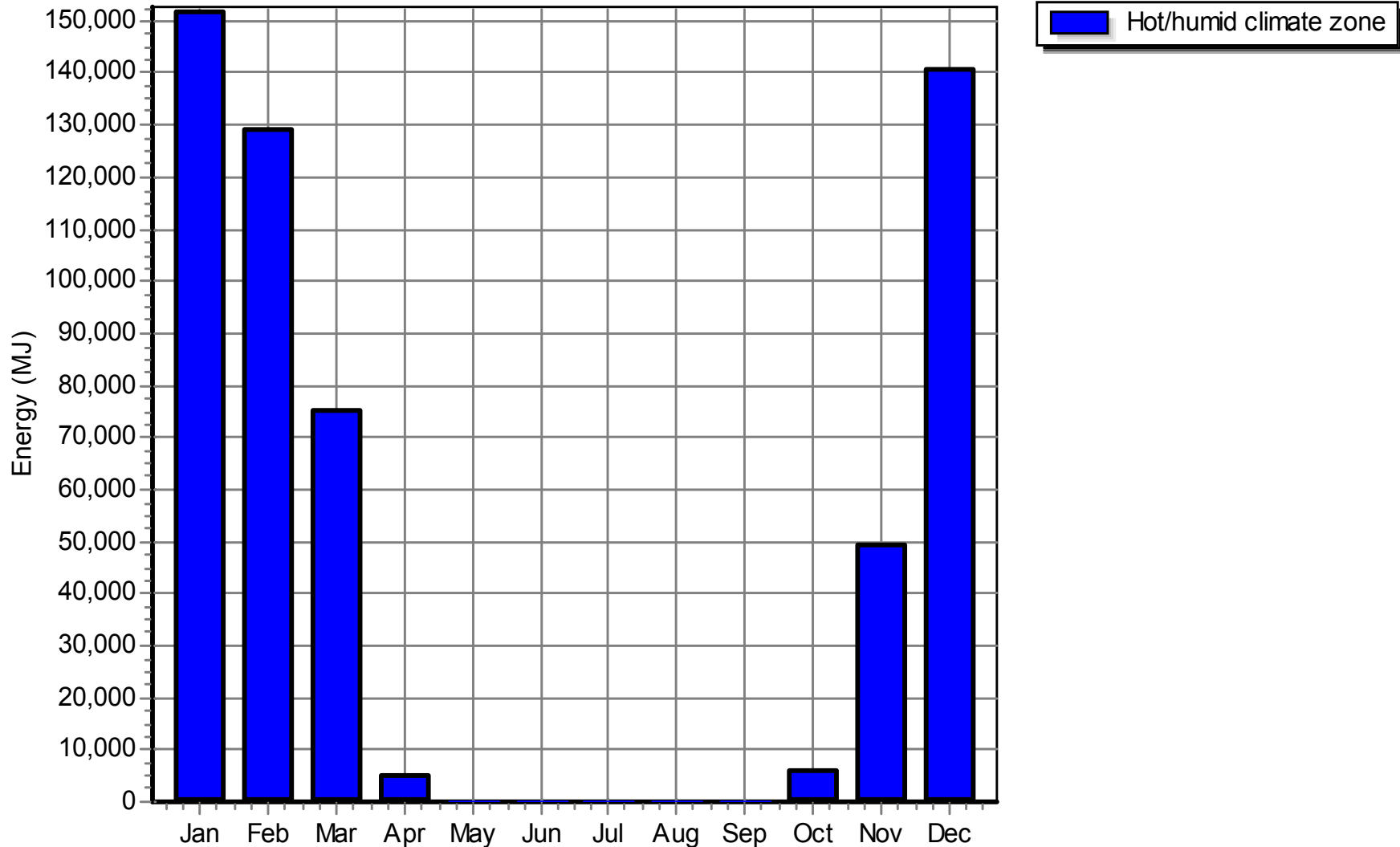


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

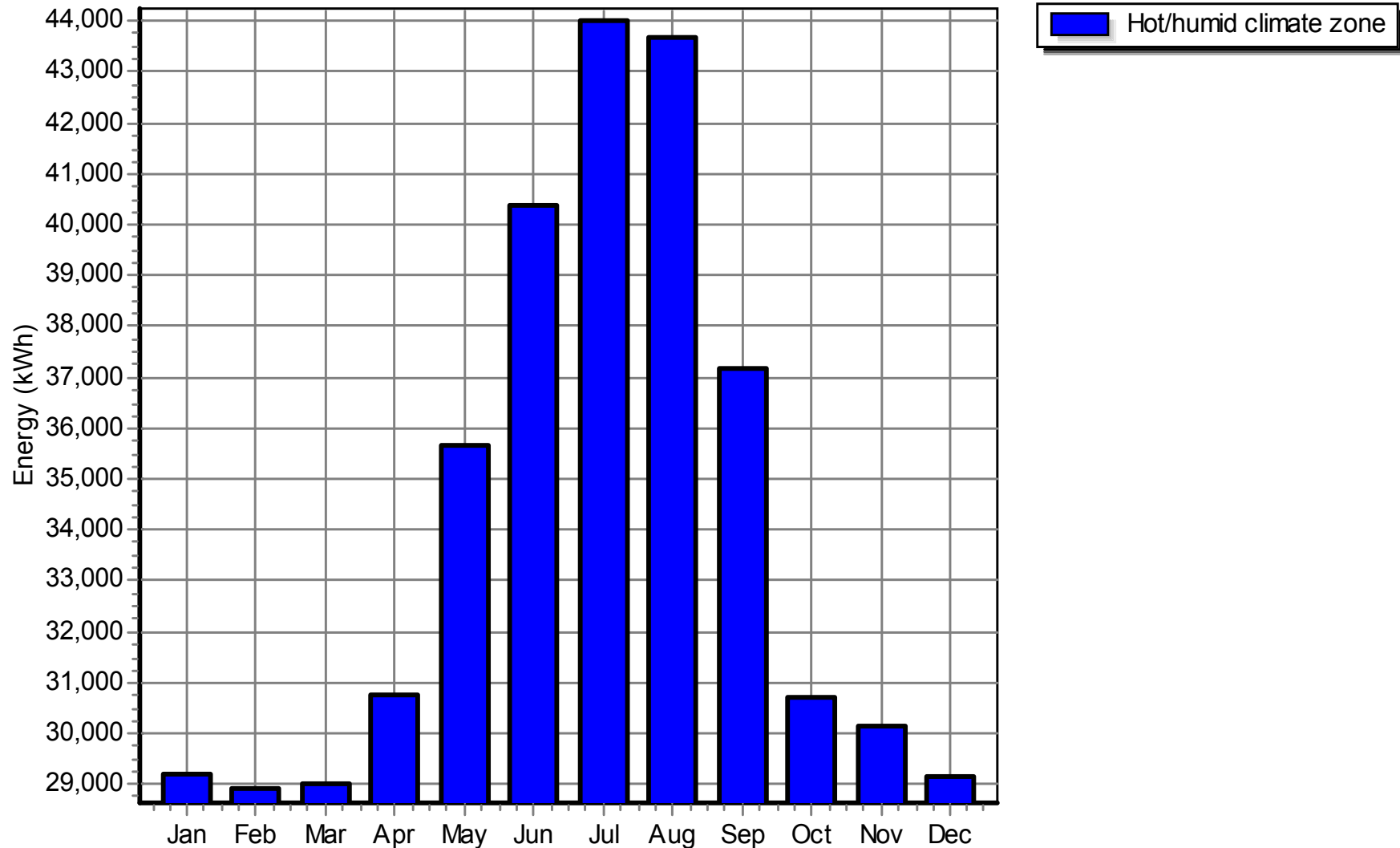


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2/1/2010

Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

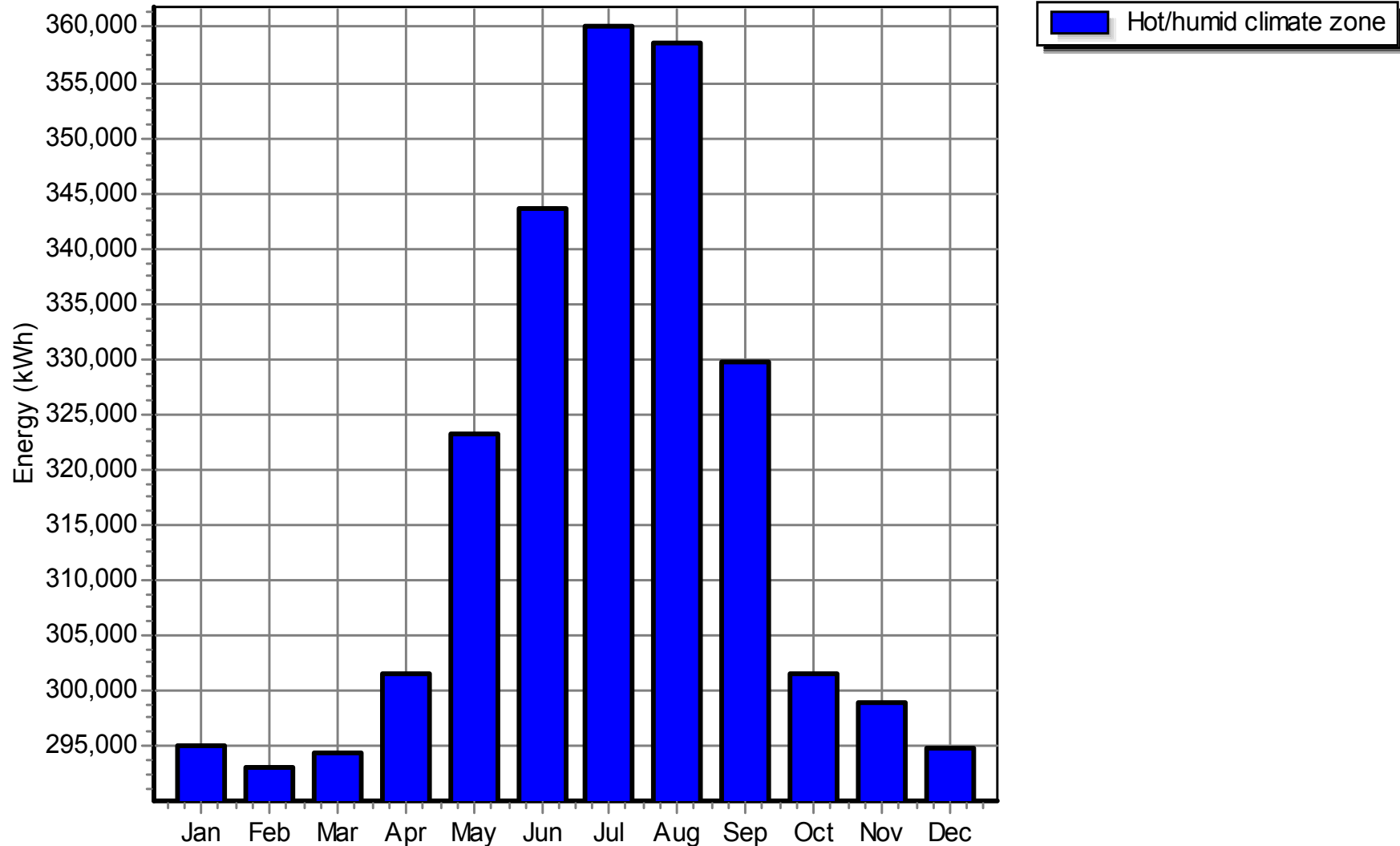


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Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

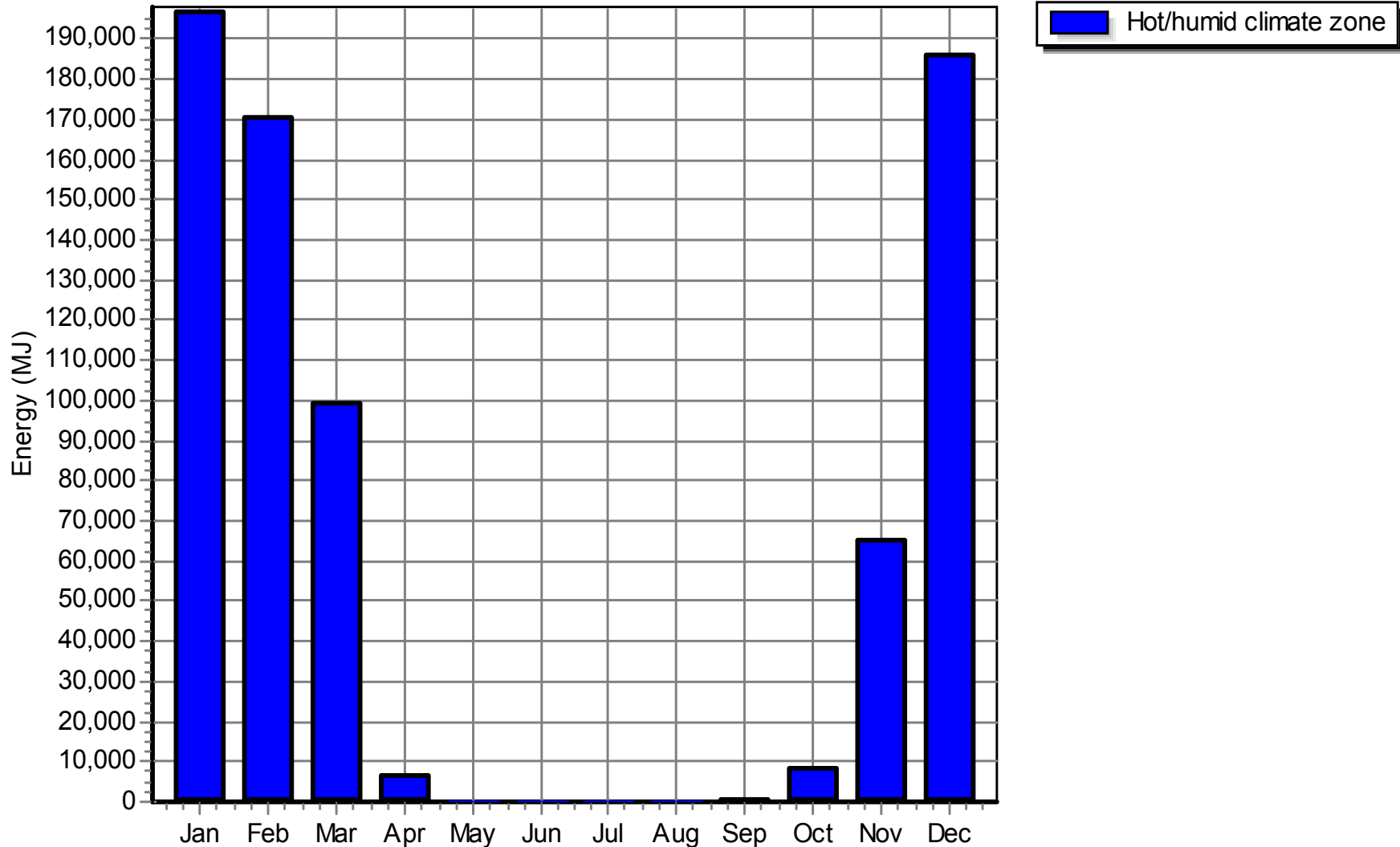


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2/1/2010

Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



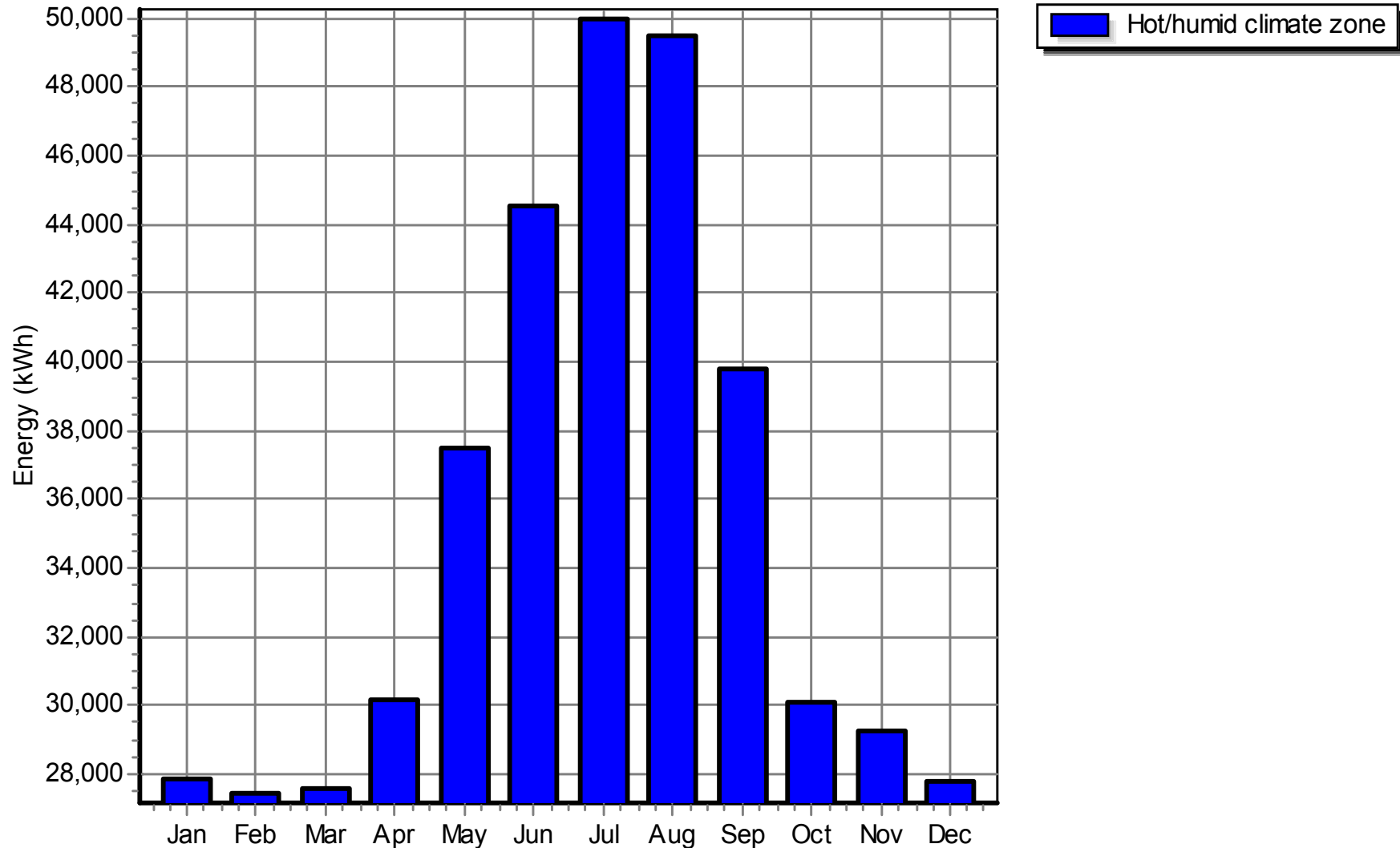
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CleanCalc
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2/1/2010

Room TYPE: UPW Plant

Room NAME: UPW Plant

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

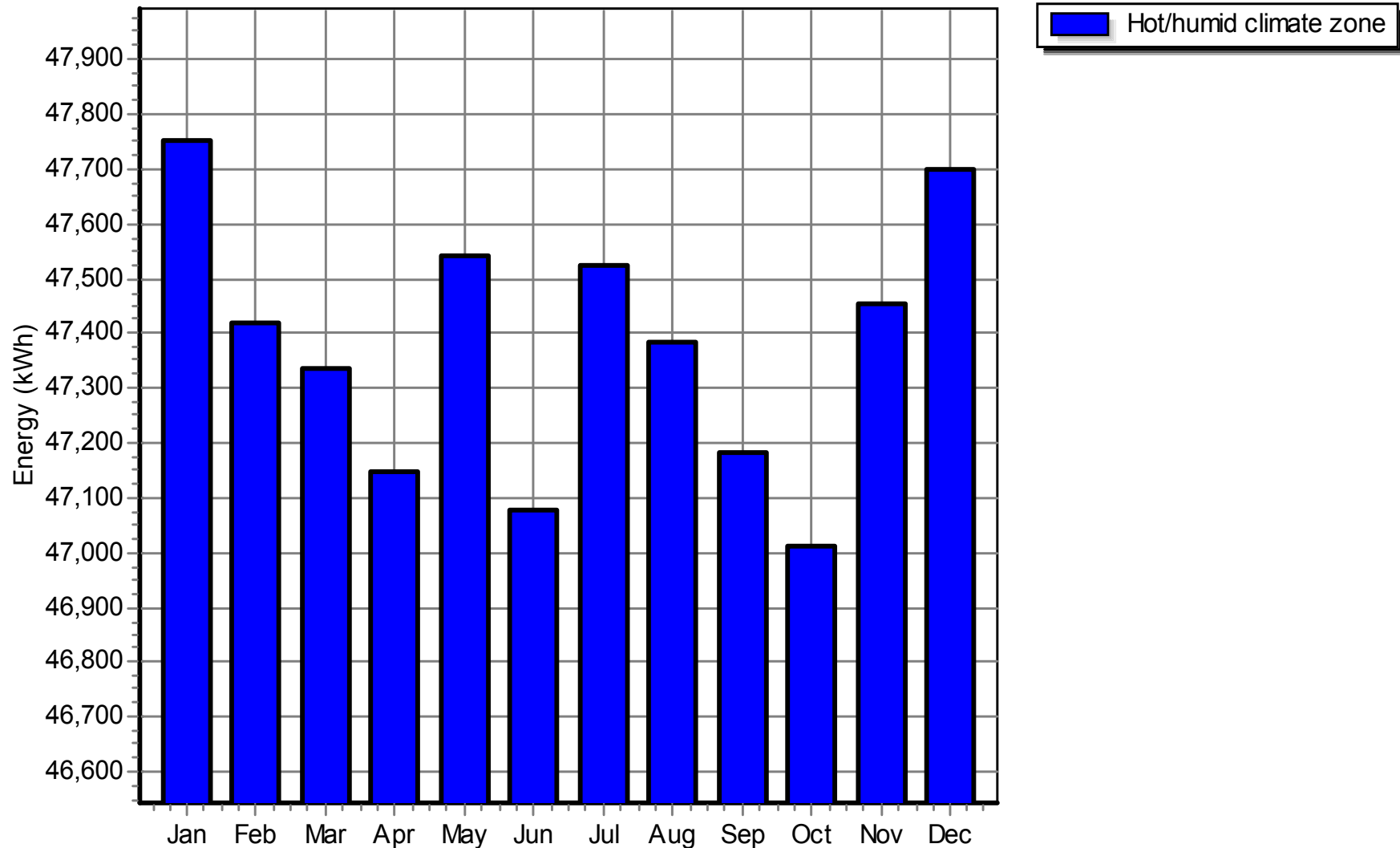


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CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



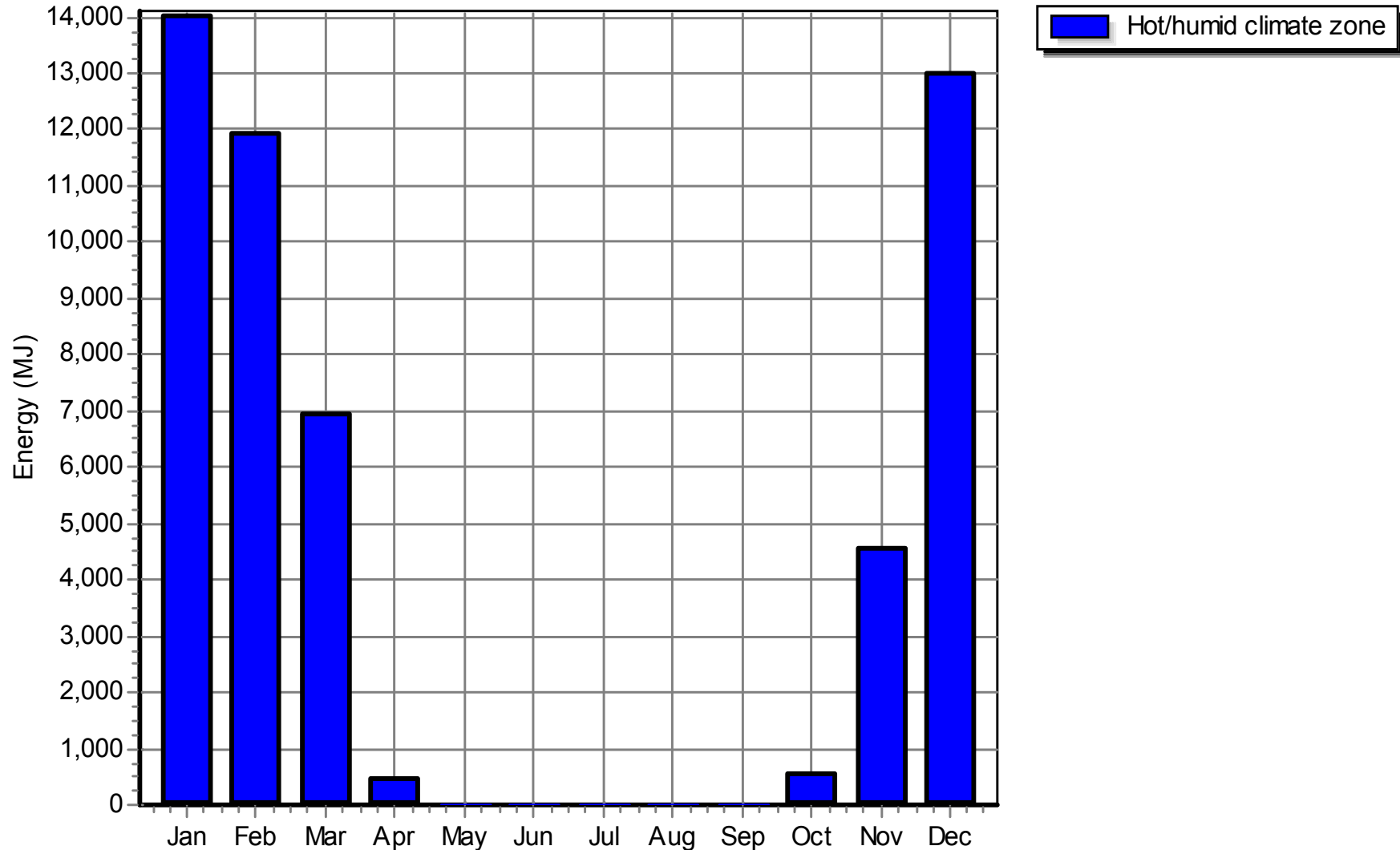
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CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Boiler Room

Room NAME: Boiler Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

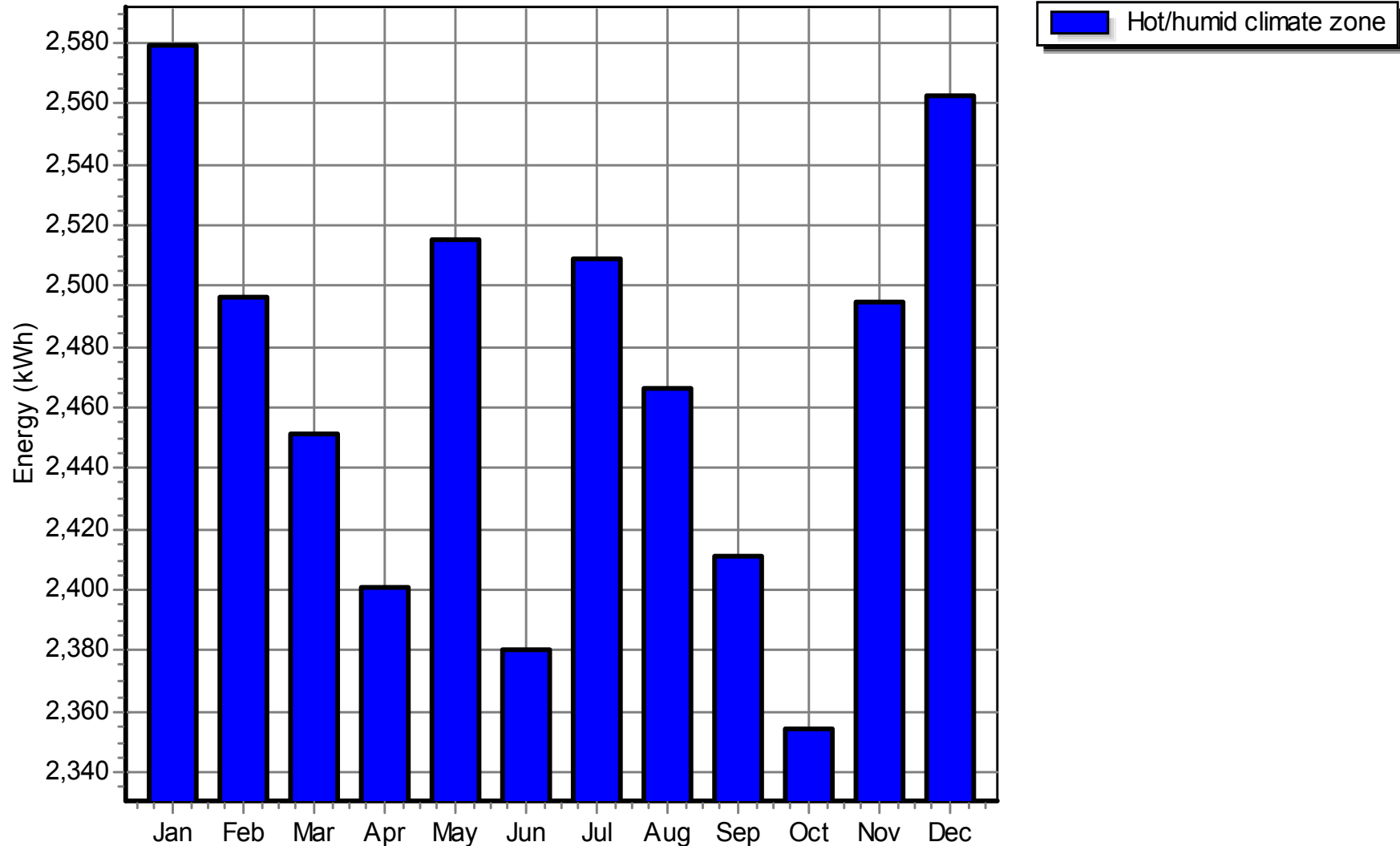


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Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



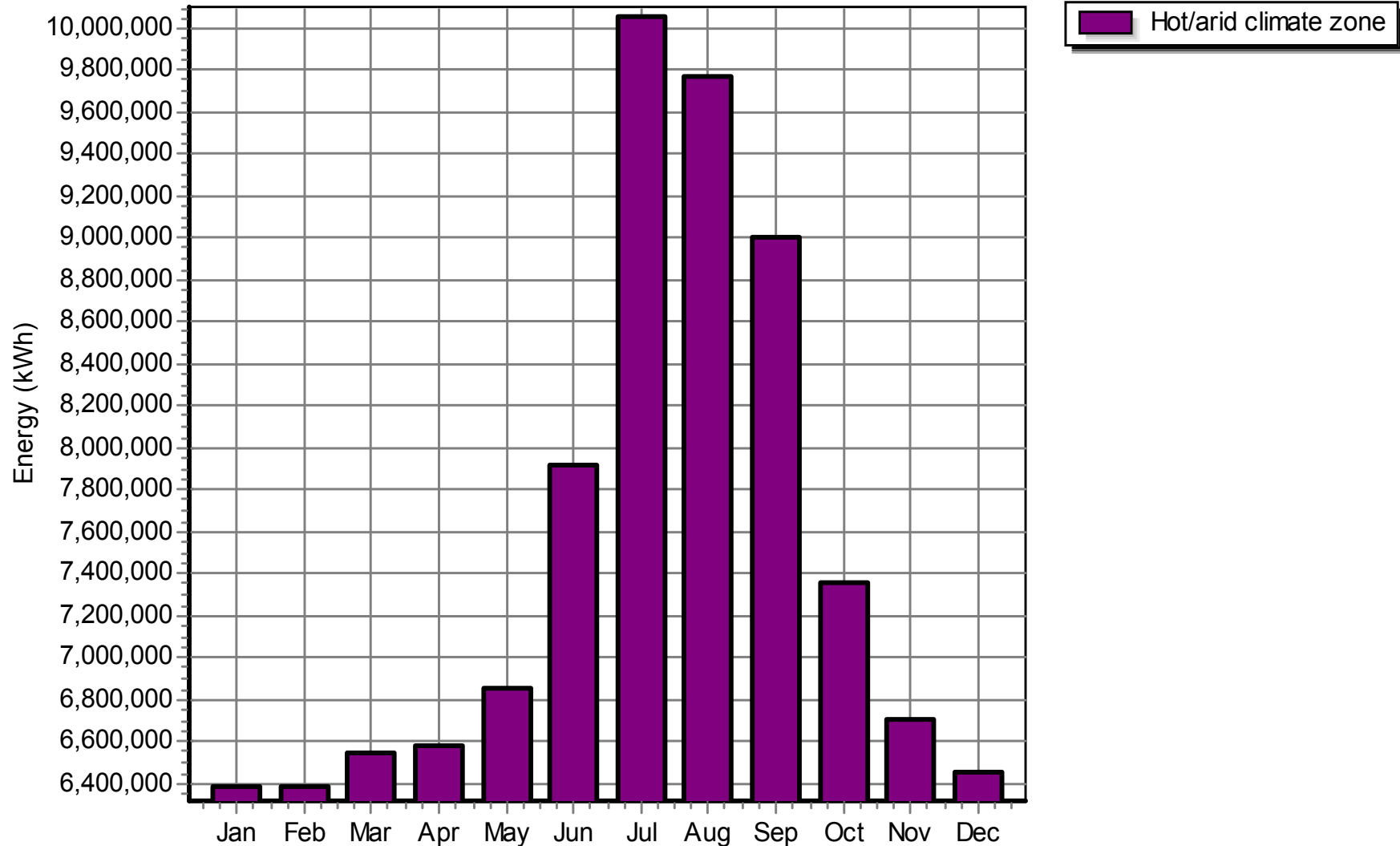
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Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



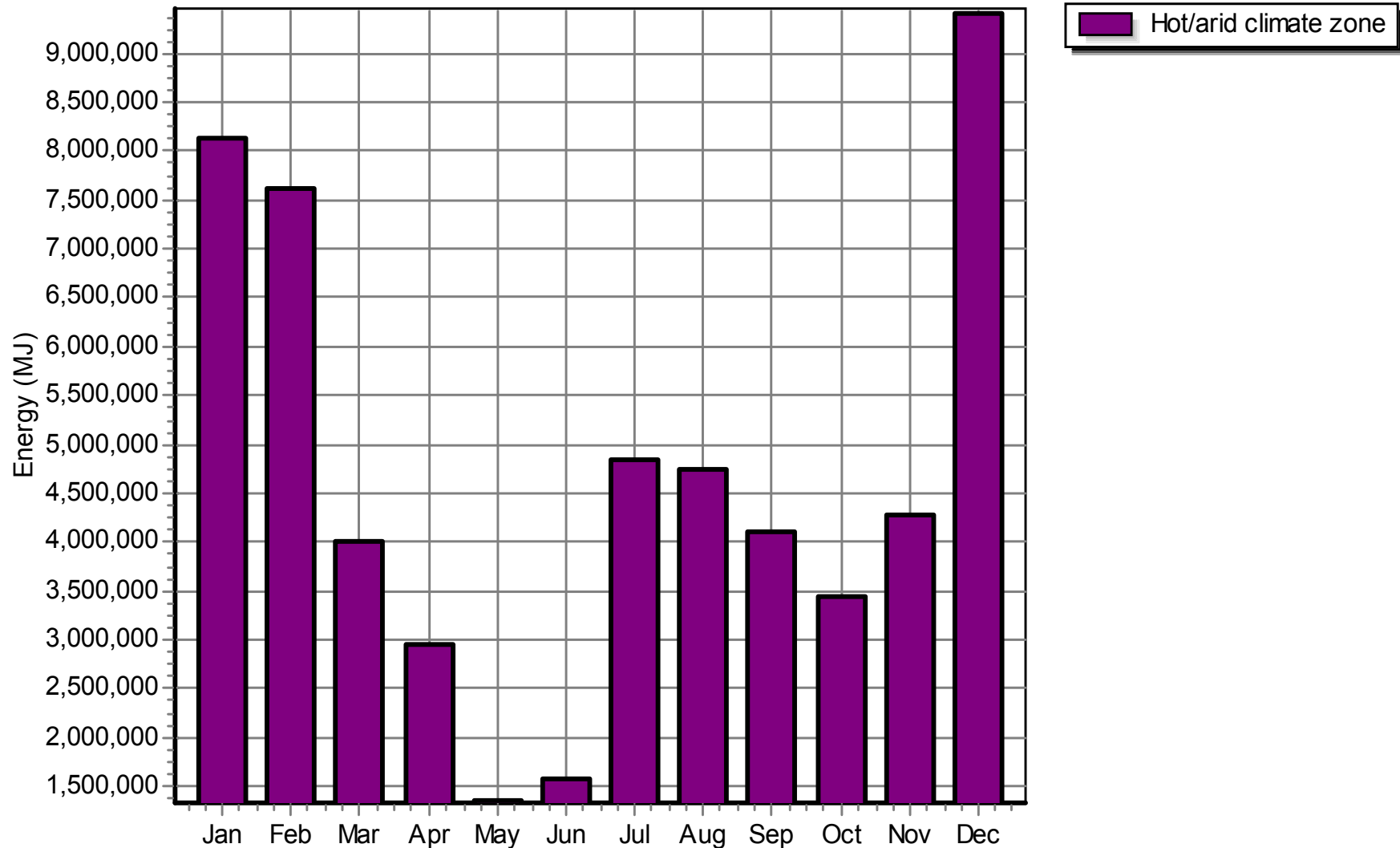
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CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



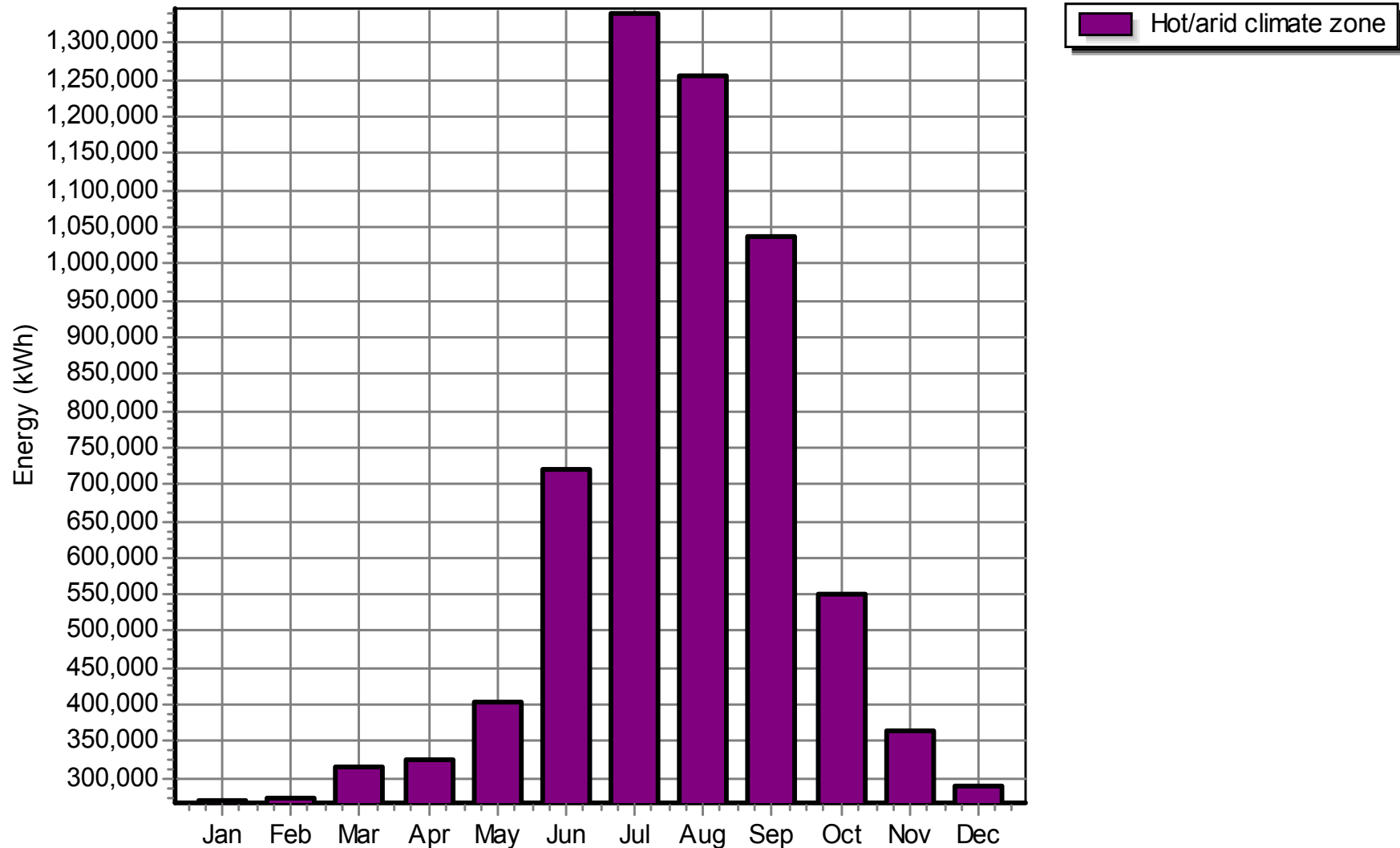
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Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



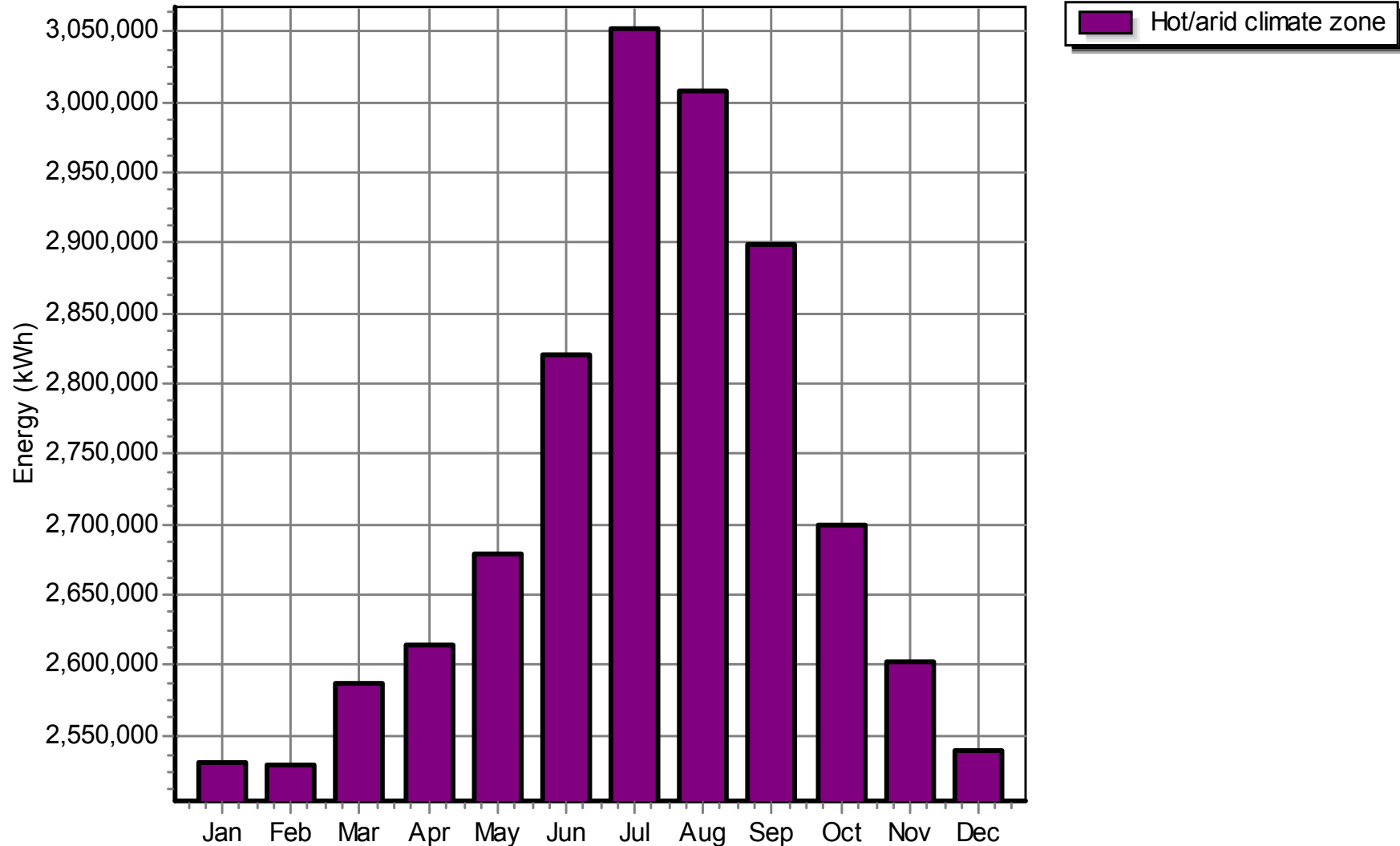
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Clean Room Energy Simulation Analysis
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2/1/2010

Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



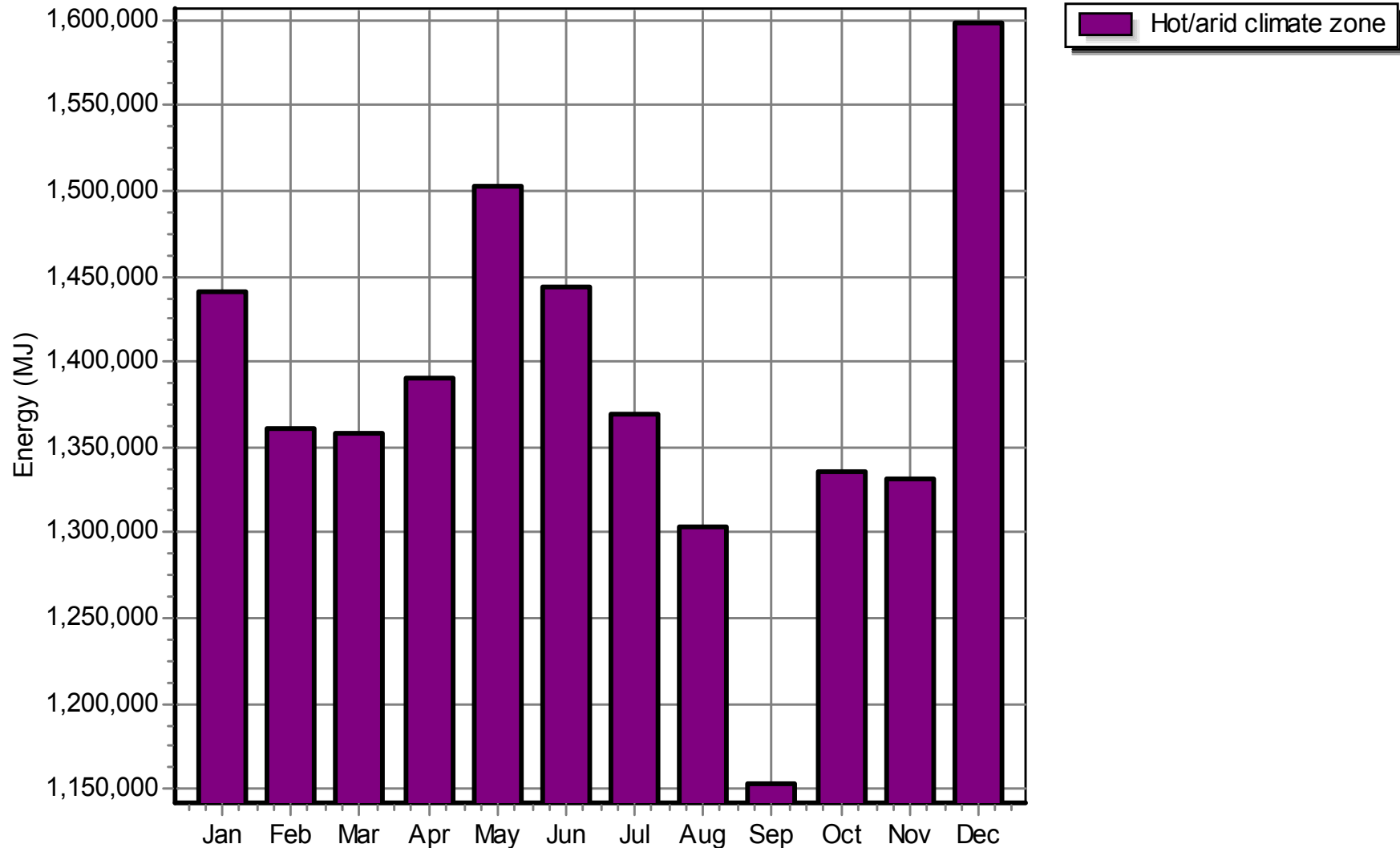
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2/1/2010

Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



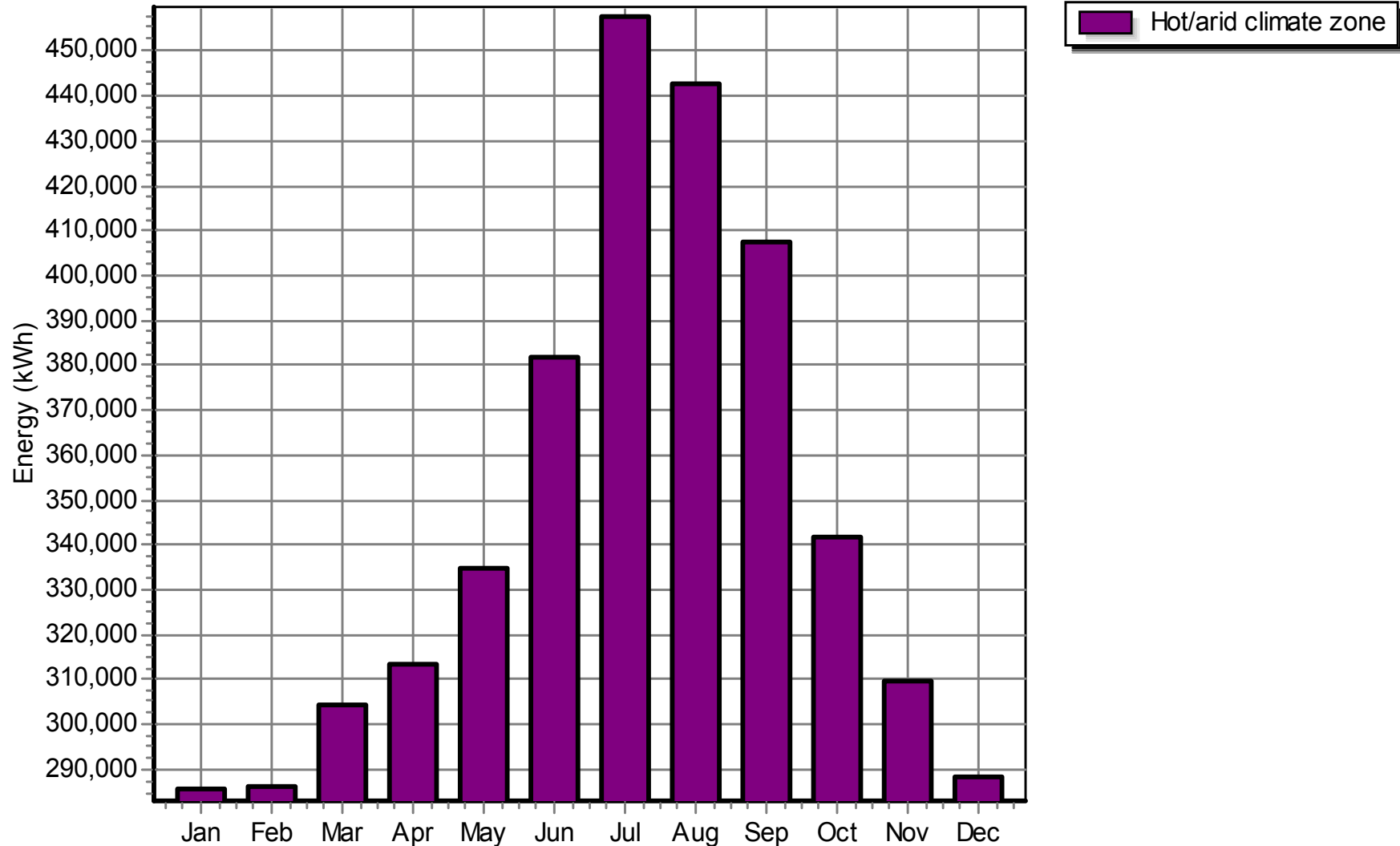
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CleanCalc
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2/1/2010

Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



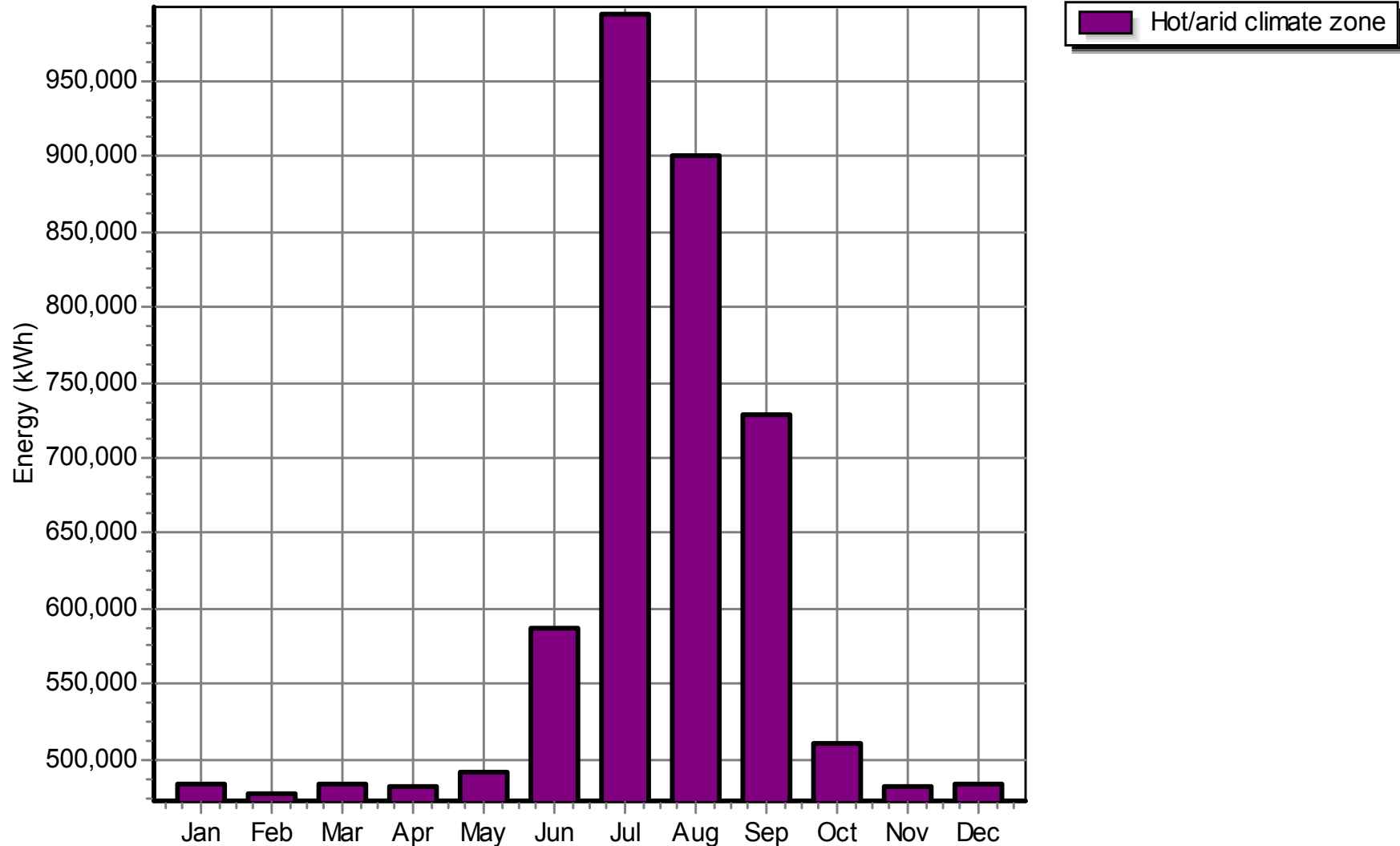
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



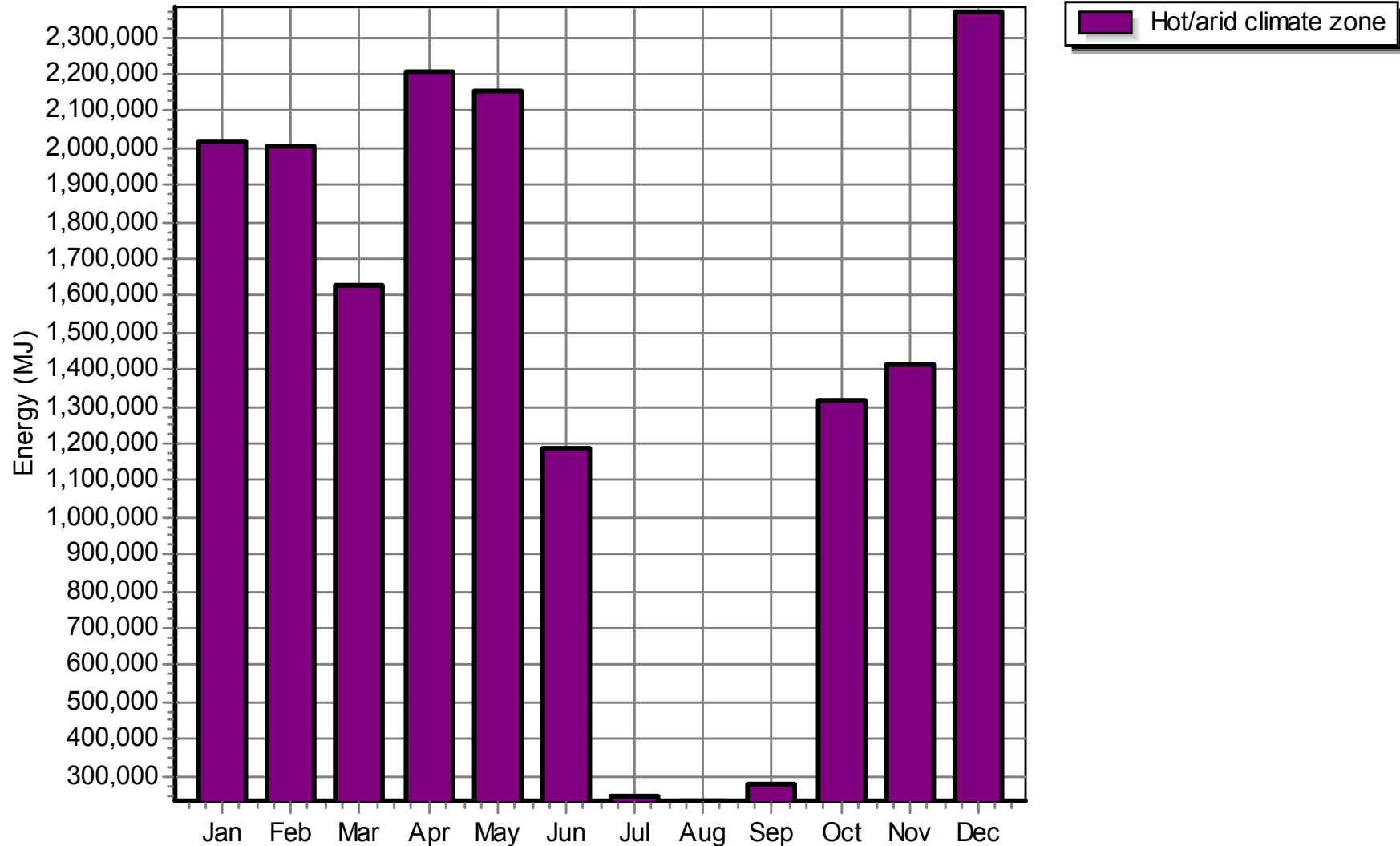
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



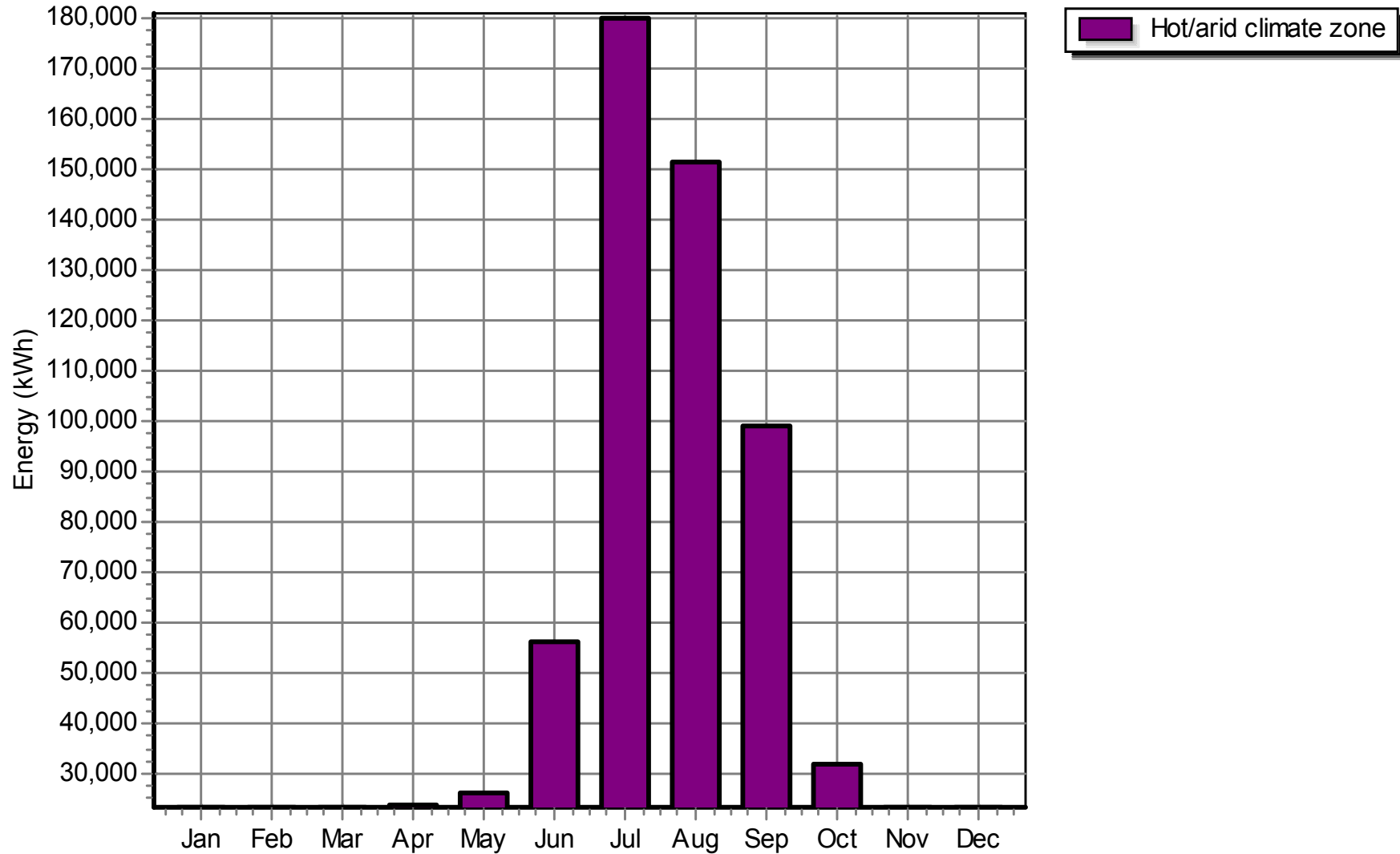
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Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



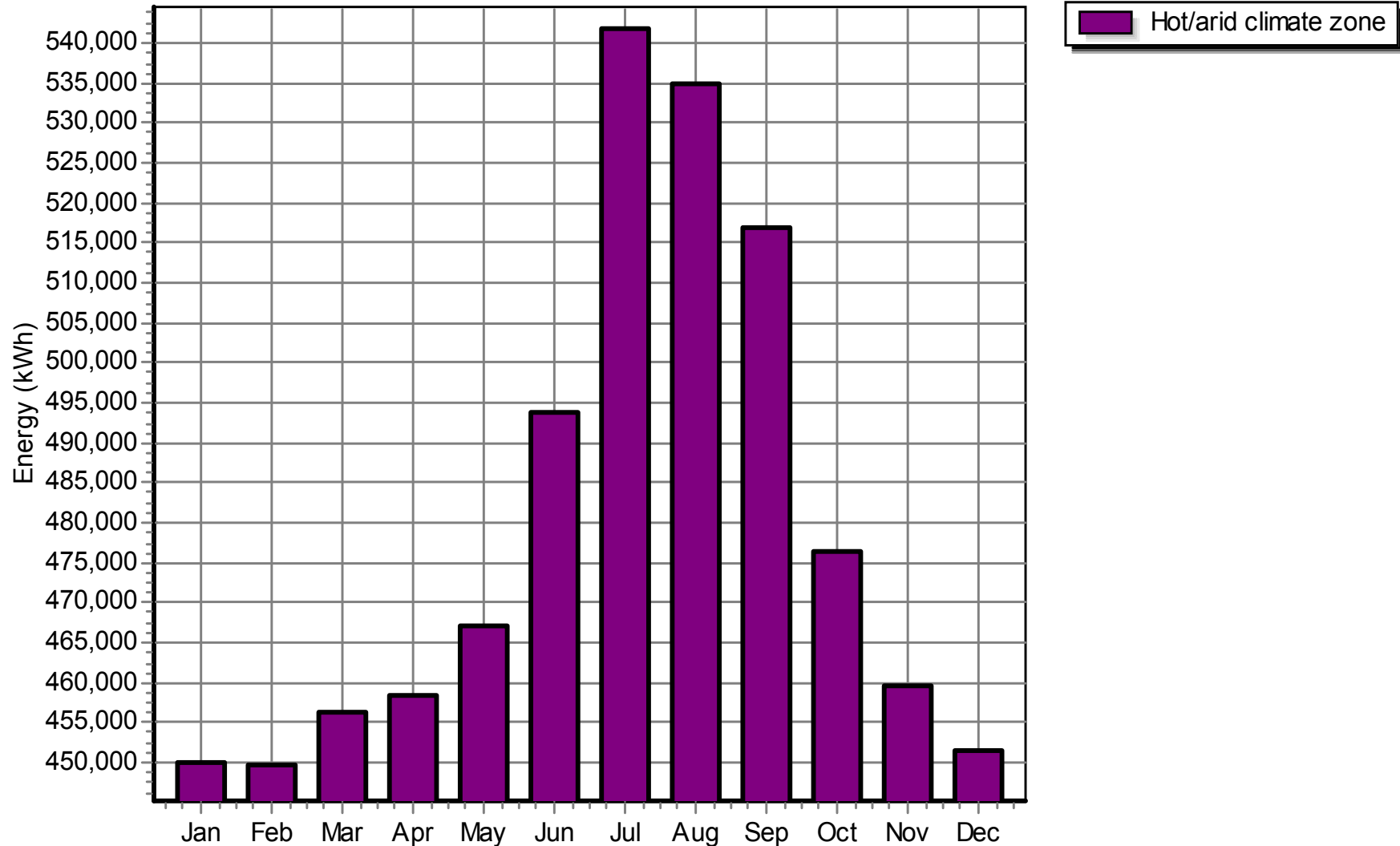
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Room TYPE: Clean Support

Room NAME: Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



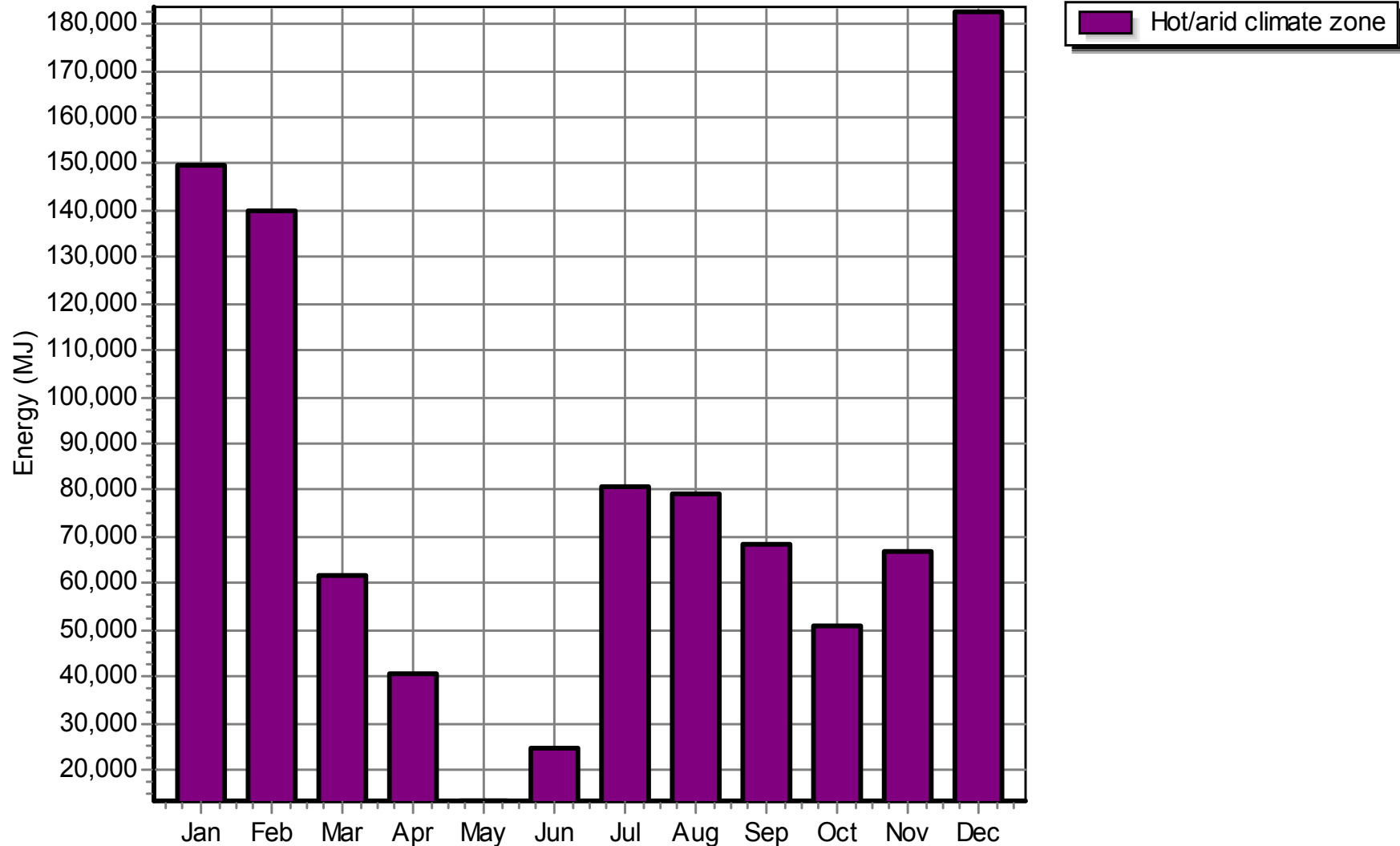
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Room NAME: Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



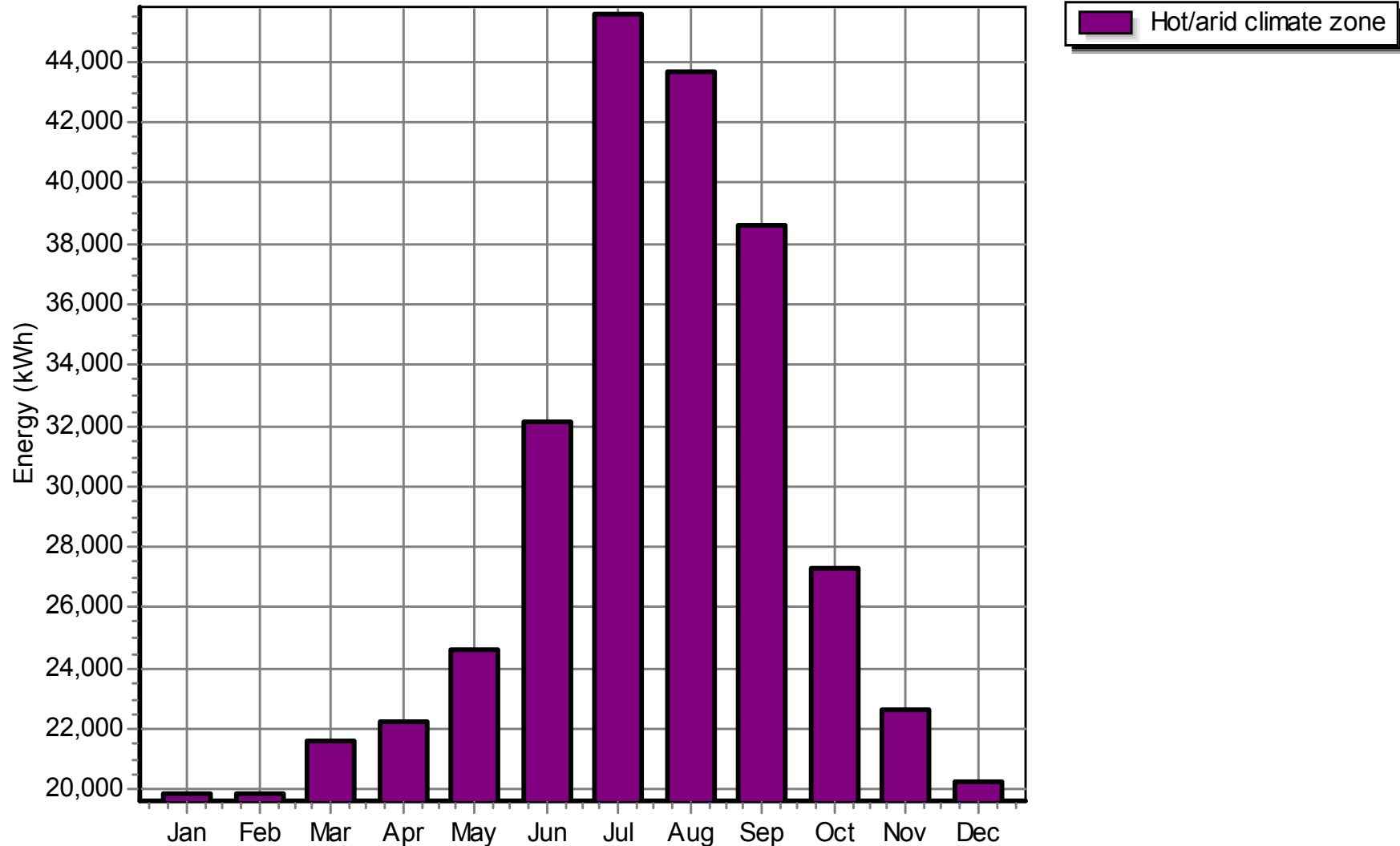
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Room NAME: Clean Support

Total Annual Cooling Energy vs. Month By Simulation



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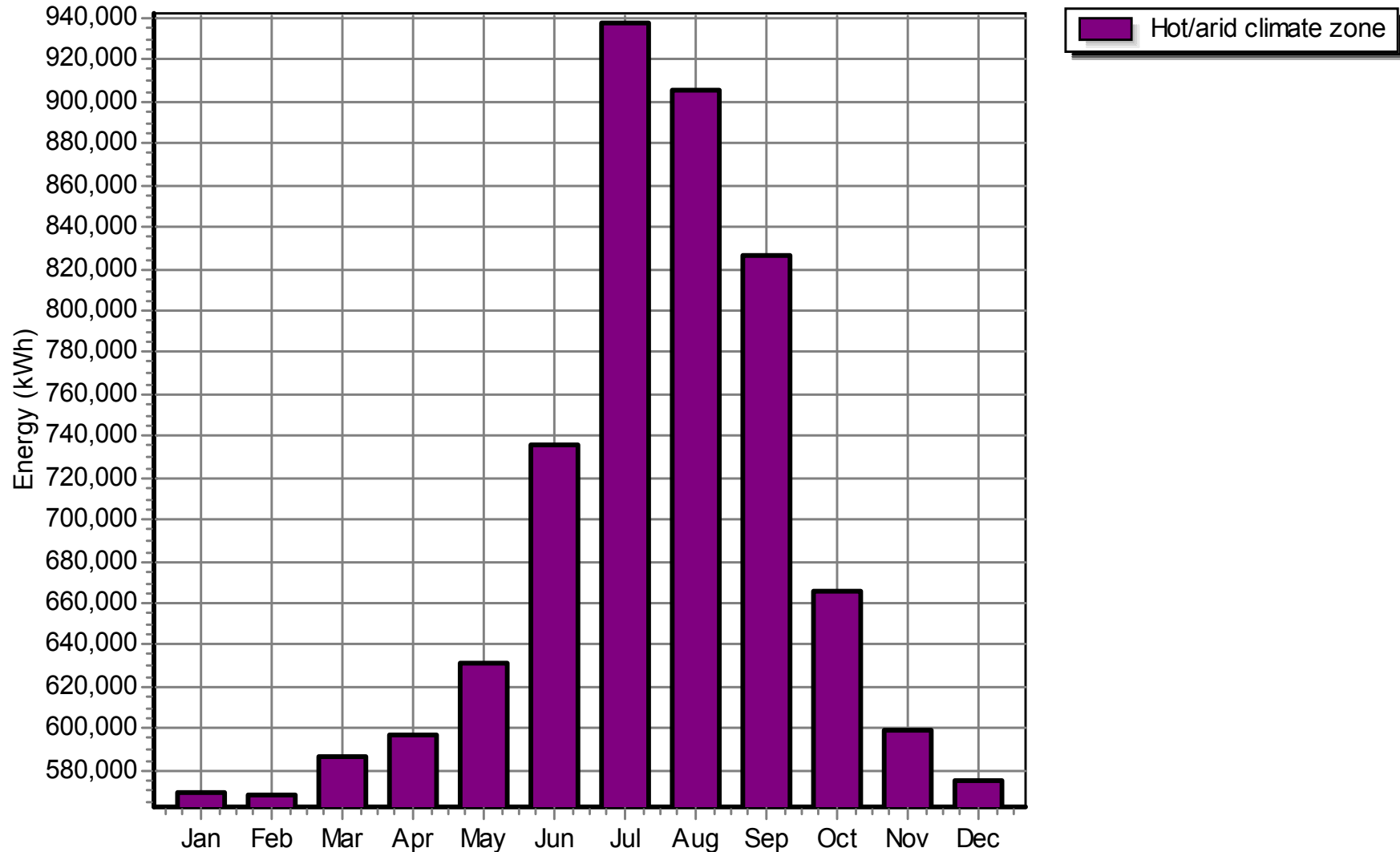
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Version 2.9.11
2/1/2010

Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



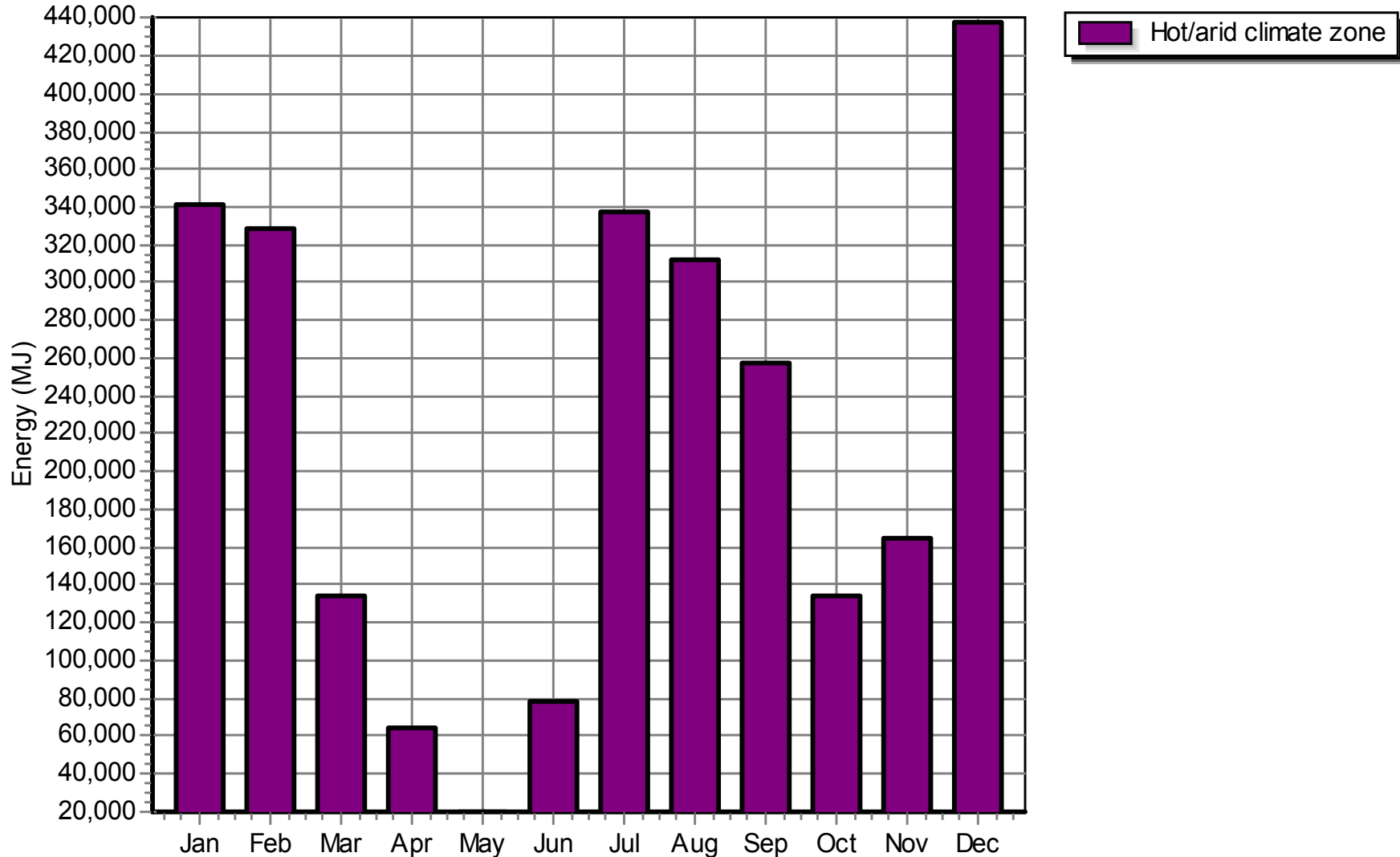
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2/1/2010

Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



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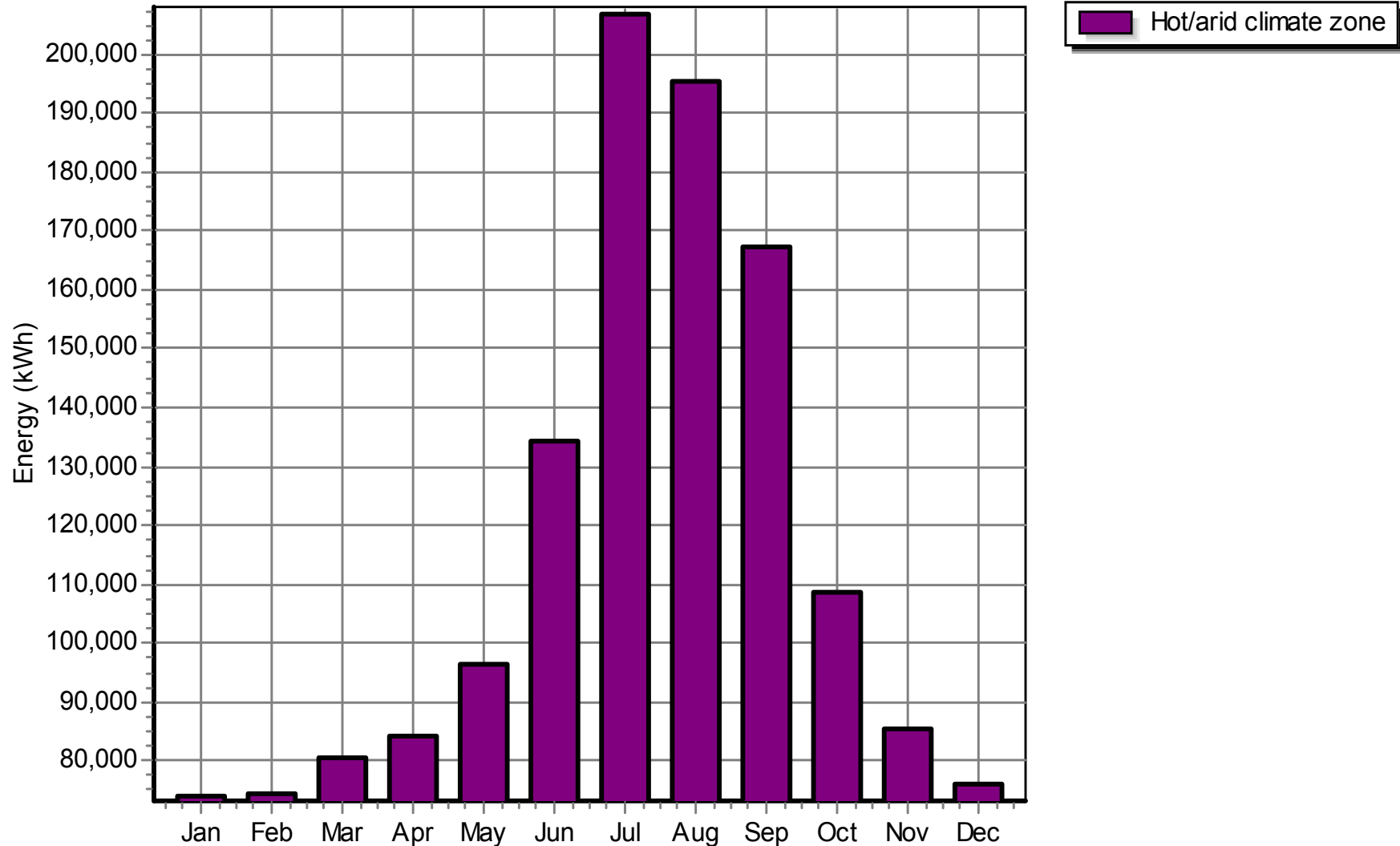
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Email: sales@handsdownsoftware.com

CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



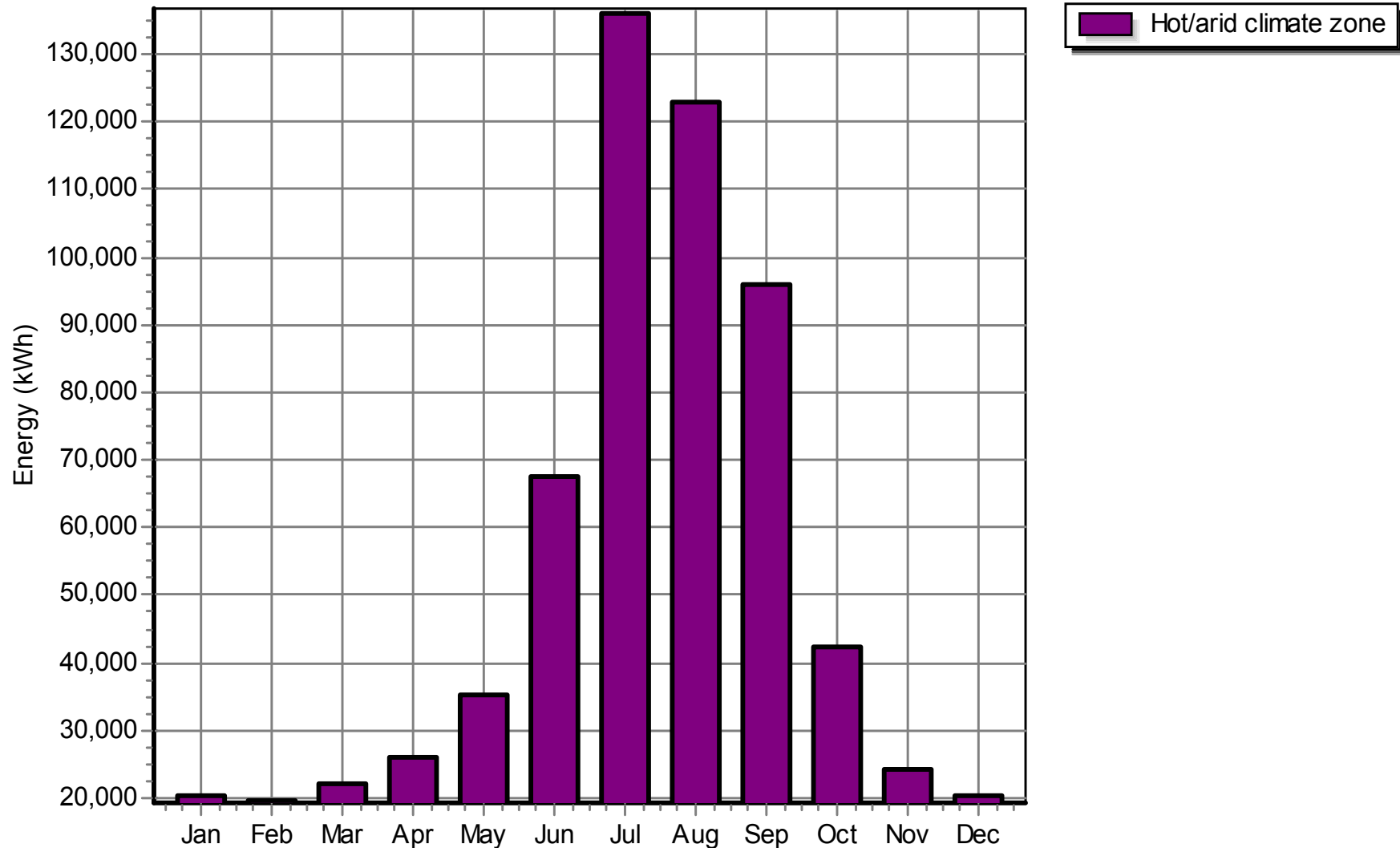
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CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



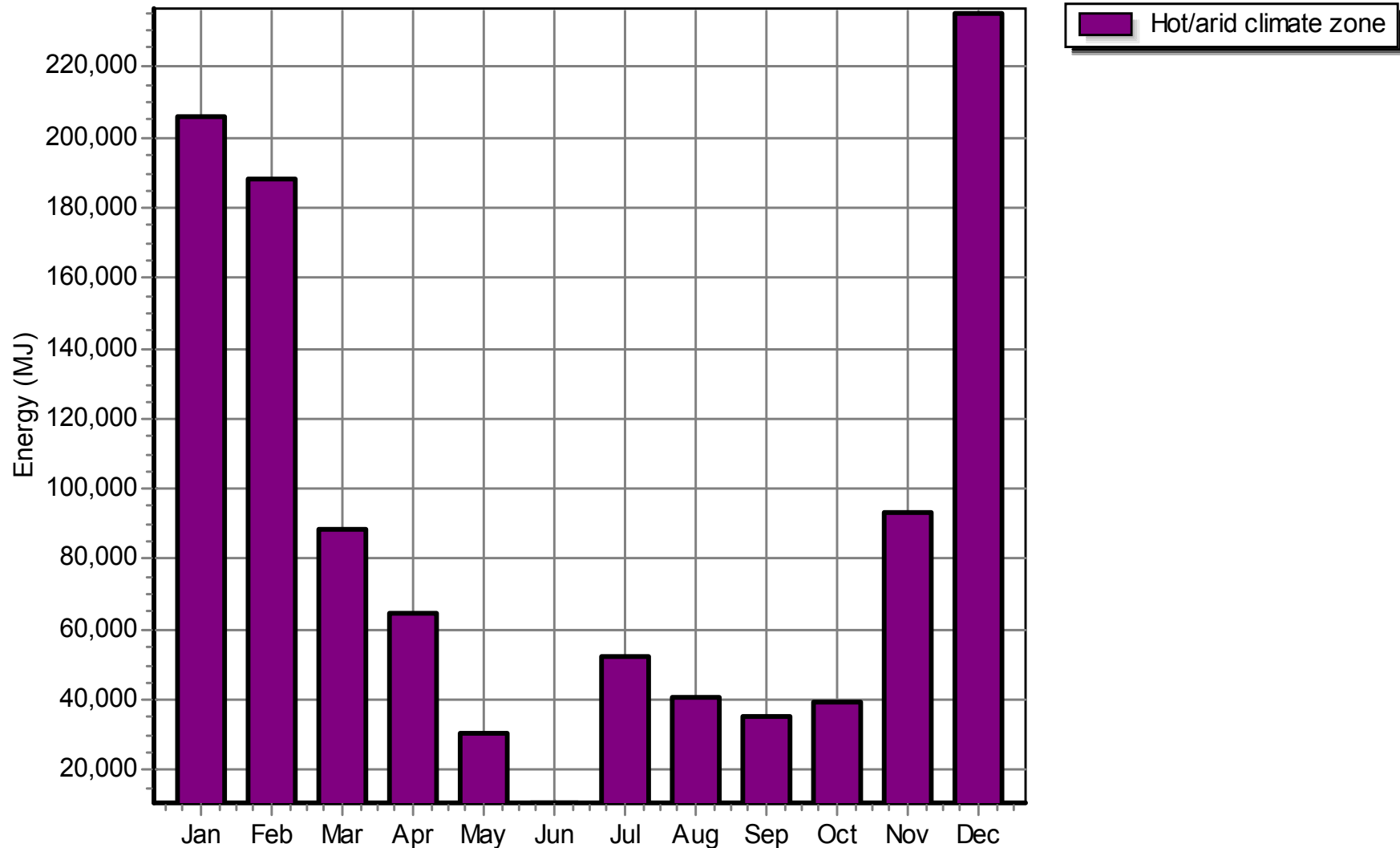
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



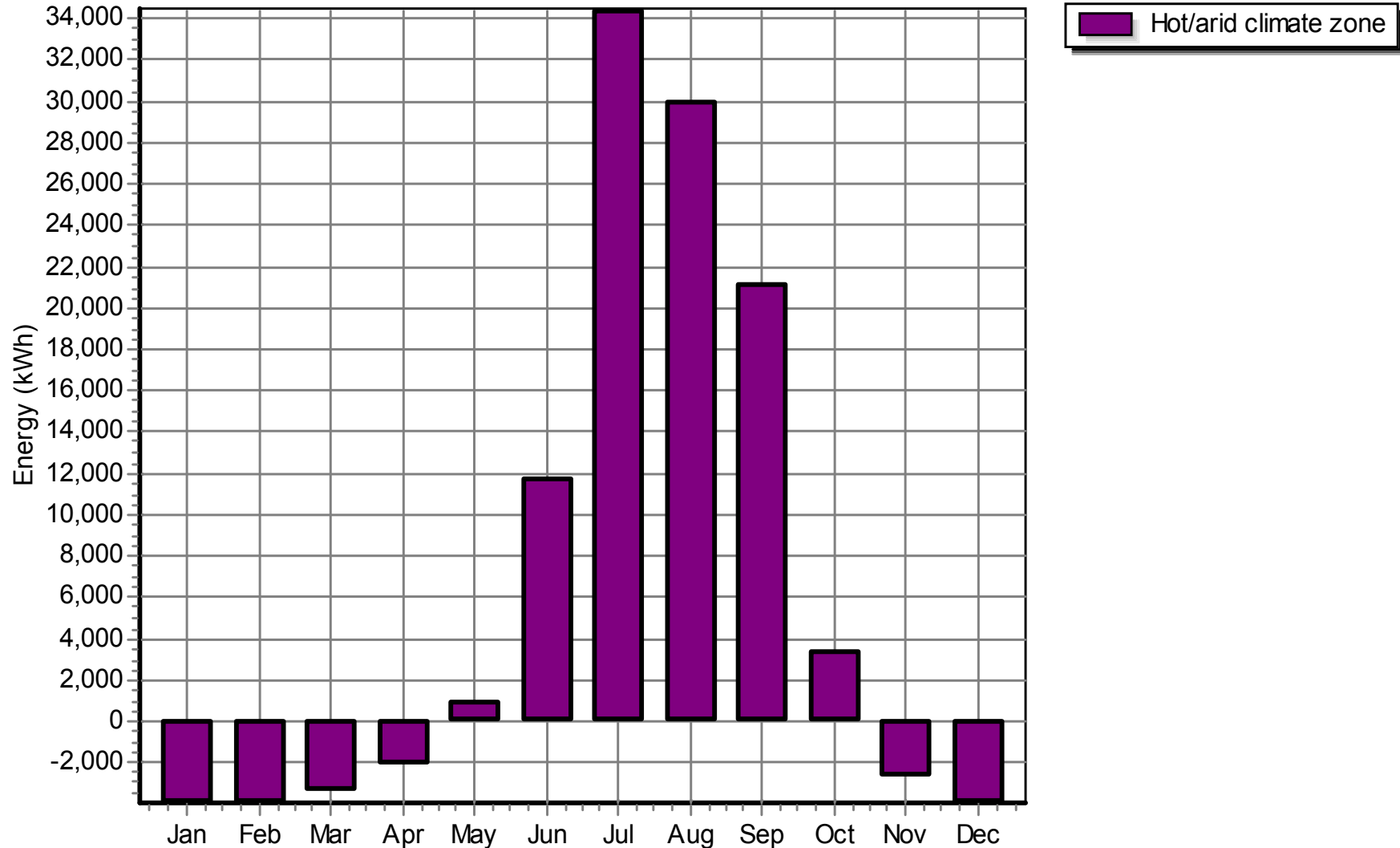
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



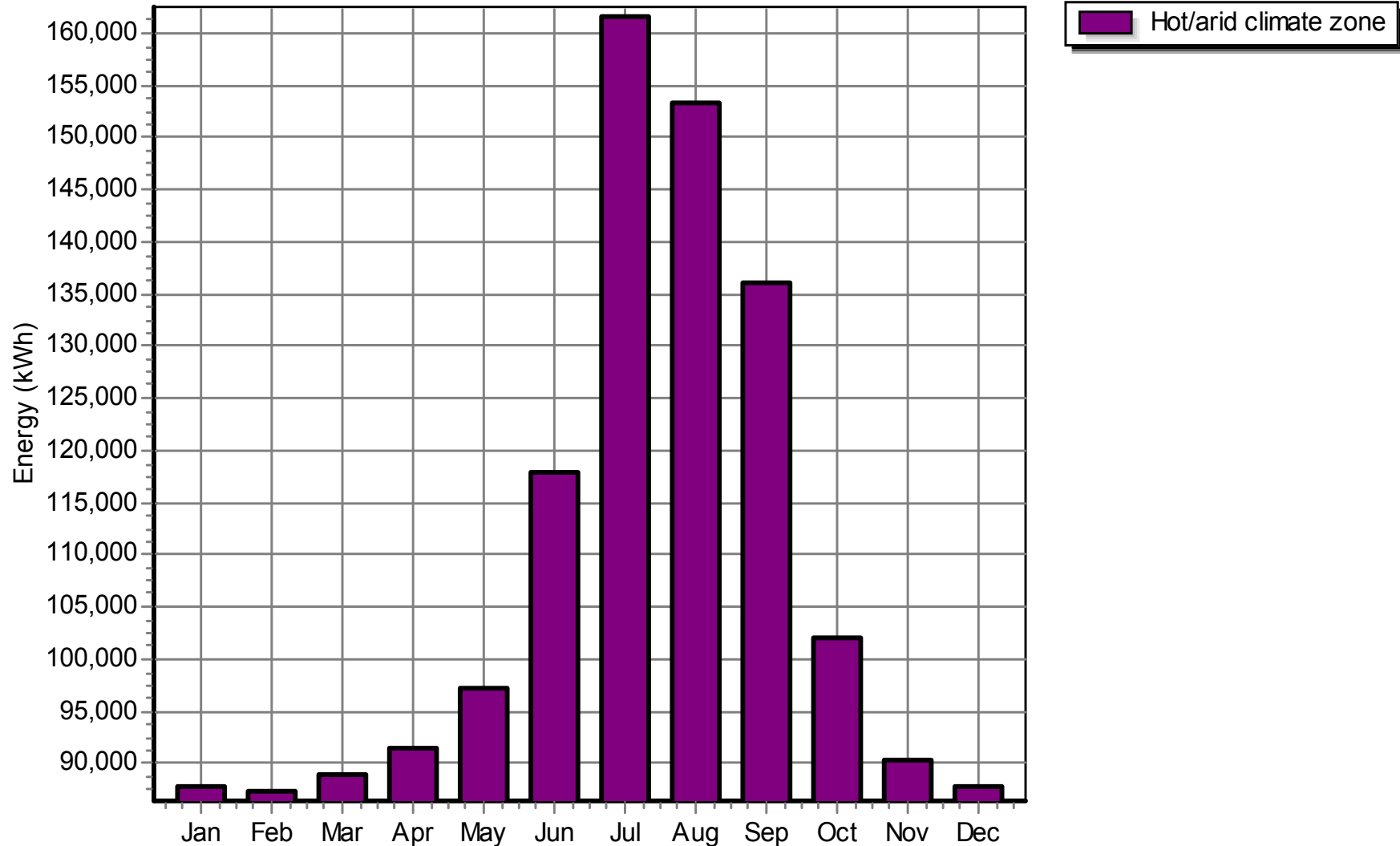
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CleanCalc
Clean Room Energy Simulation Analysis
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



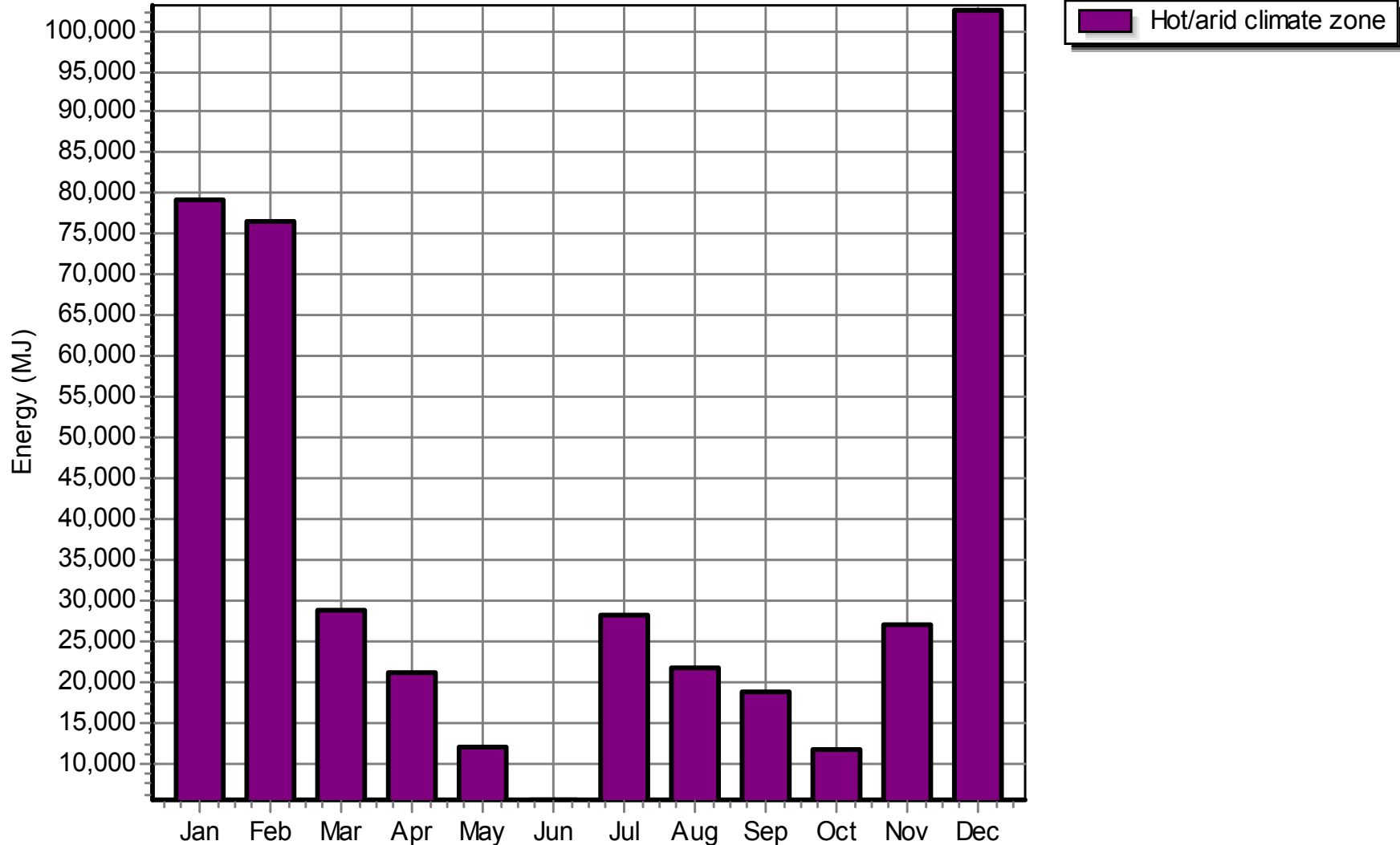
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



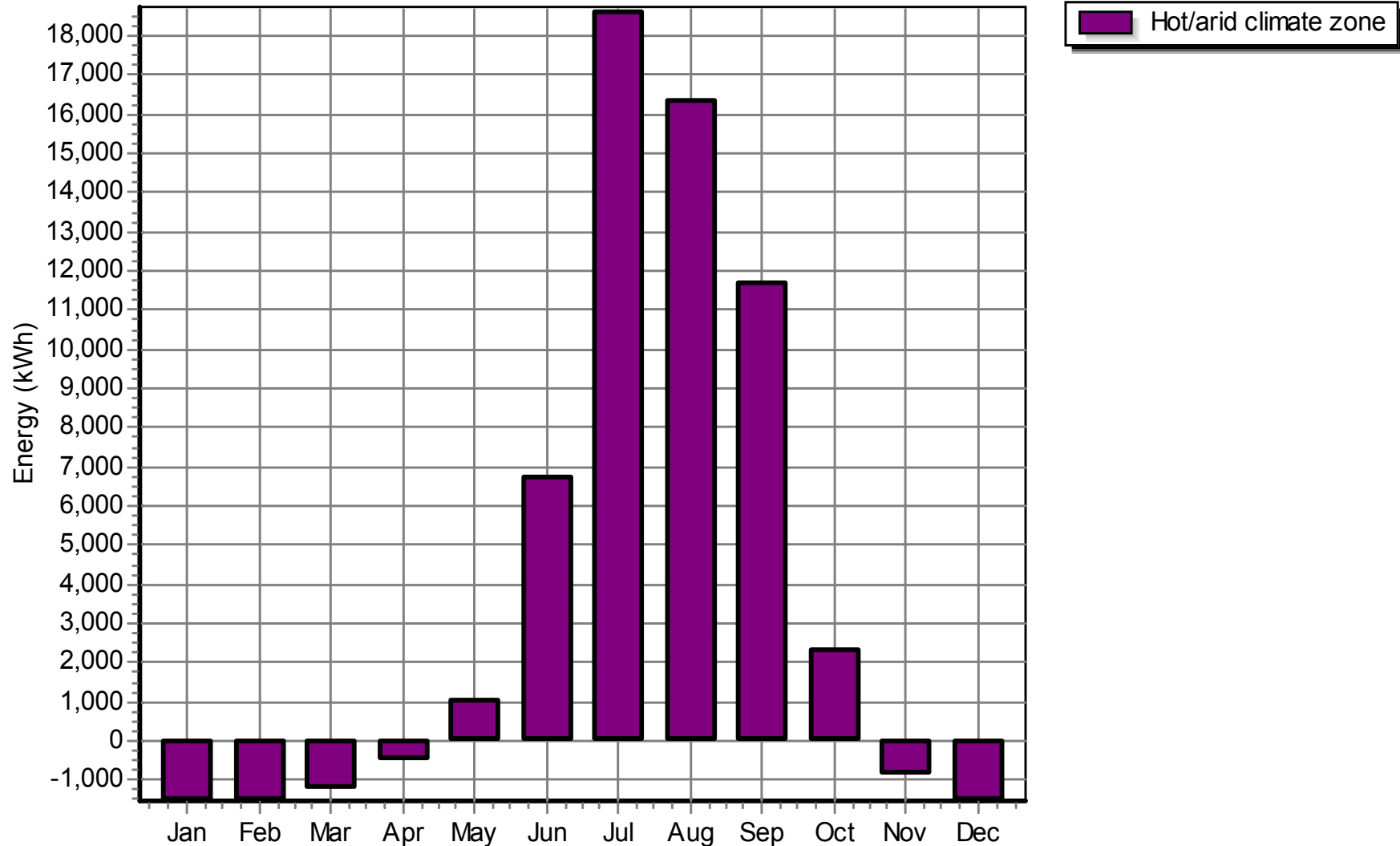
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



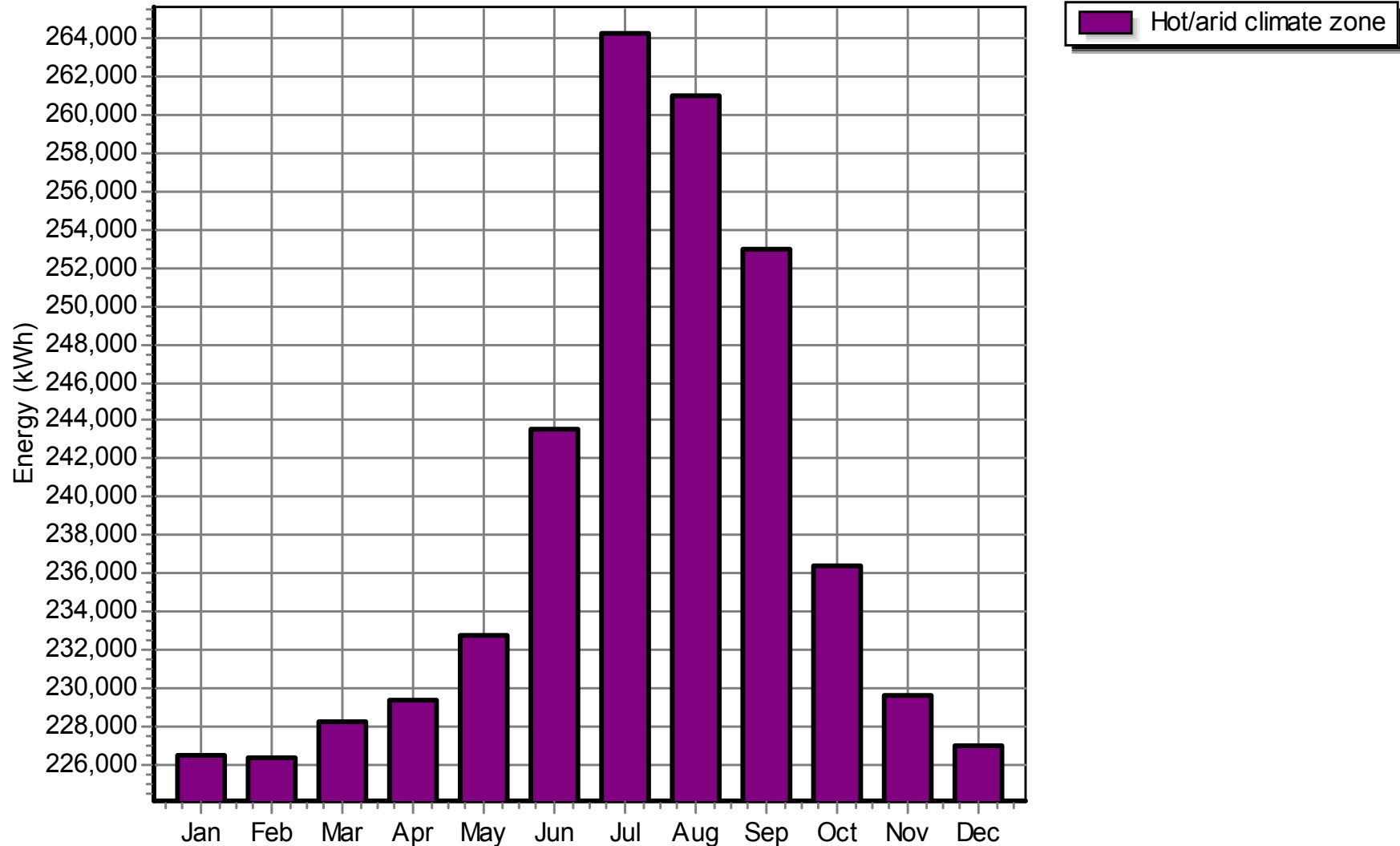
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Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



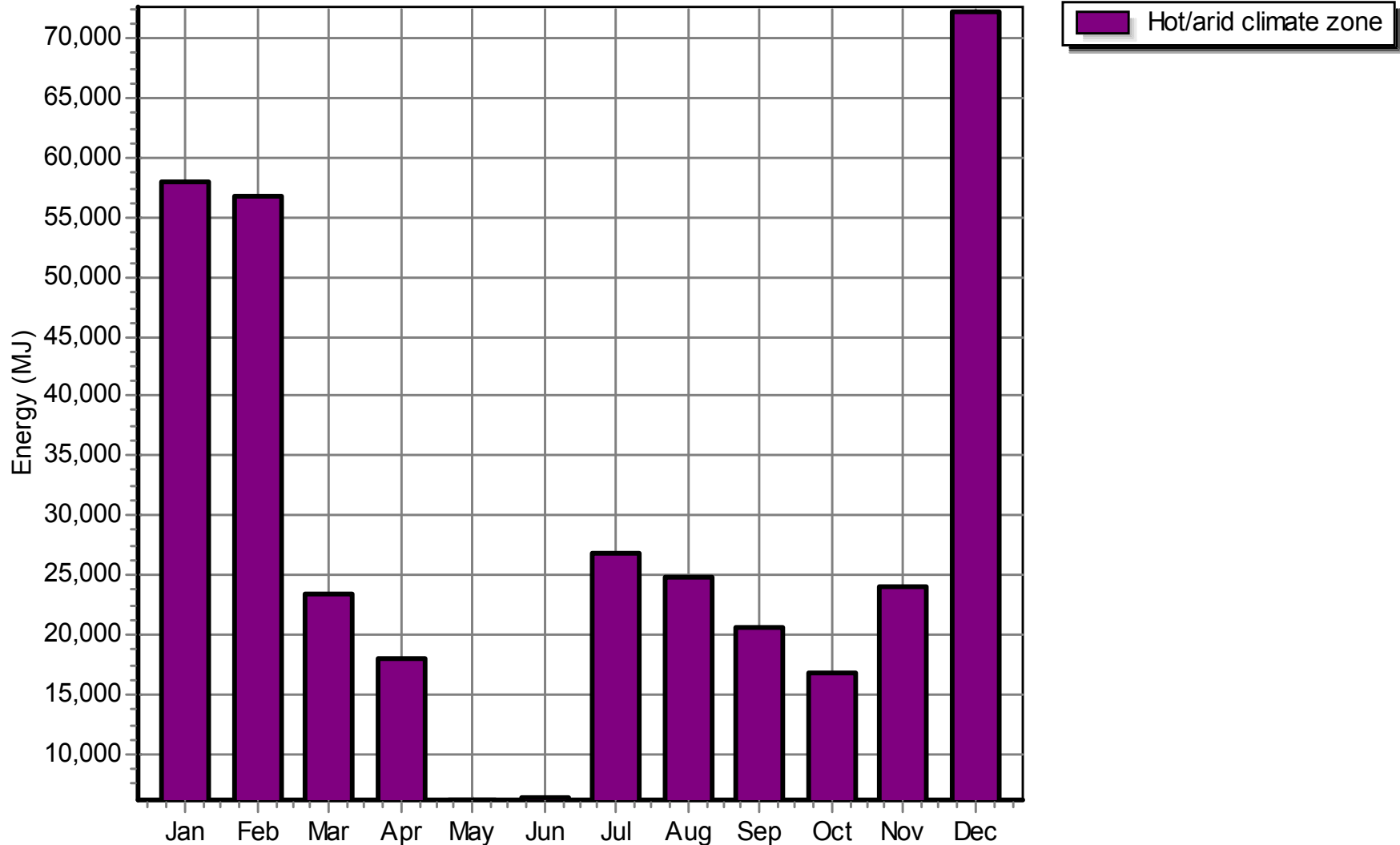
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Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



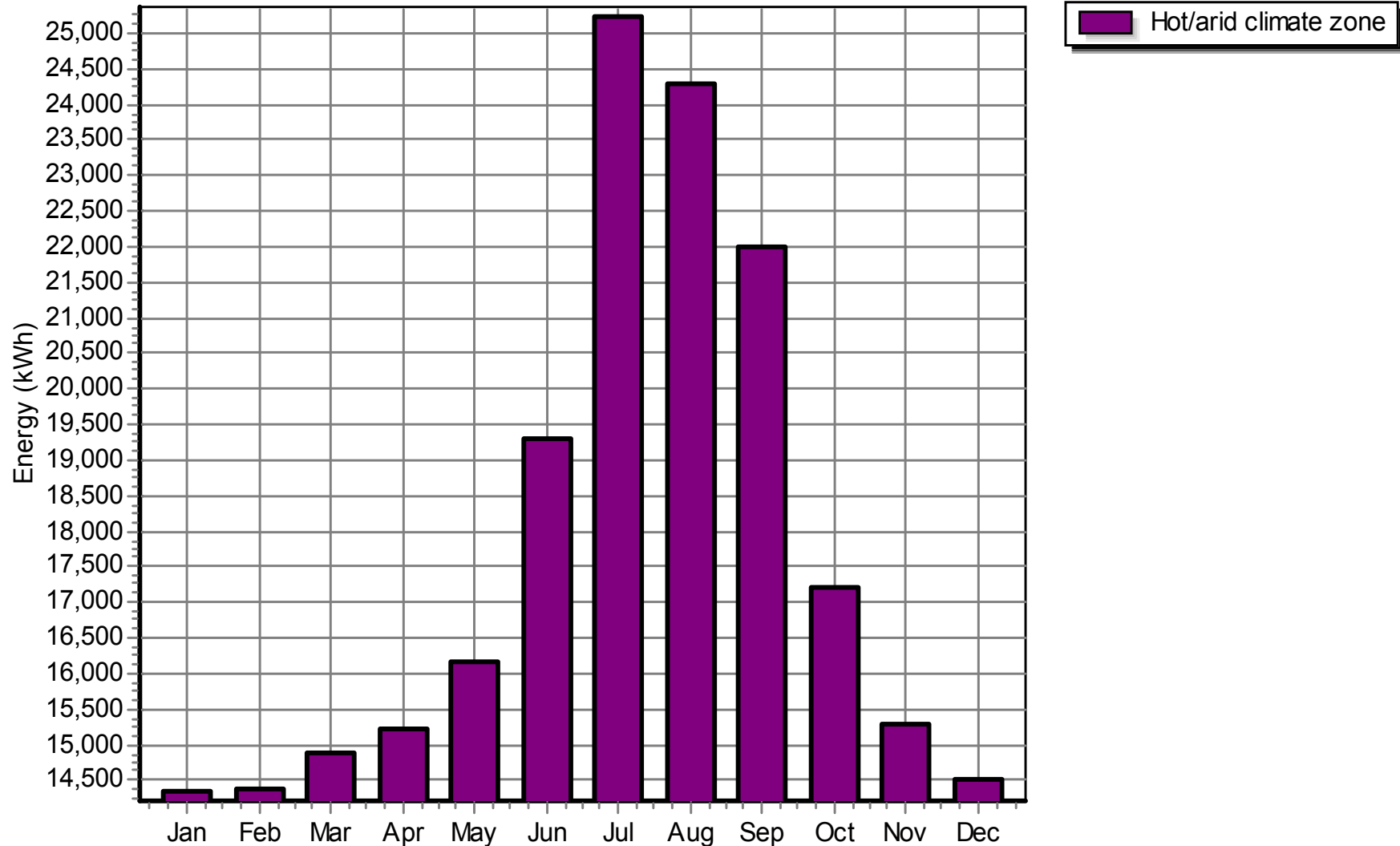
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Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



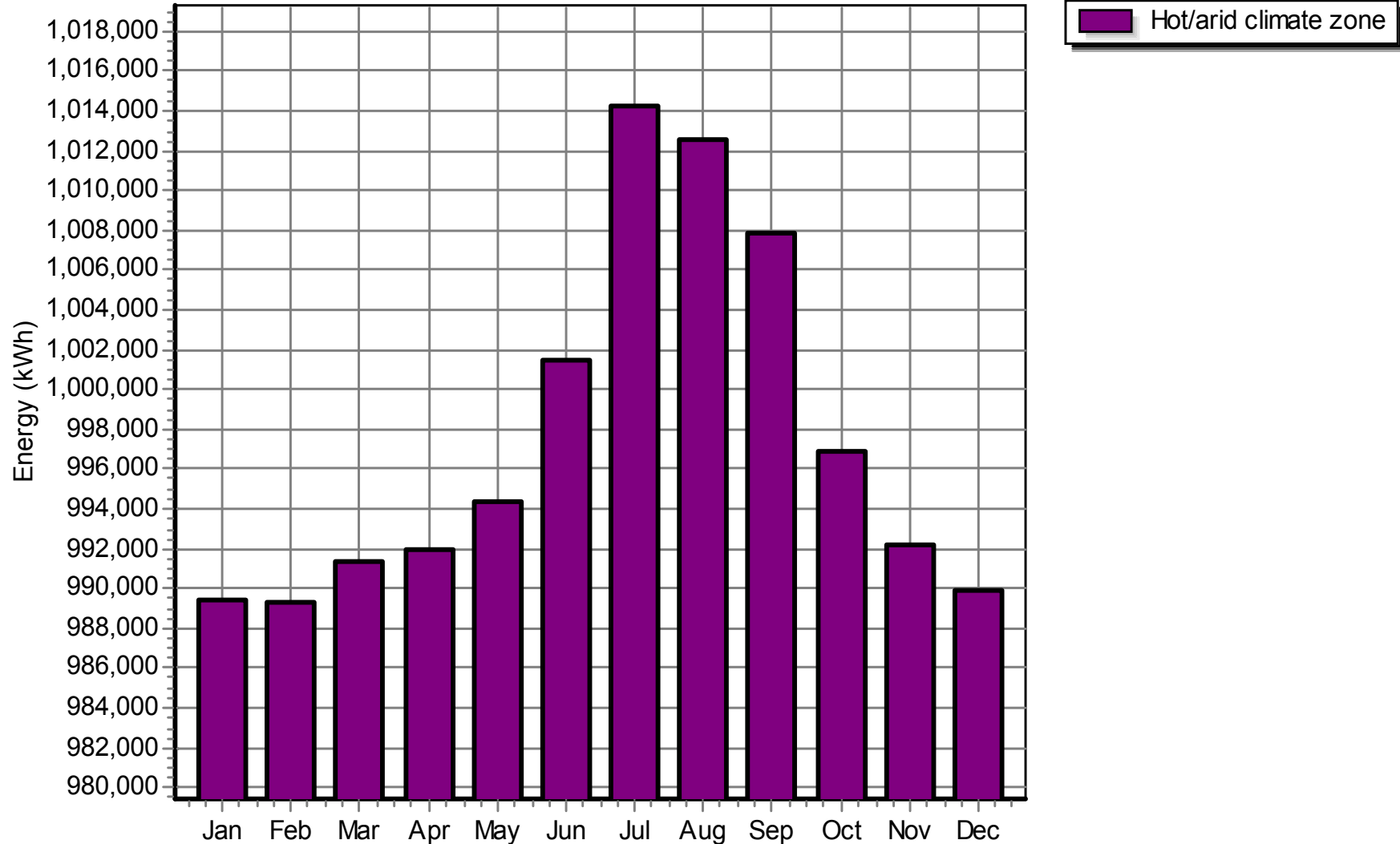
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



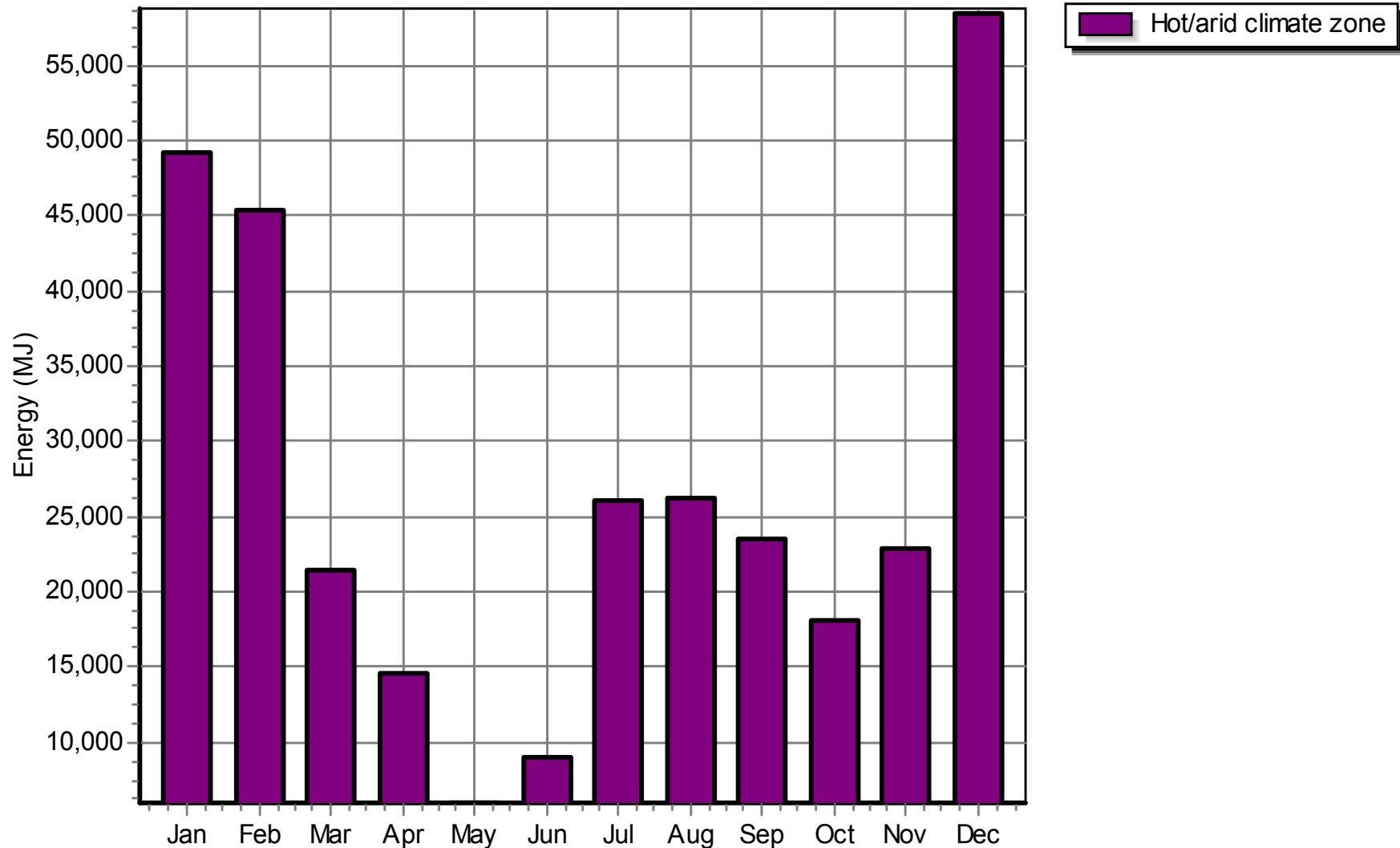
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



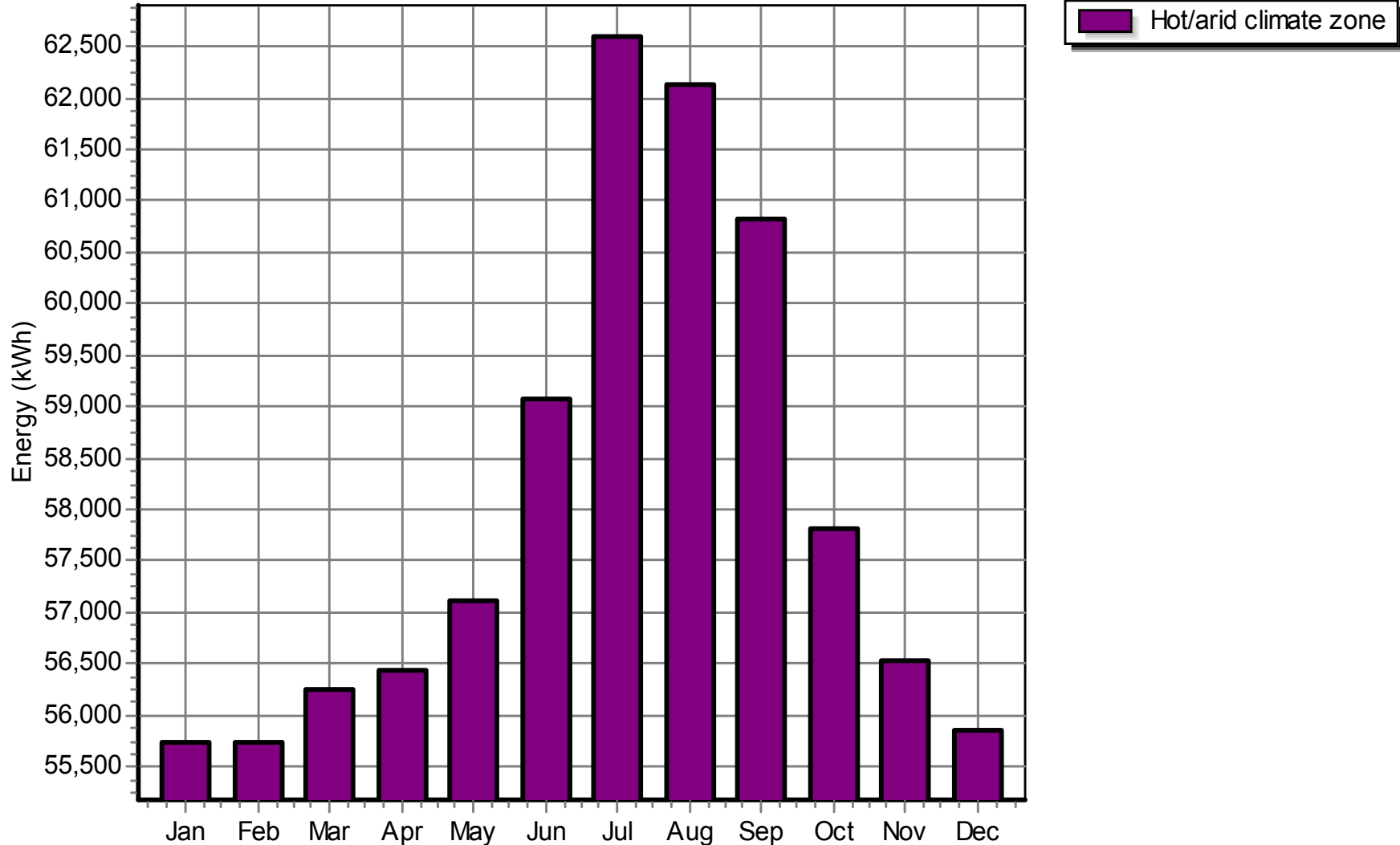
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

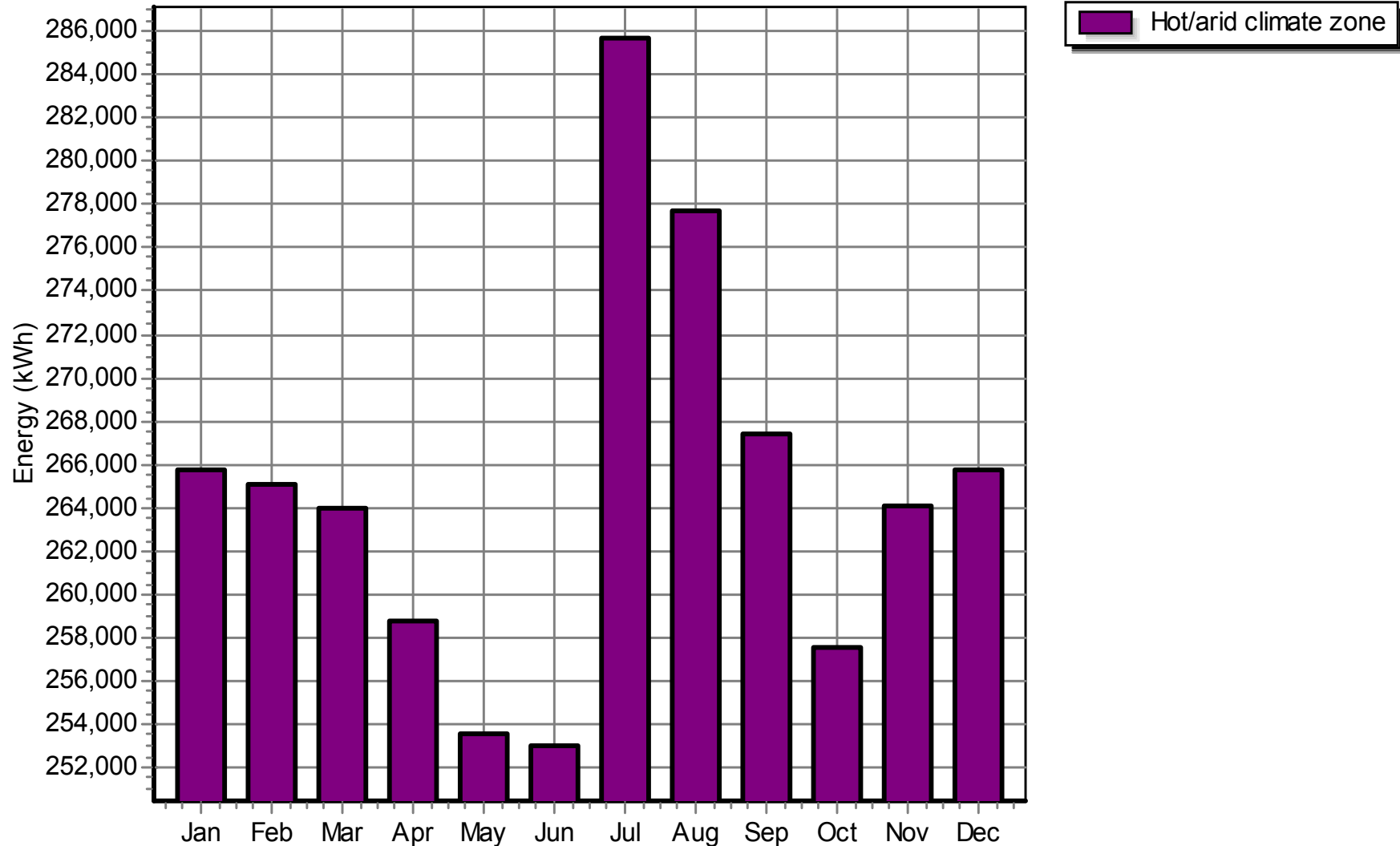


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

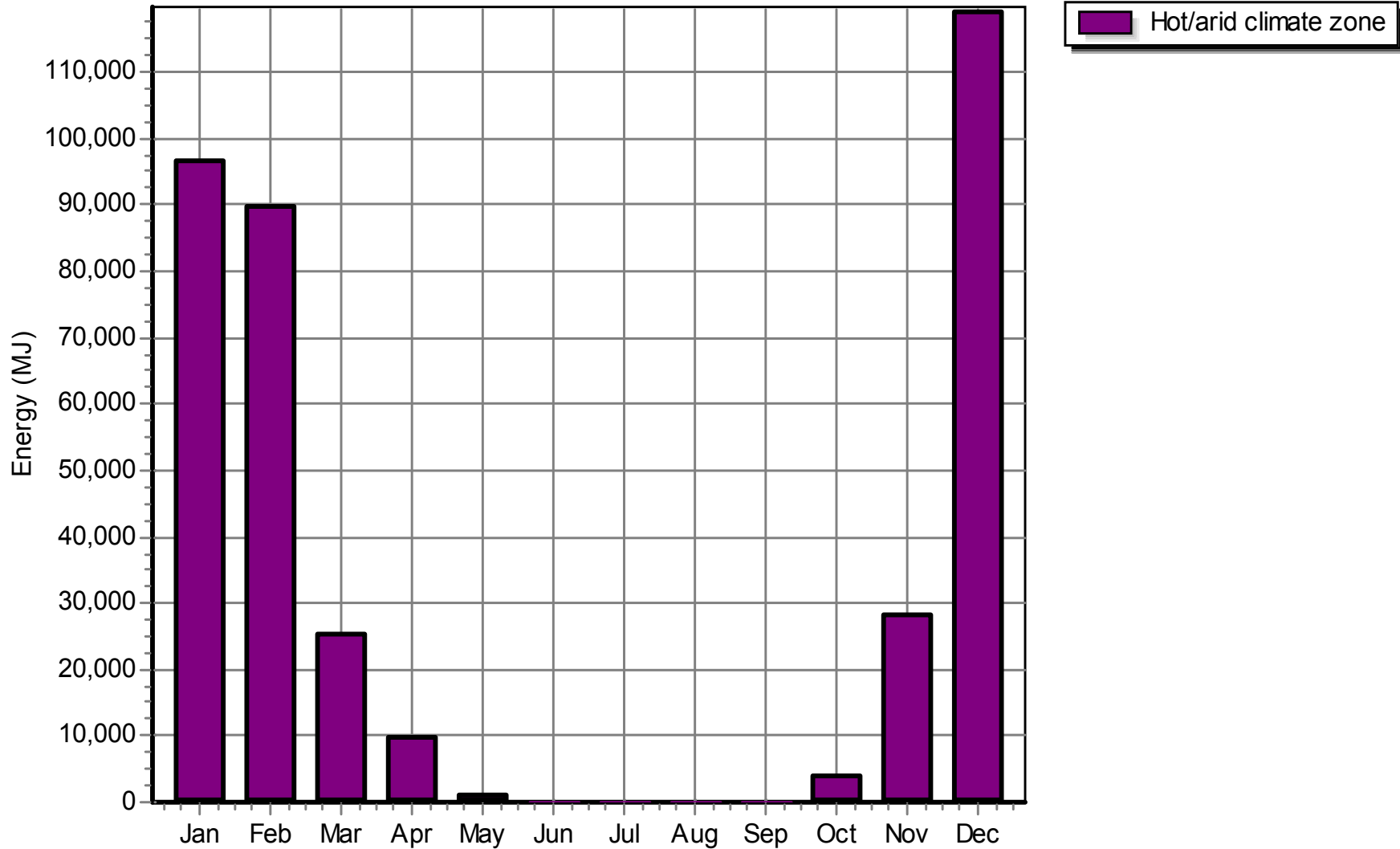


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2/1/2010

Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

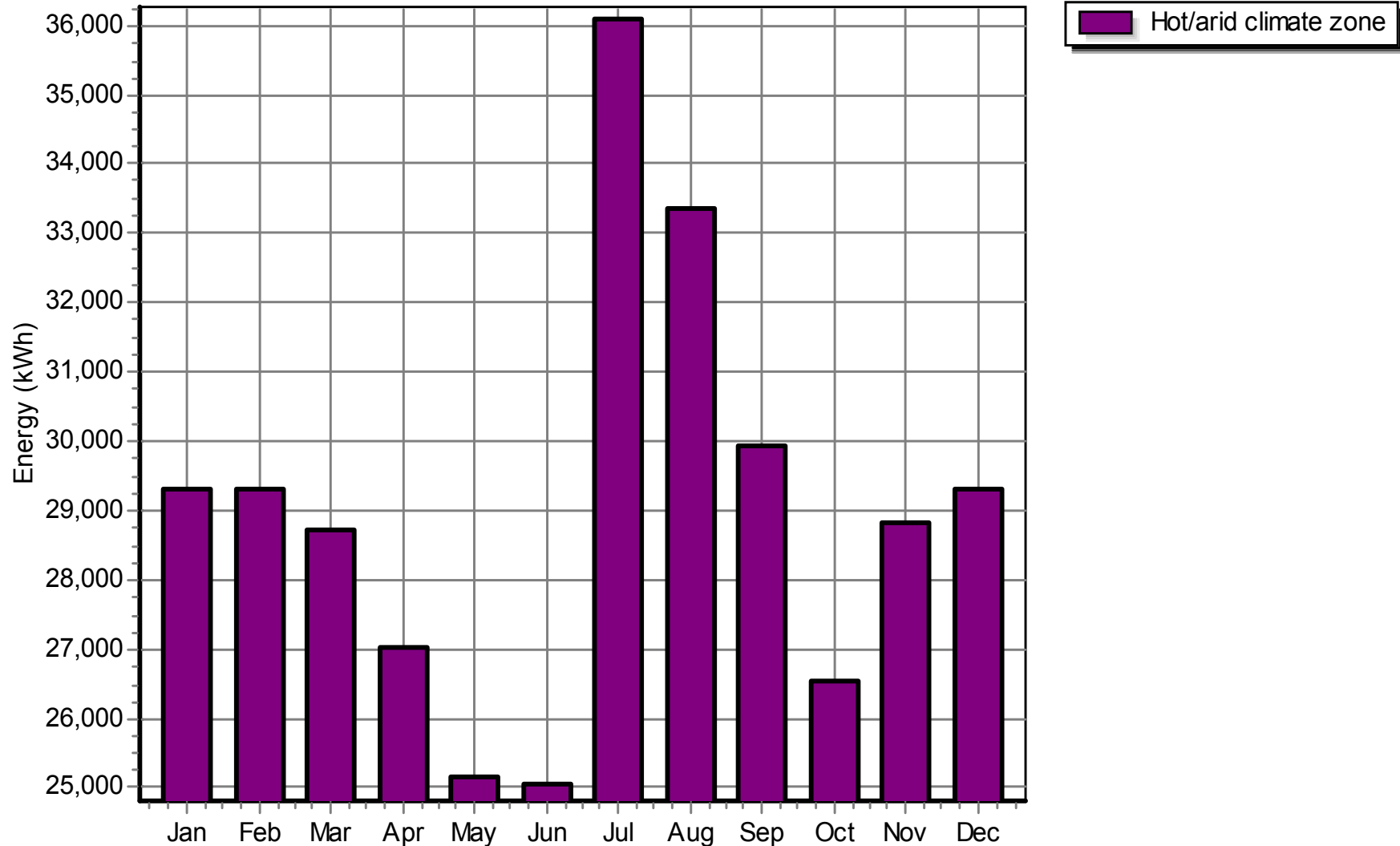


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2/1/2010

Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

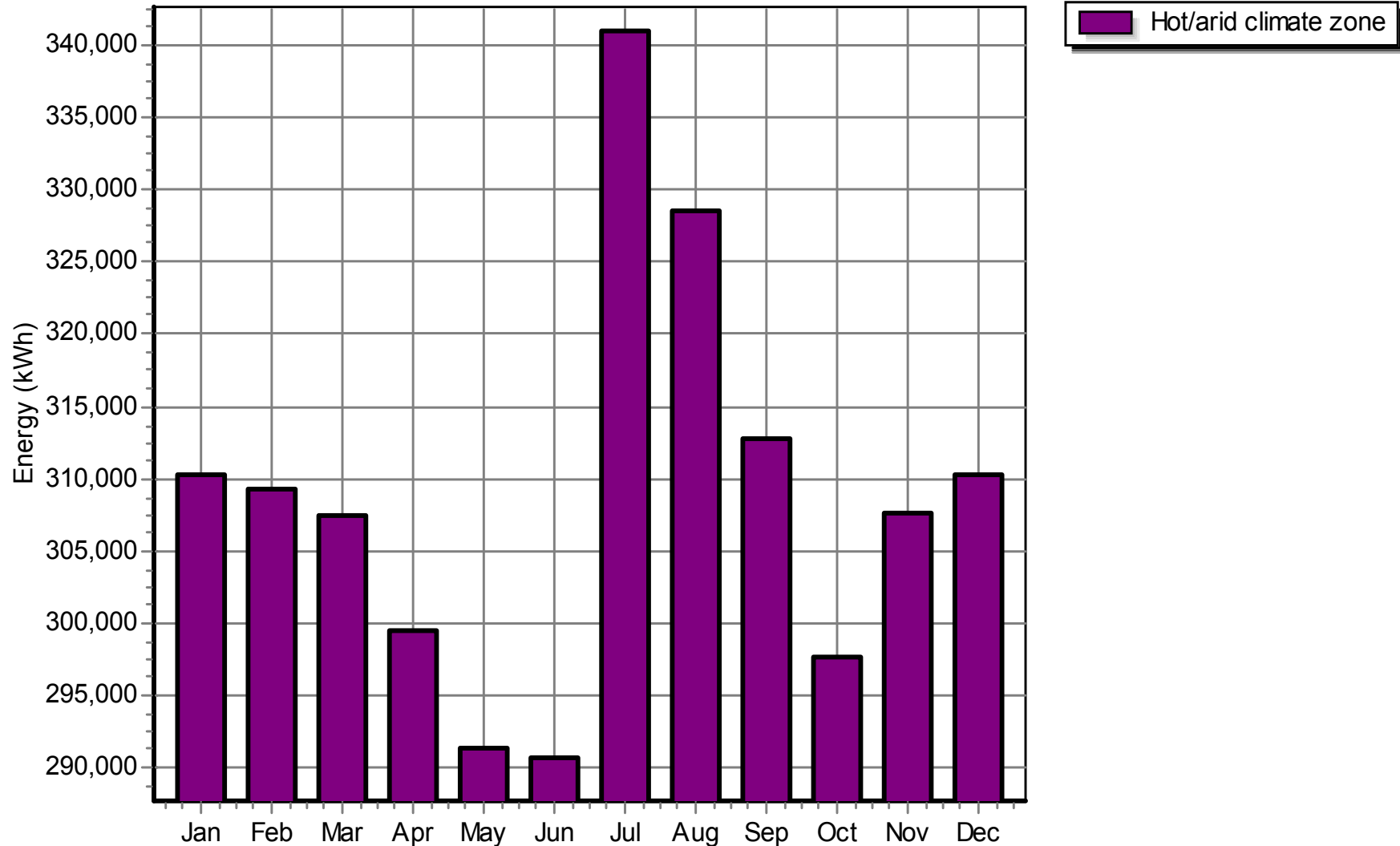


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Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



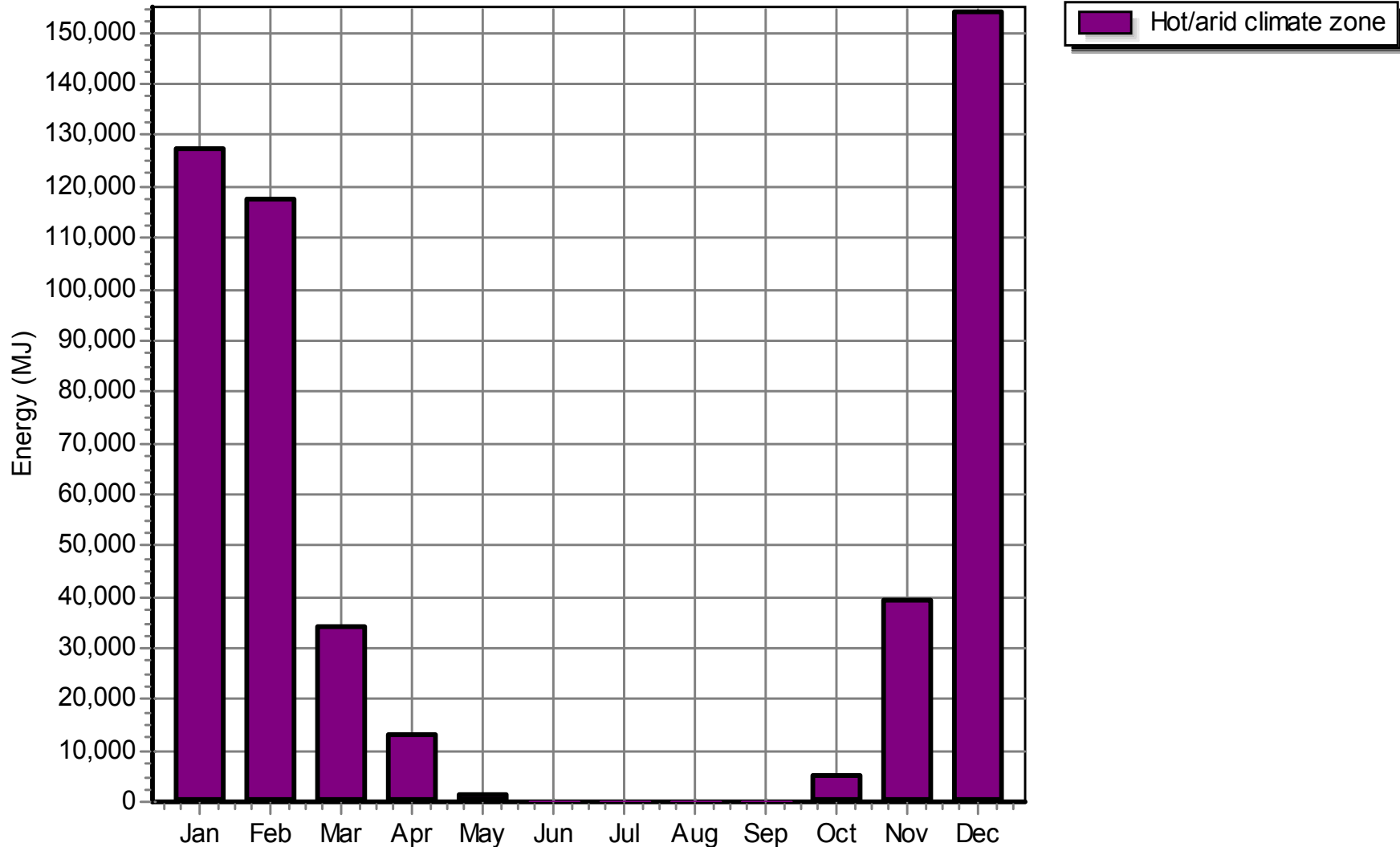
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2/1/2010

Room TYPE: UPW Plant

Room NAME: UPW Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



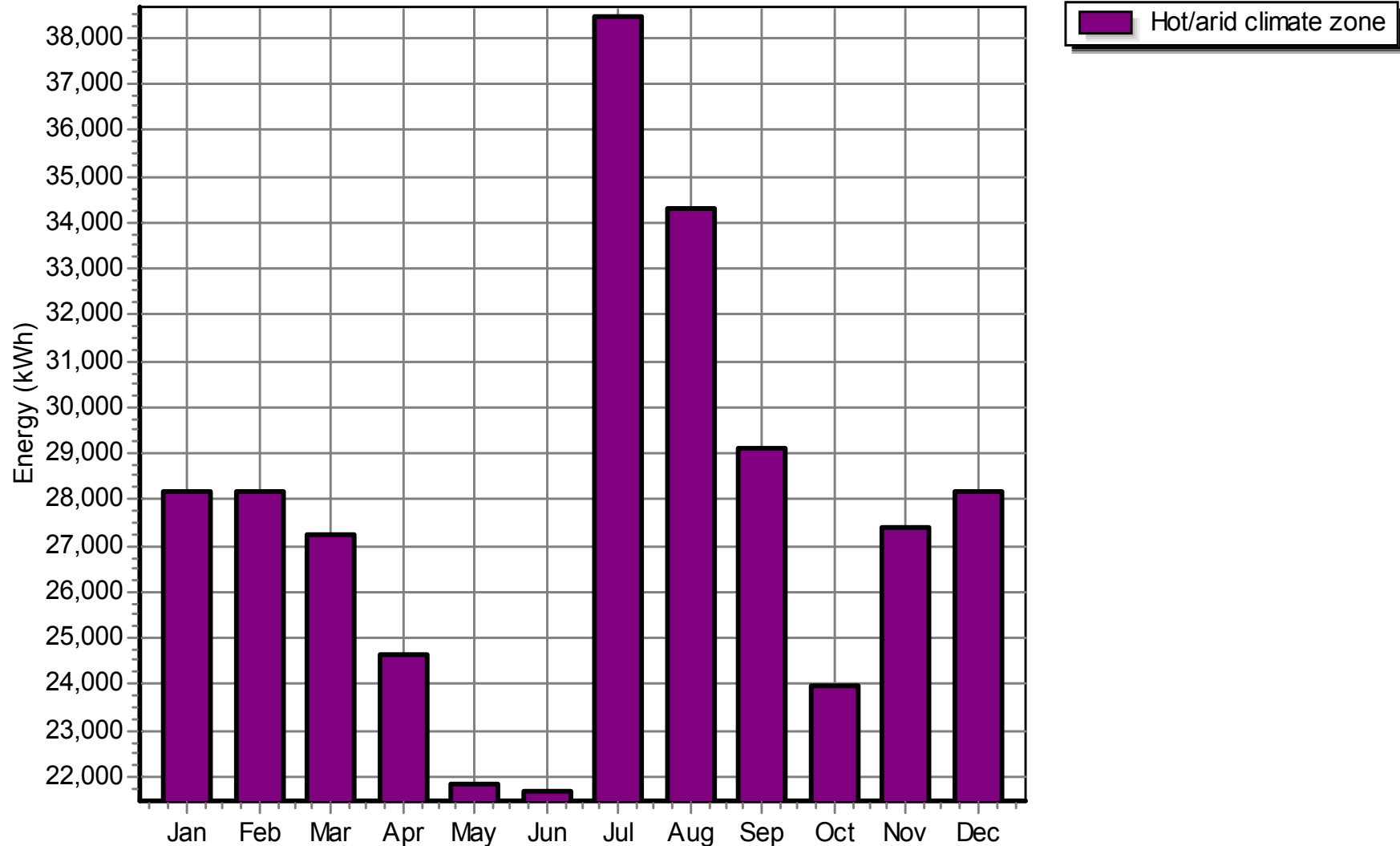
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Room TYPE: UPW Plant

Room NAME: UPW Plant

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

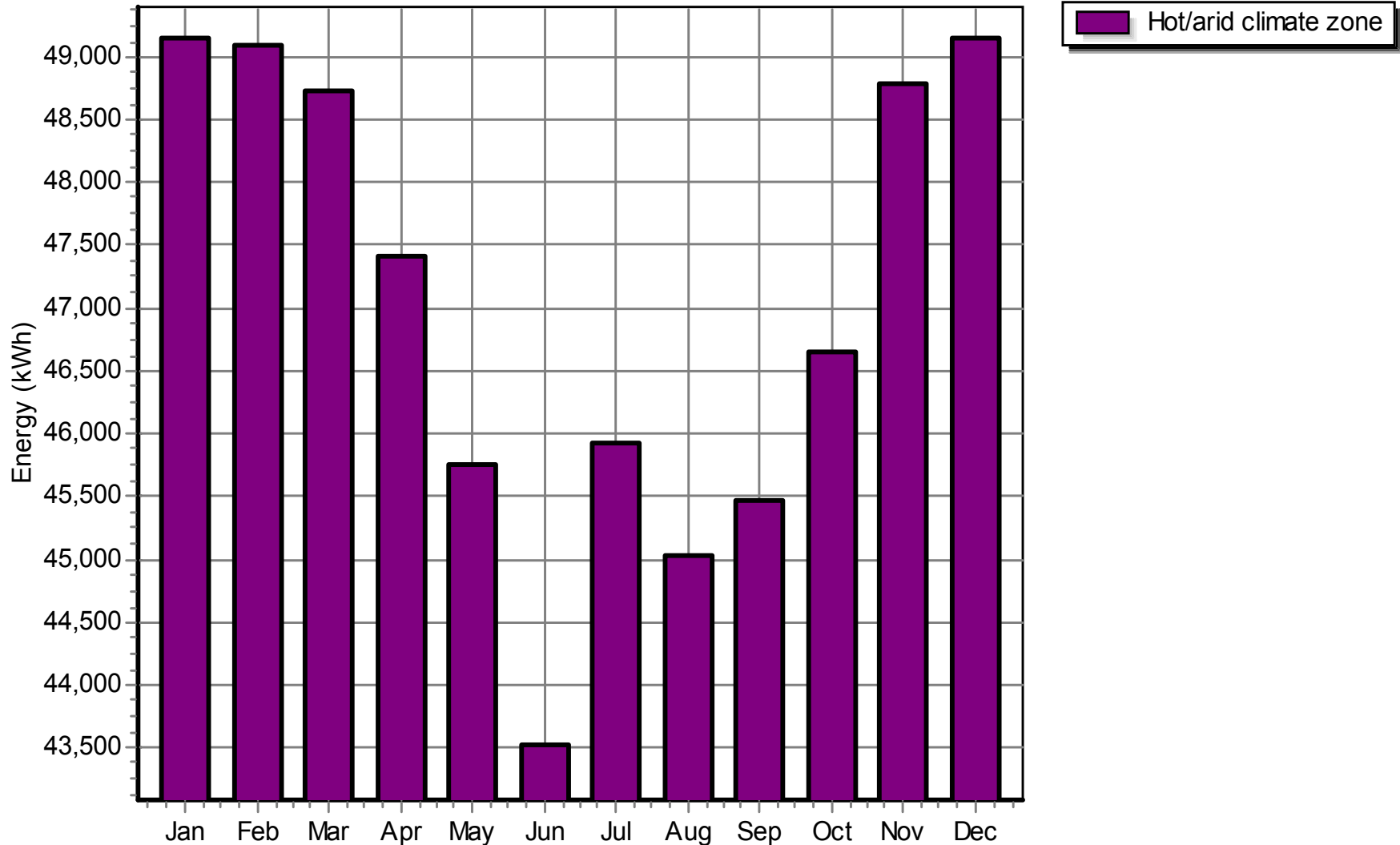


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Version 2.9.11
2/1/2010

Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

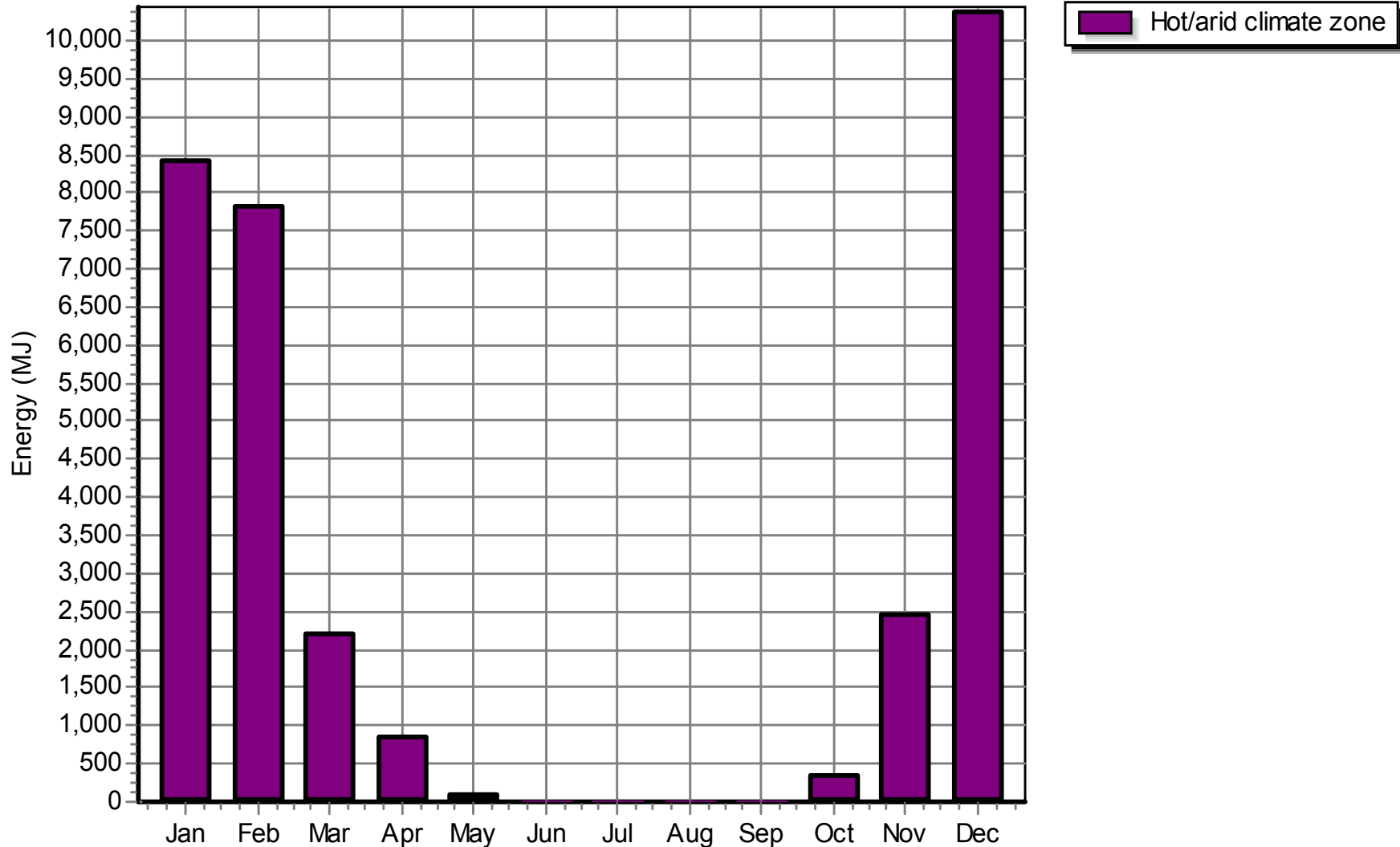


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2/1/2010

Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

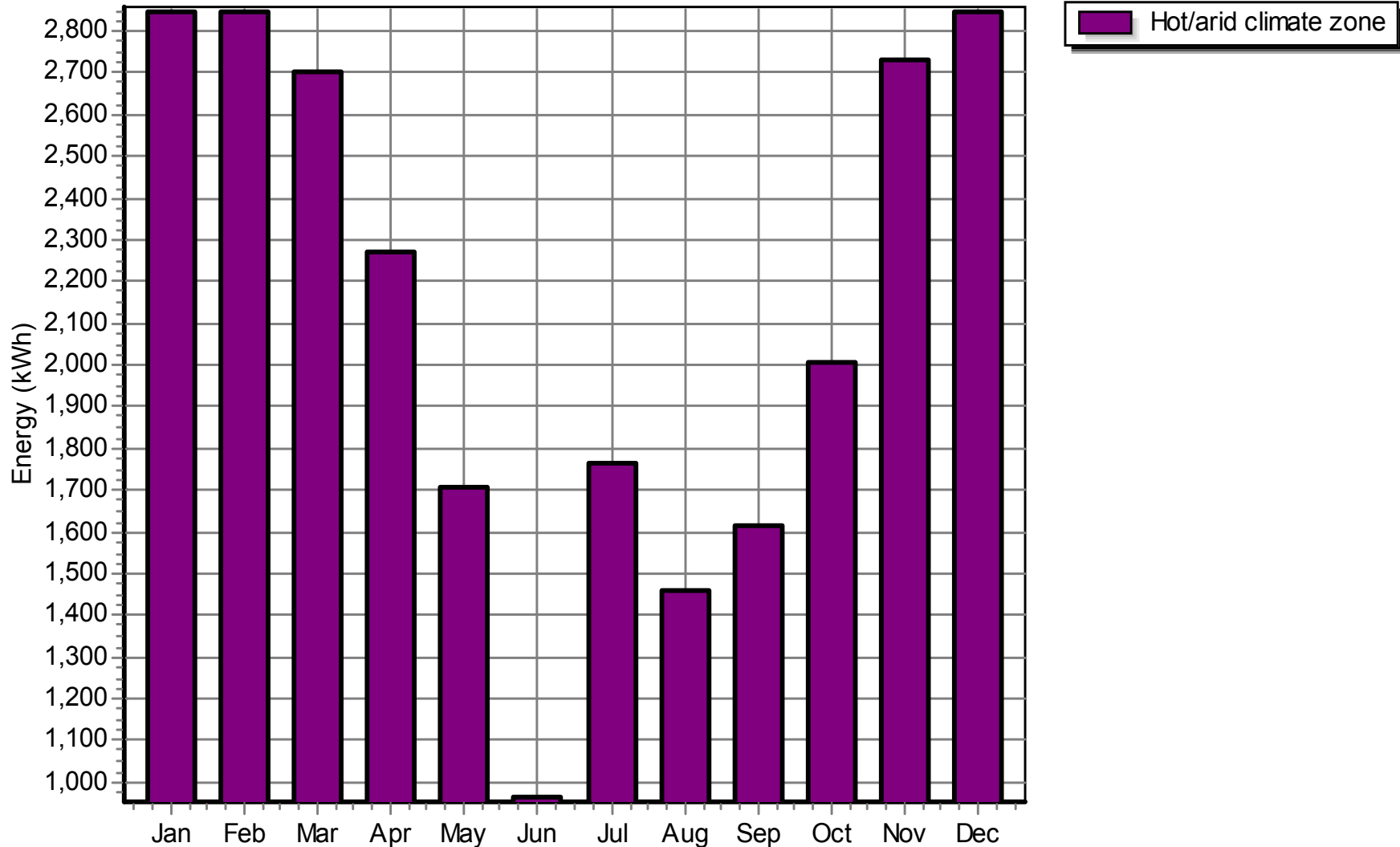


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Clean Room Energy Simulation Analysis
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2/1/2010

Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



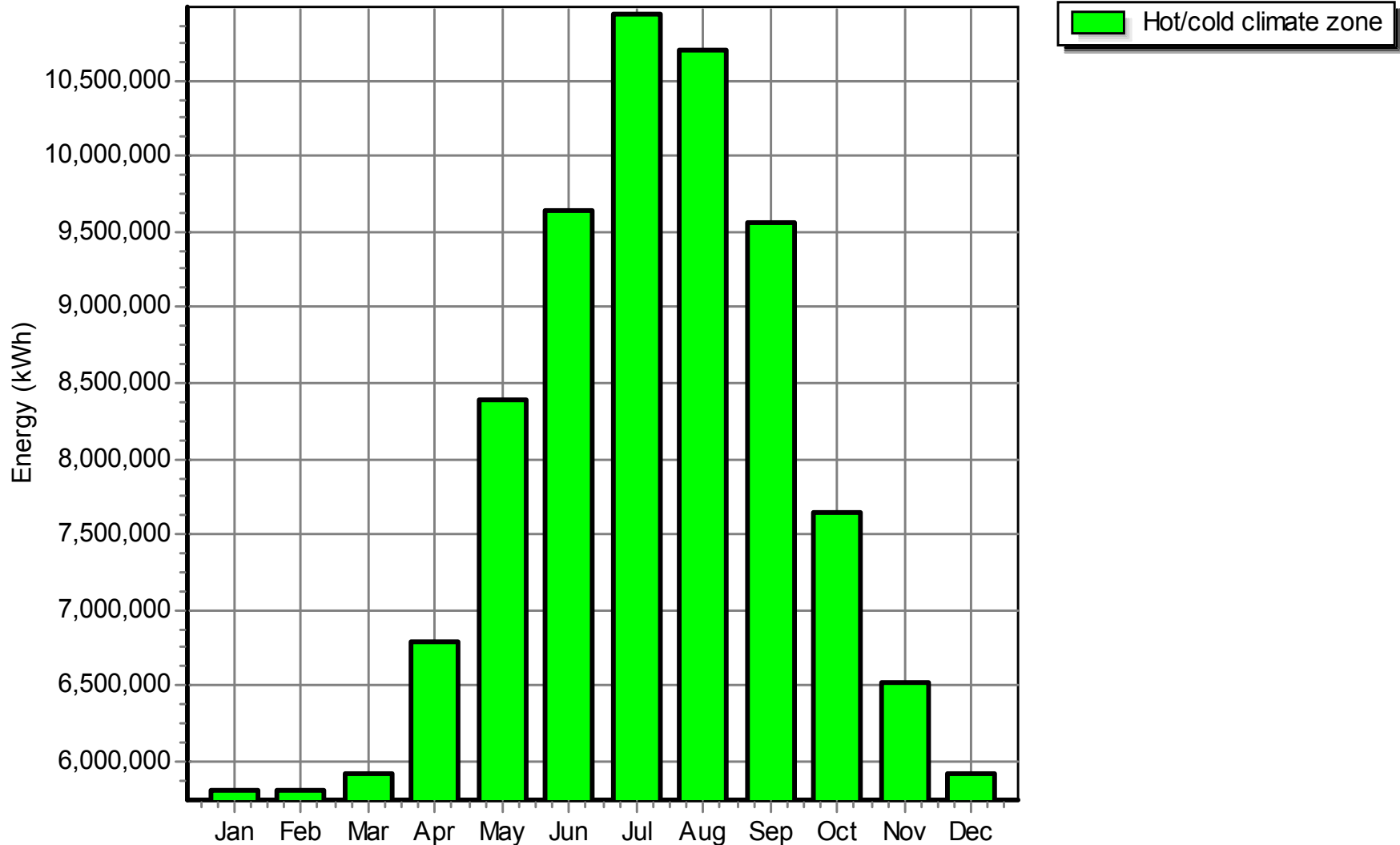
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CleanCalc
 Clean Room Energy Simulation Analysis
 Version 2.9.11
 2/1/2010

Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



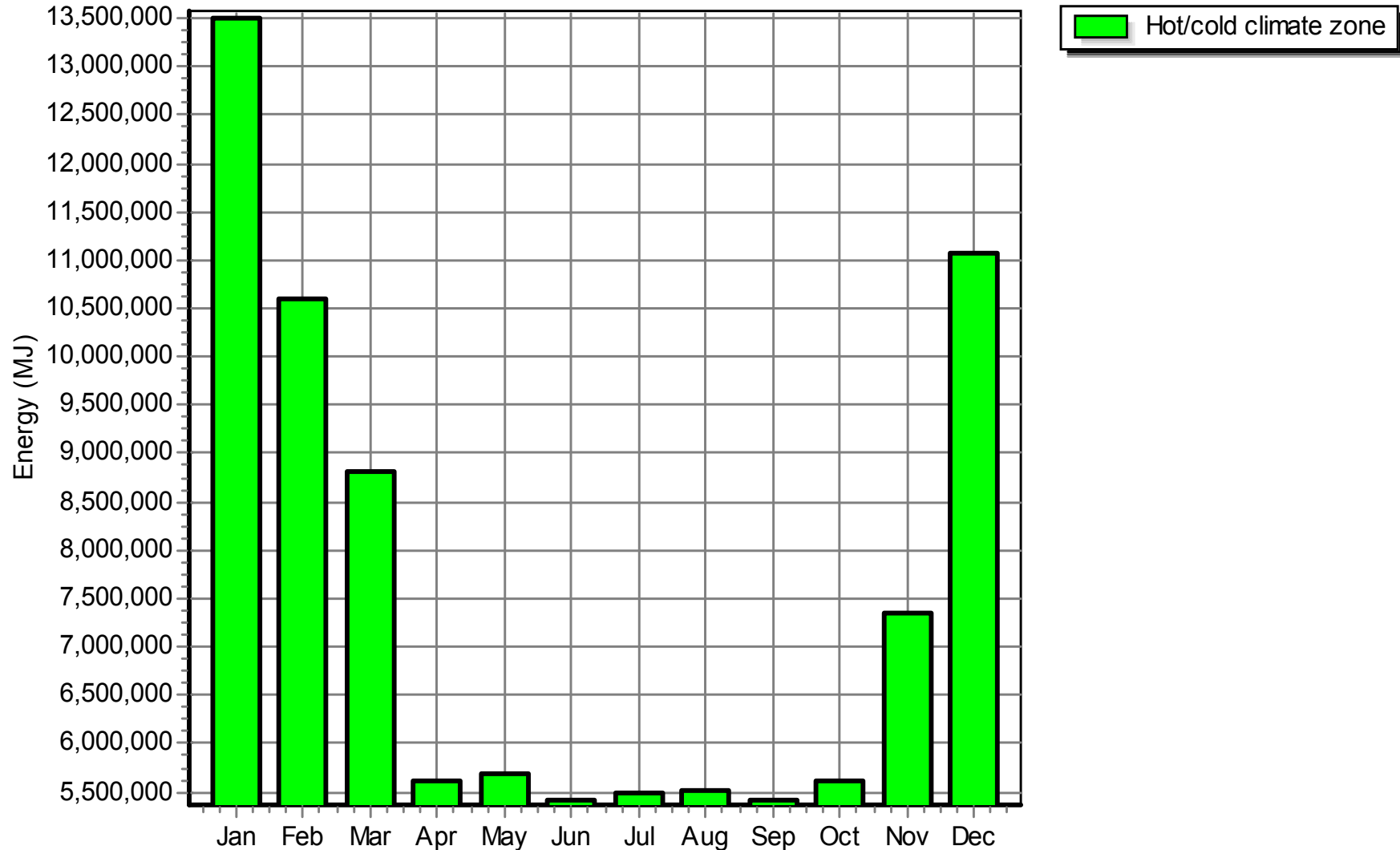
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Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



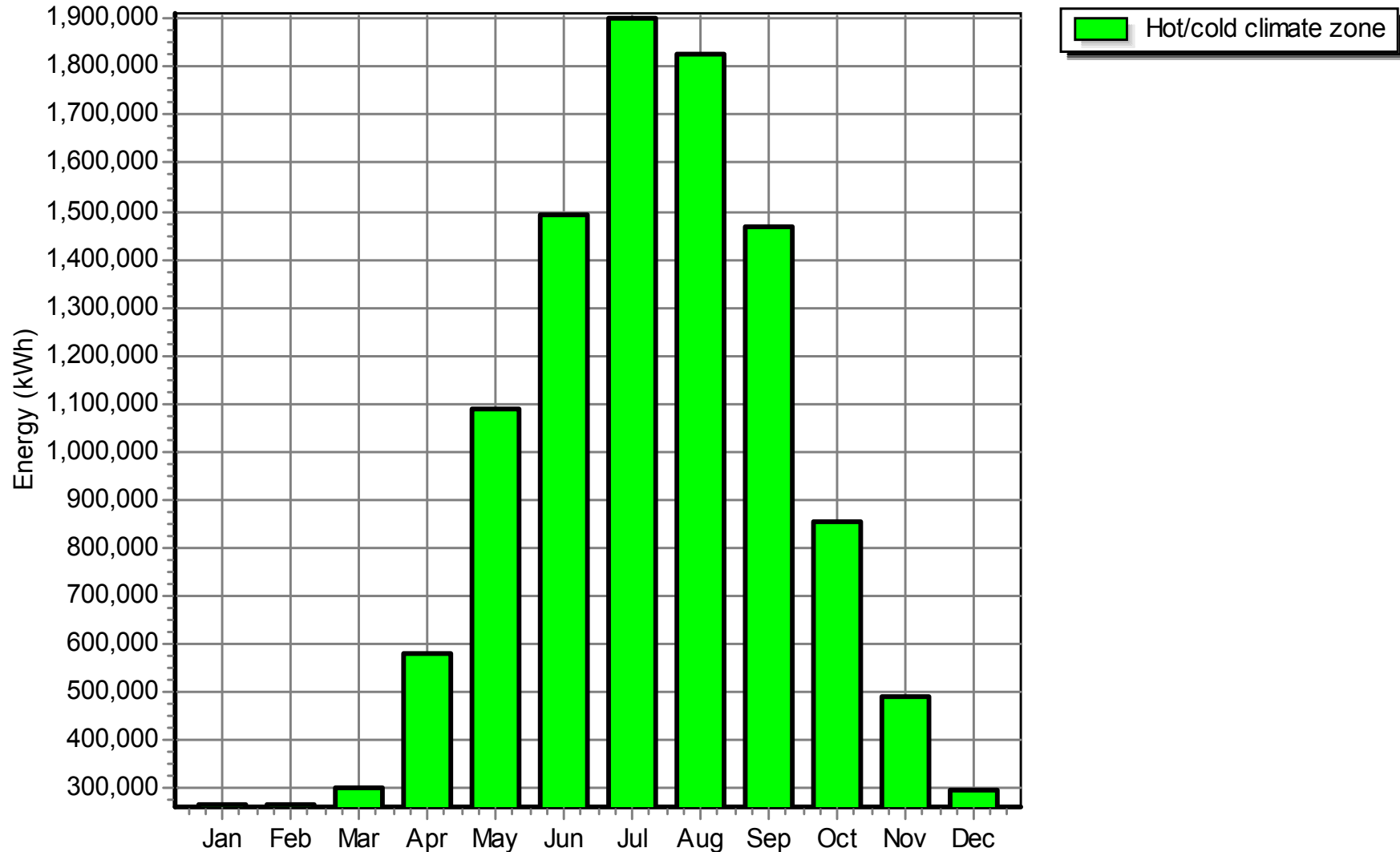
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CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: FAB Cleanroom

Room NAME: FAB Cleanroom

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



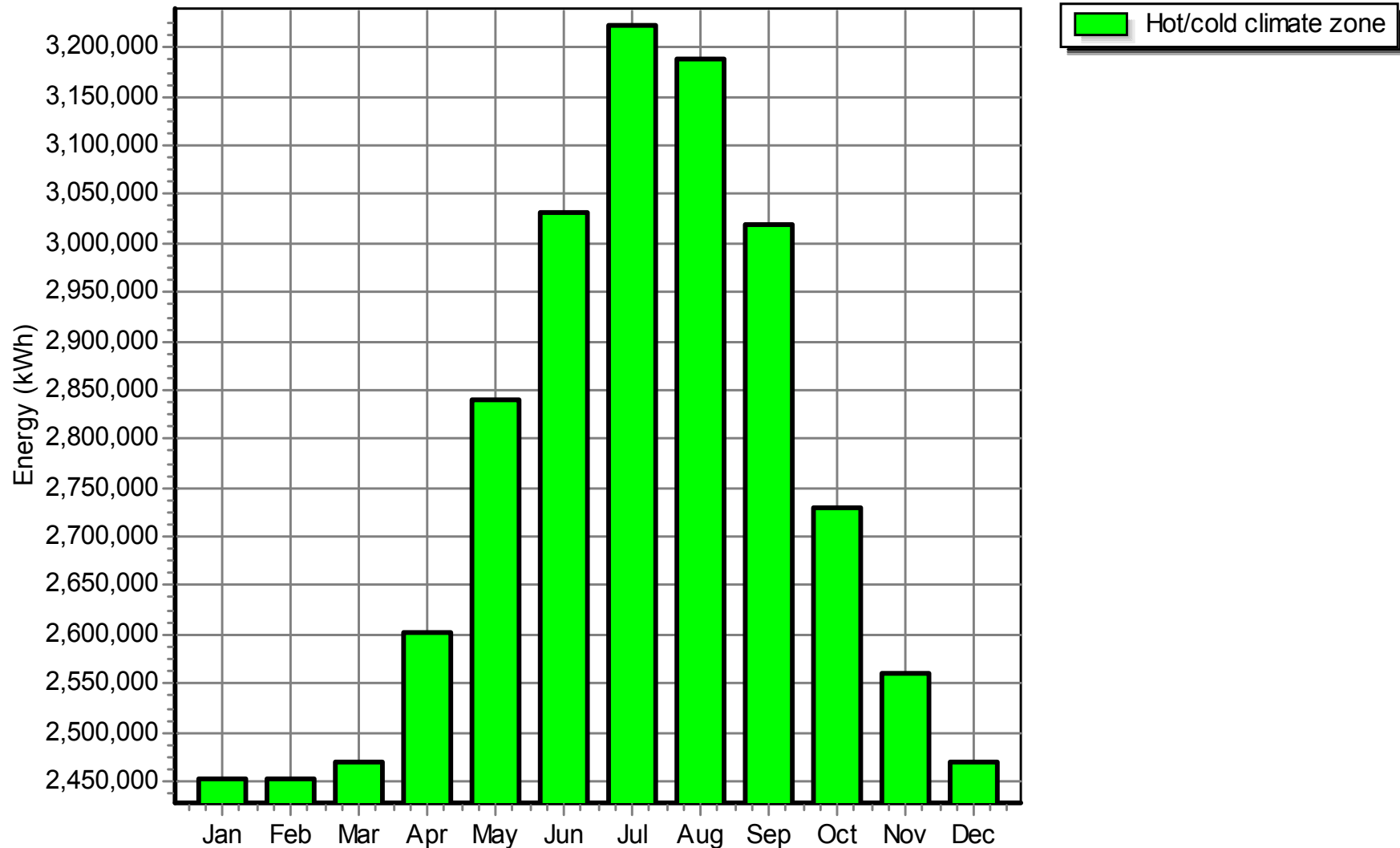
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Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



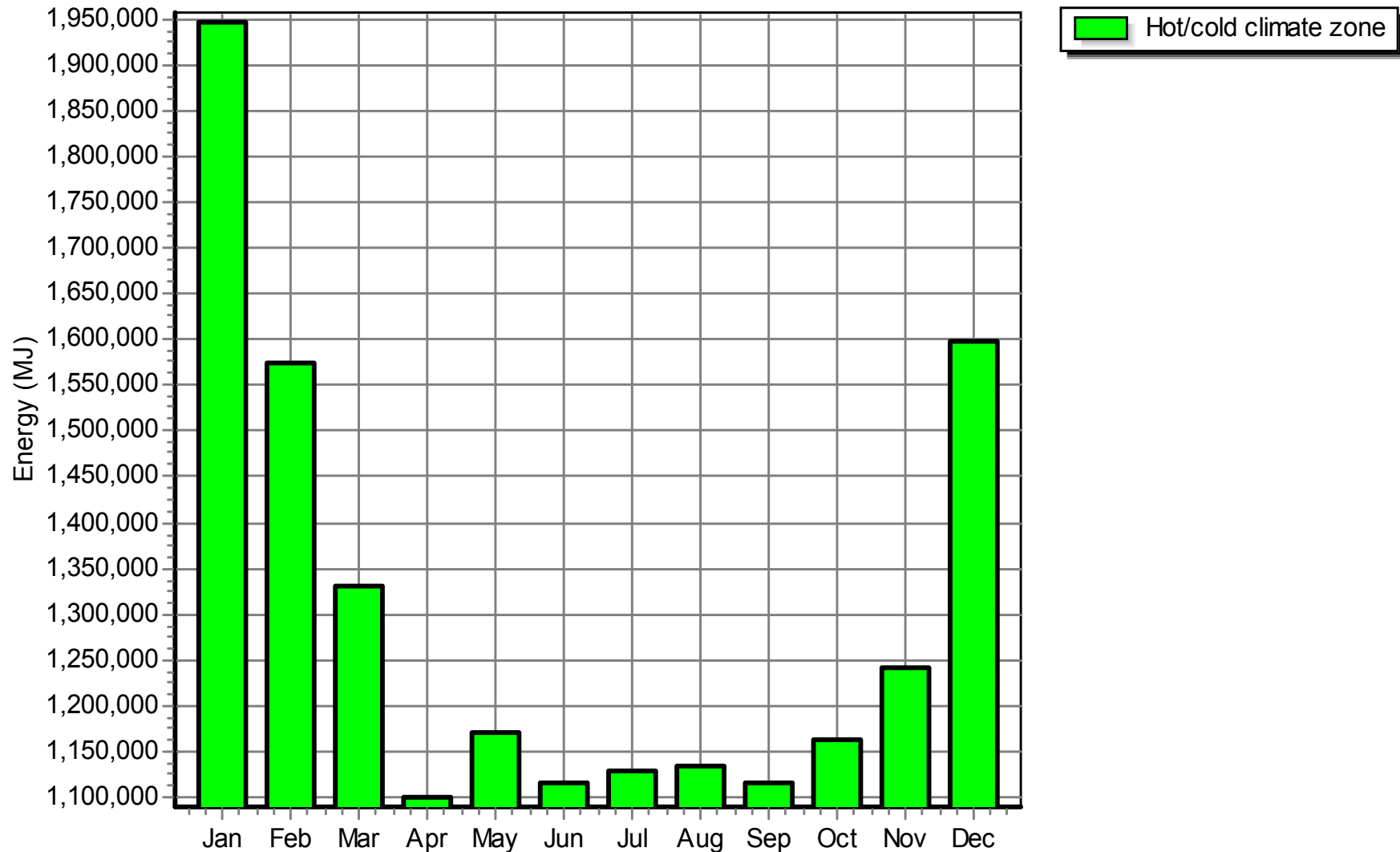
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Version 2.9.11
2/1/2010

Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



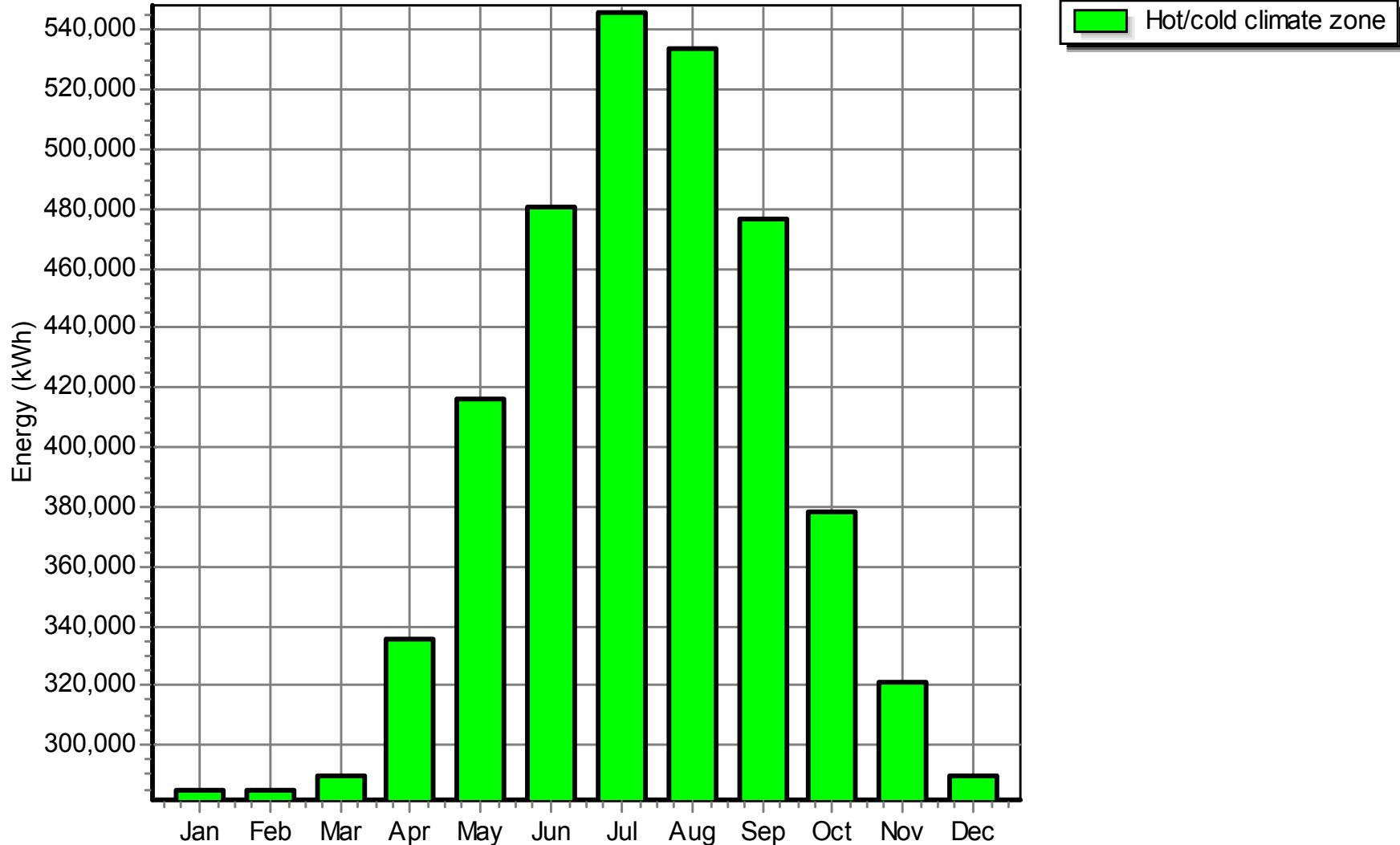
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2/1/2010

Room TYPE: Clean Sub-Fab

Room NAME: Sub-Fab

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



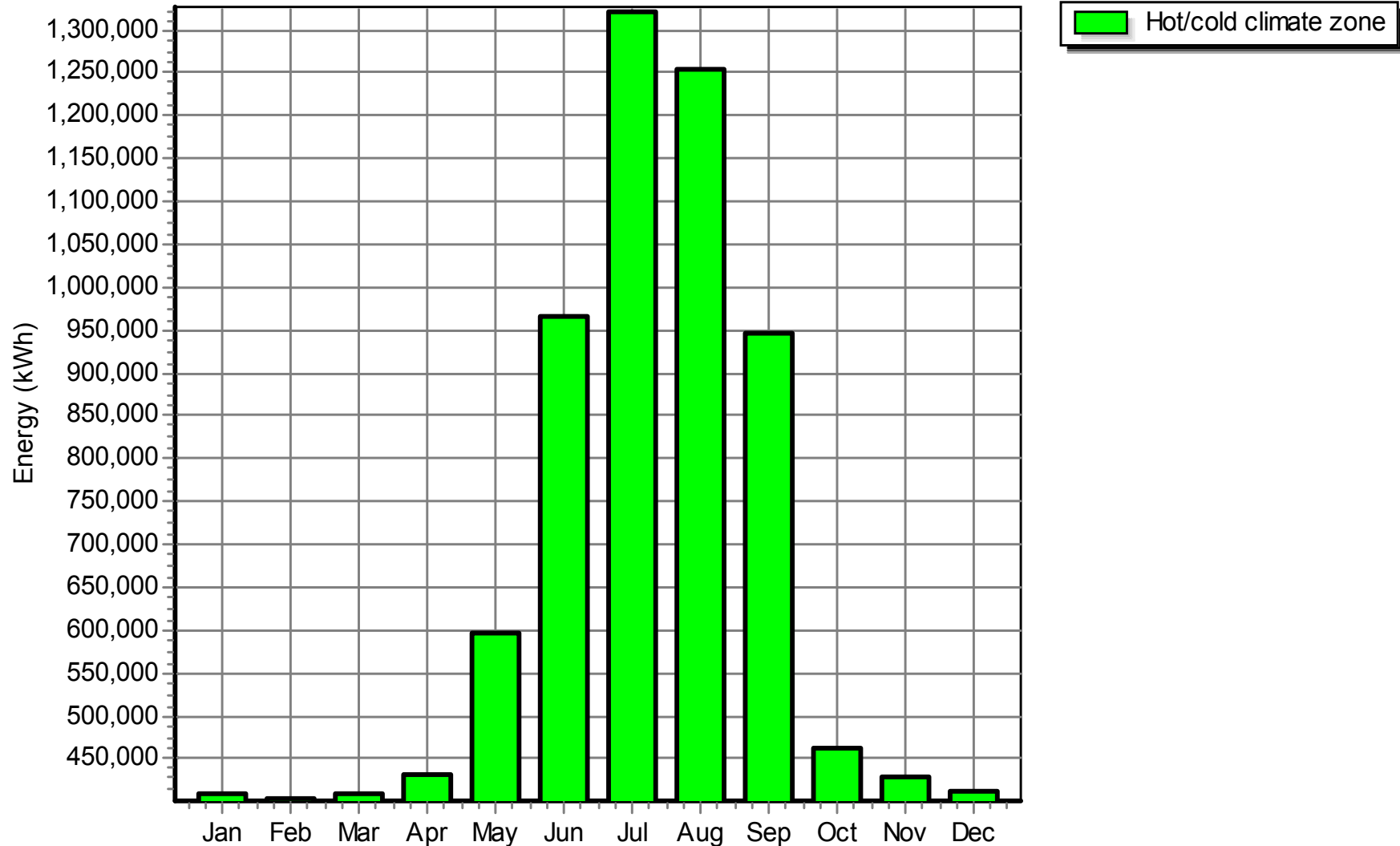
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Version 2.9.11
2/1/2010

Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



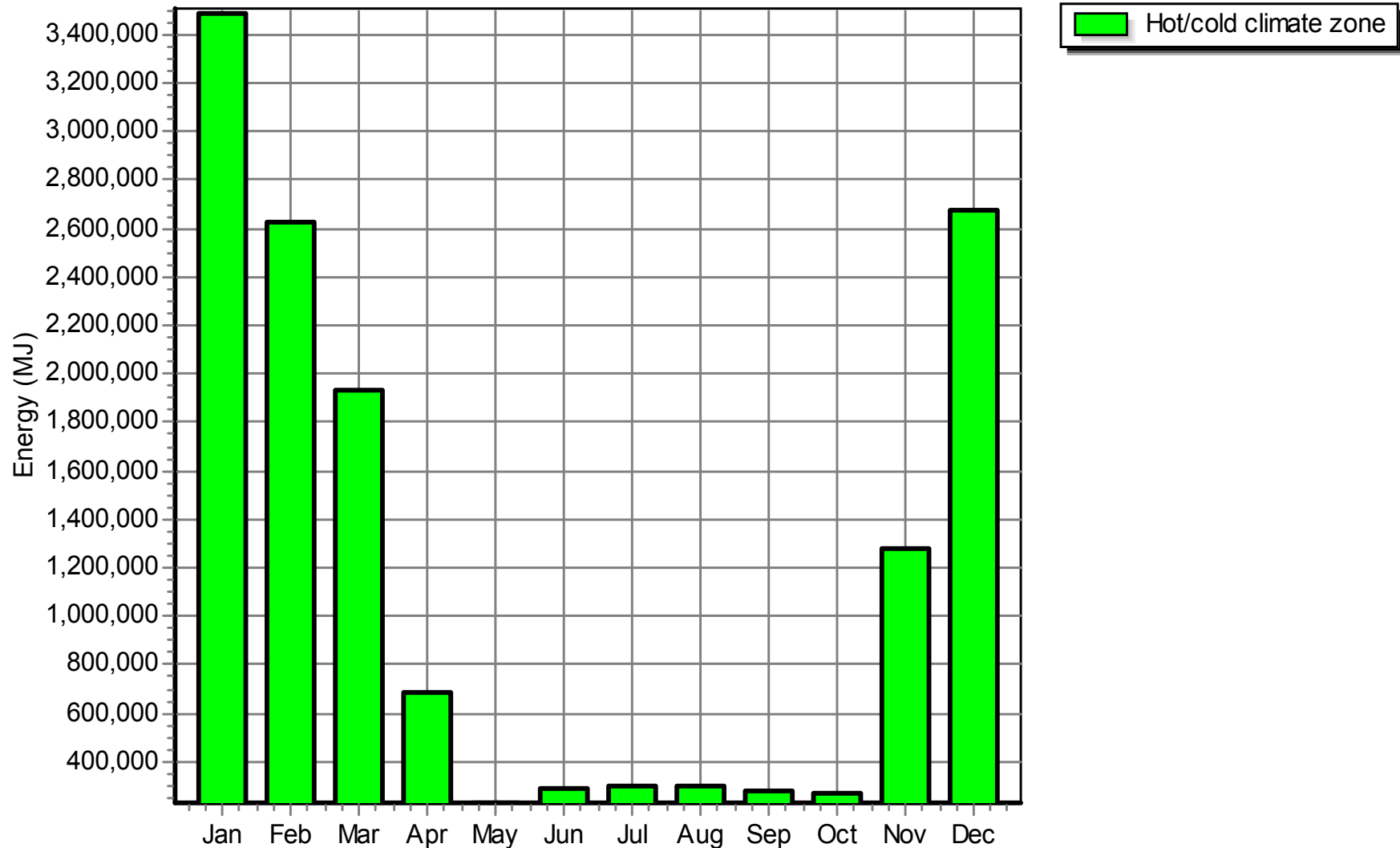
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CleanCalc
Clean Room Energy Simulation Analysis
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2/1/2010

Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



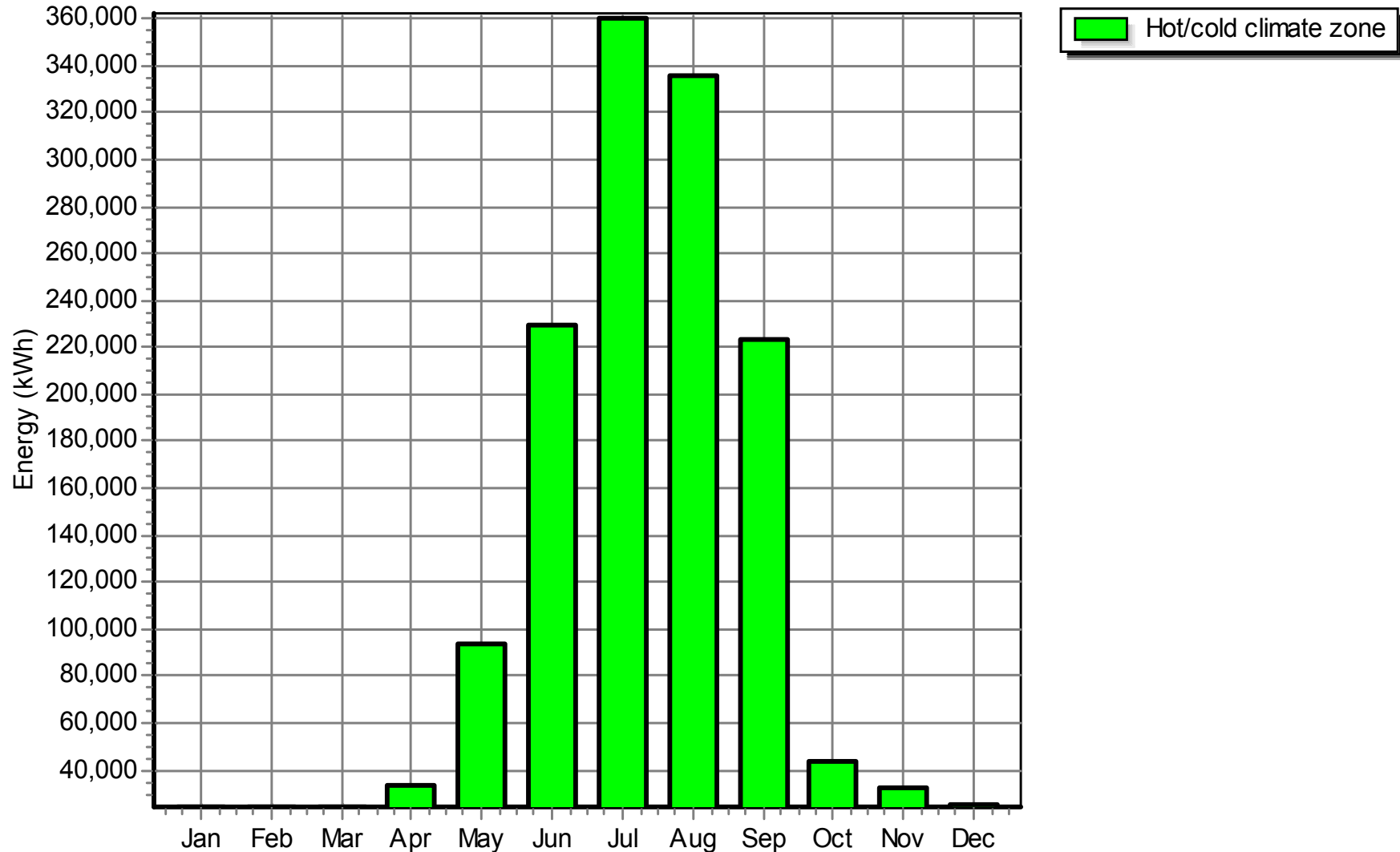
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Version 2.9.11
2/1/2010

Room TYPE: Dirty or Utility Sub-Fab

Room NAME: Dirty/Utility Sub-

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



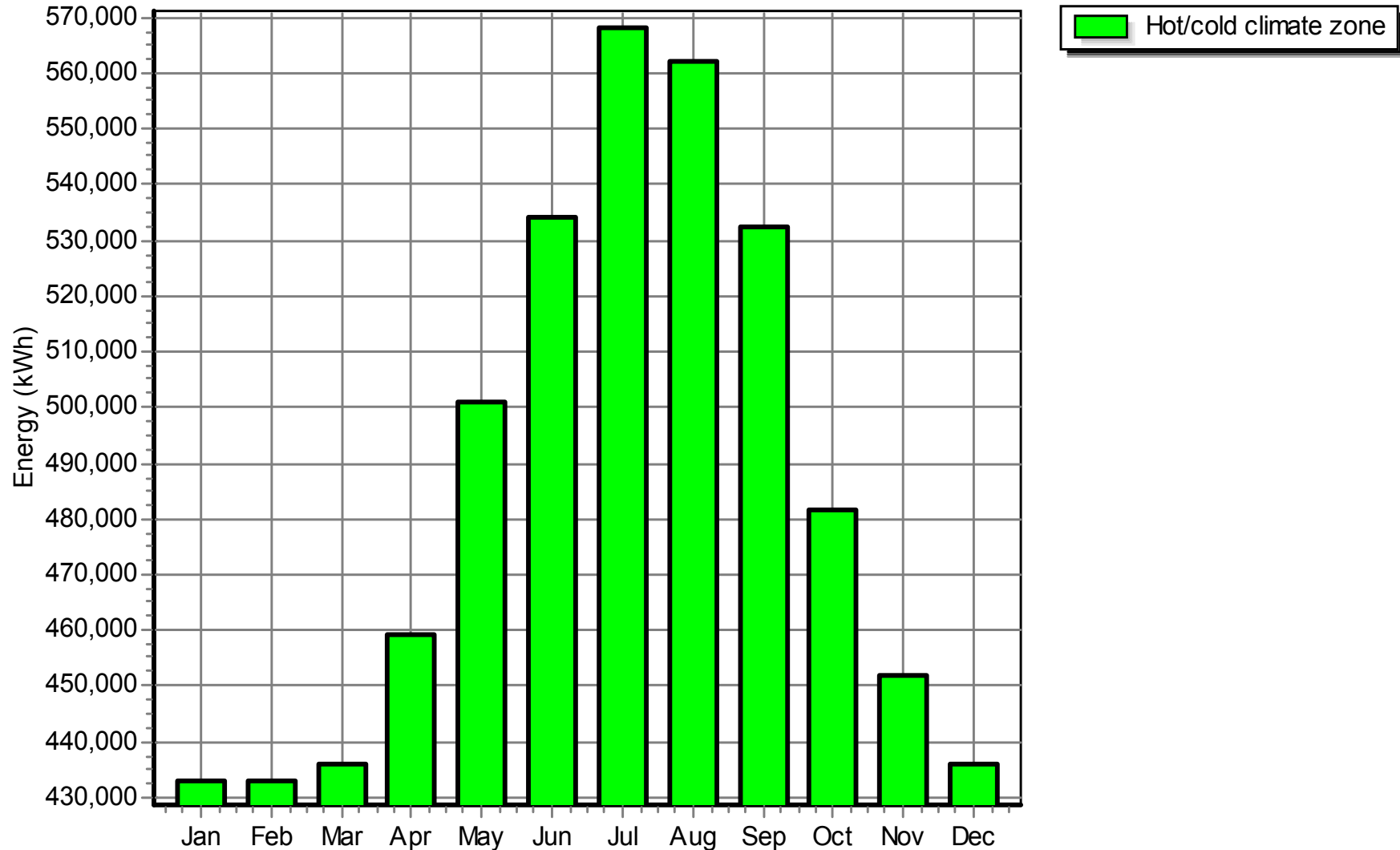
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Room TYPE: Clean Support

Room NAME: Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

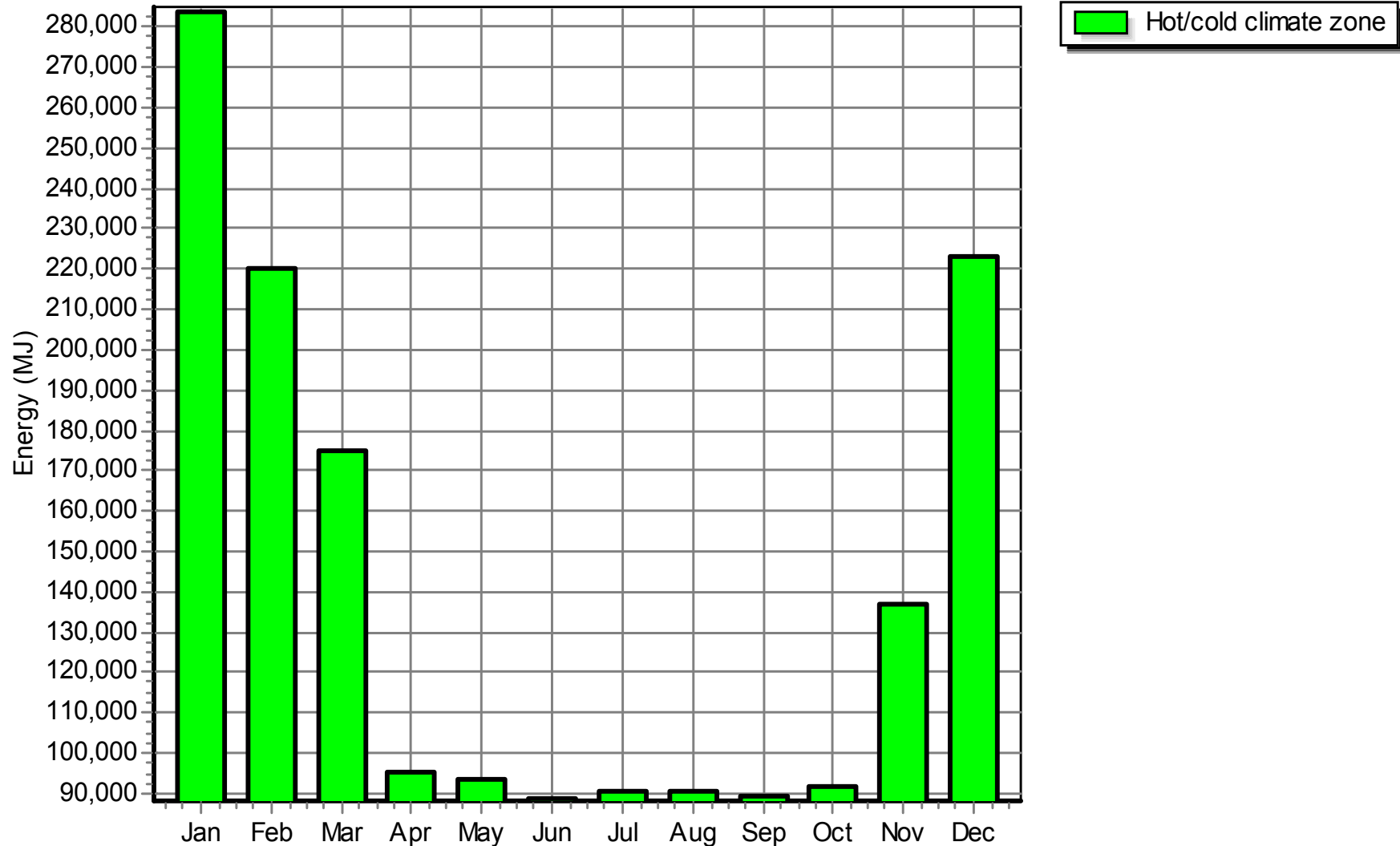


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CleanCalc
Clean Room Energy Simulation Analysis
Version 2.9.11
2/1/2010

Room TYPE: Clean Support Room NAME: Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



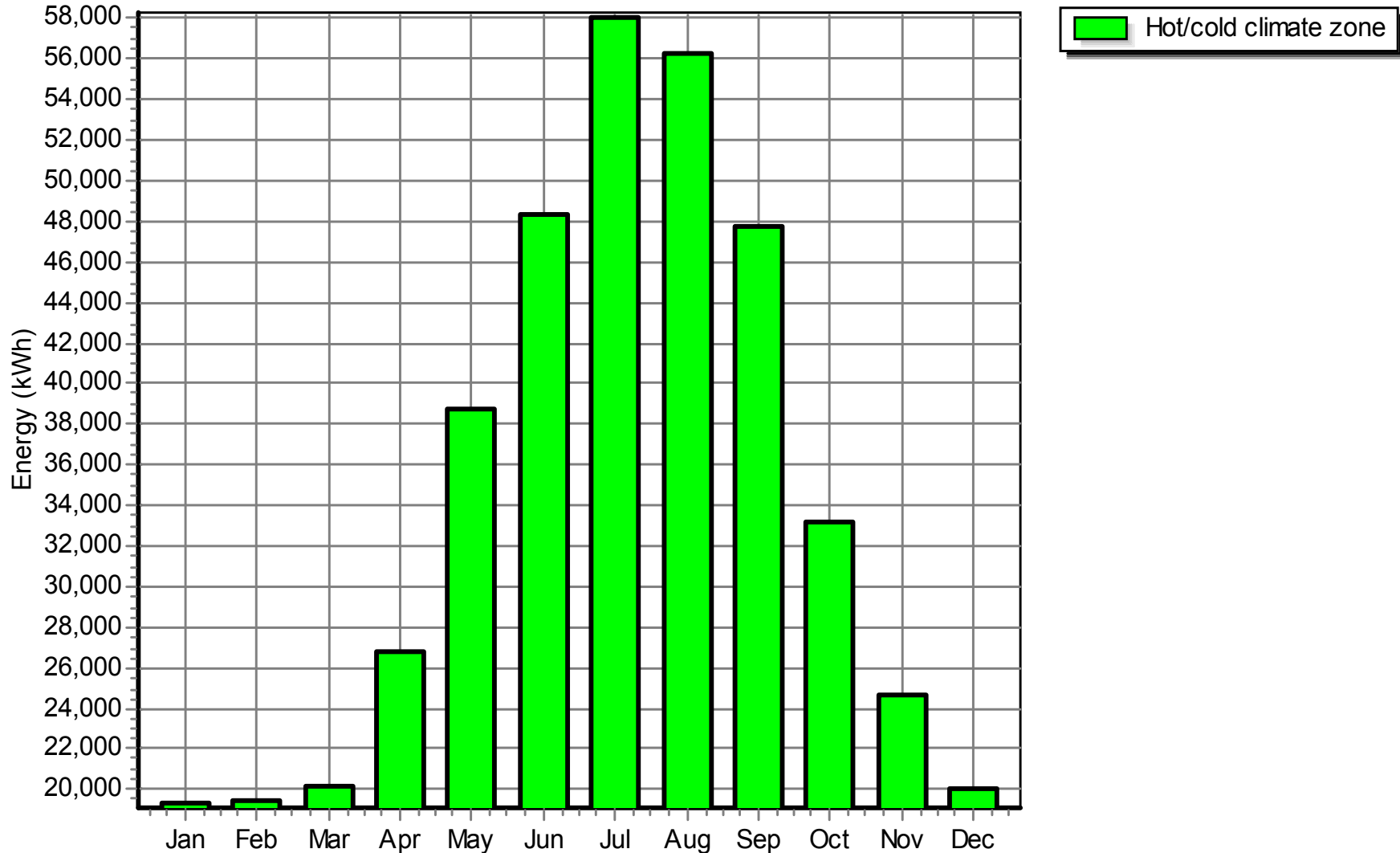
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Room TYPE: Clean Support

Room NAME: Clean Support

Total Annual Cooling Energy vs. Month By Simulation



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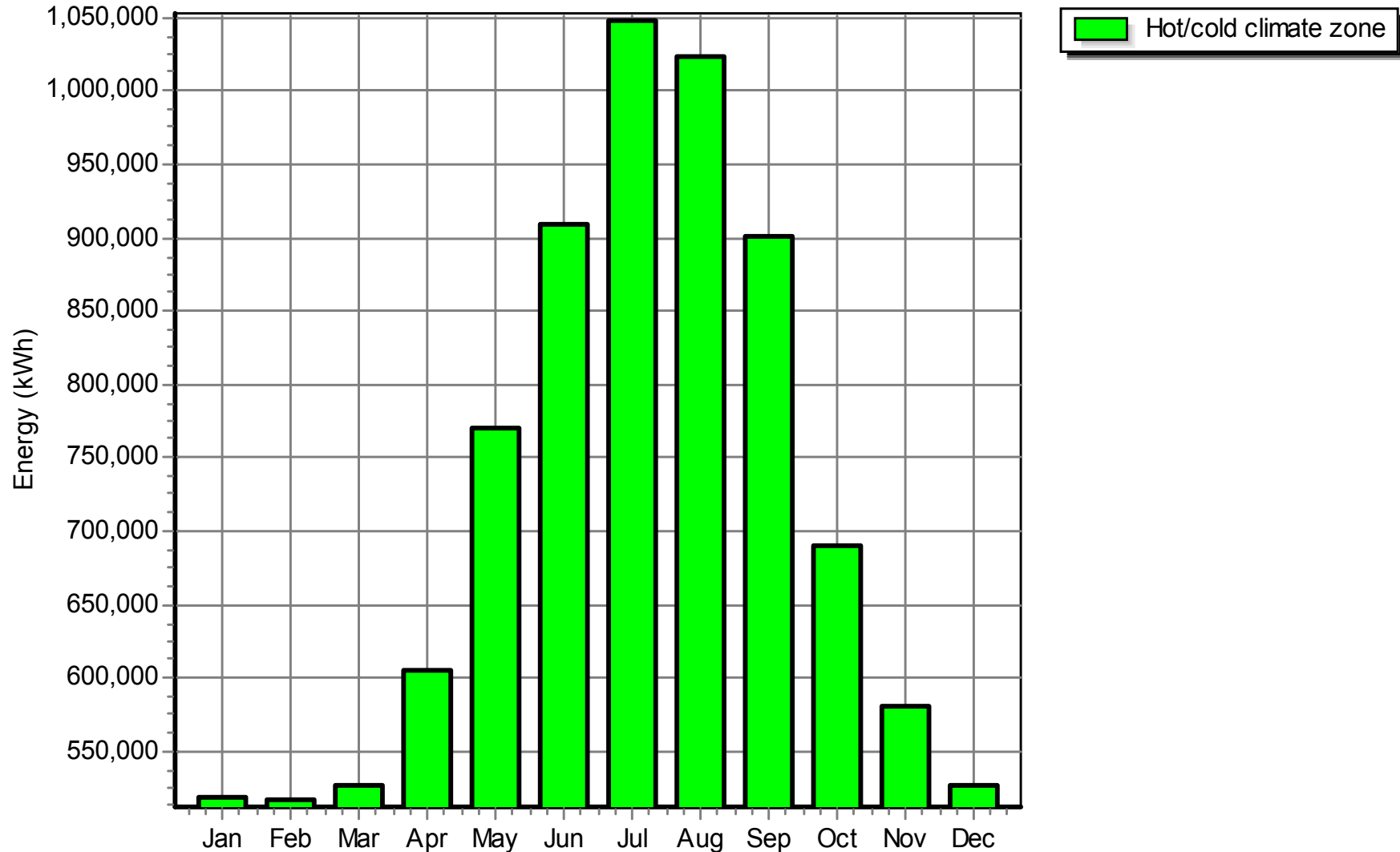
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Clean Room Energy Simulation Analysis
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2/1/2010

Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



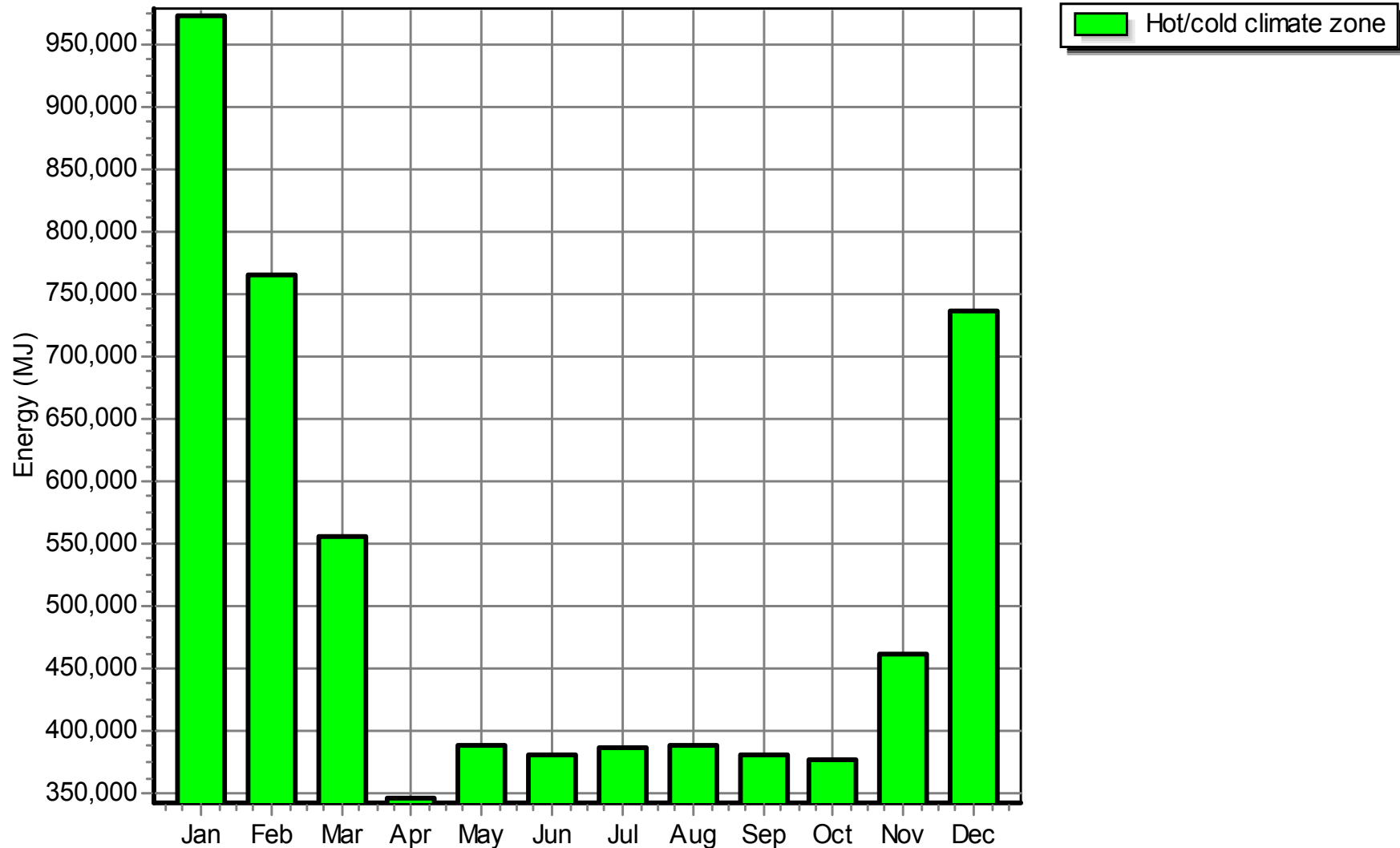
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Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



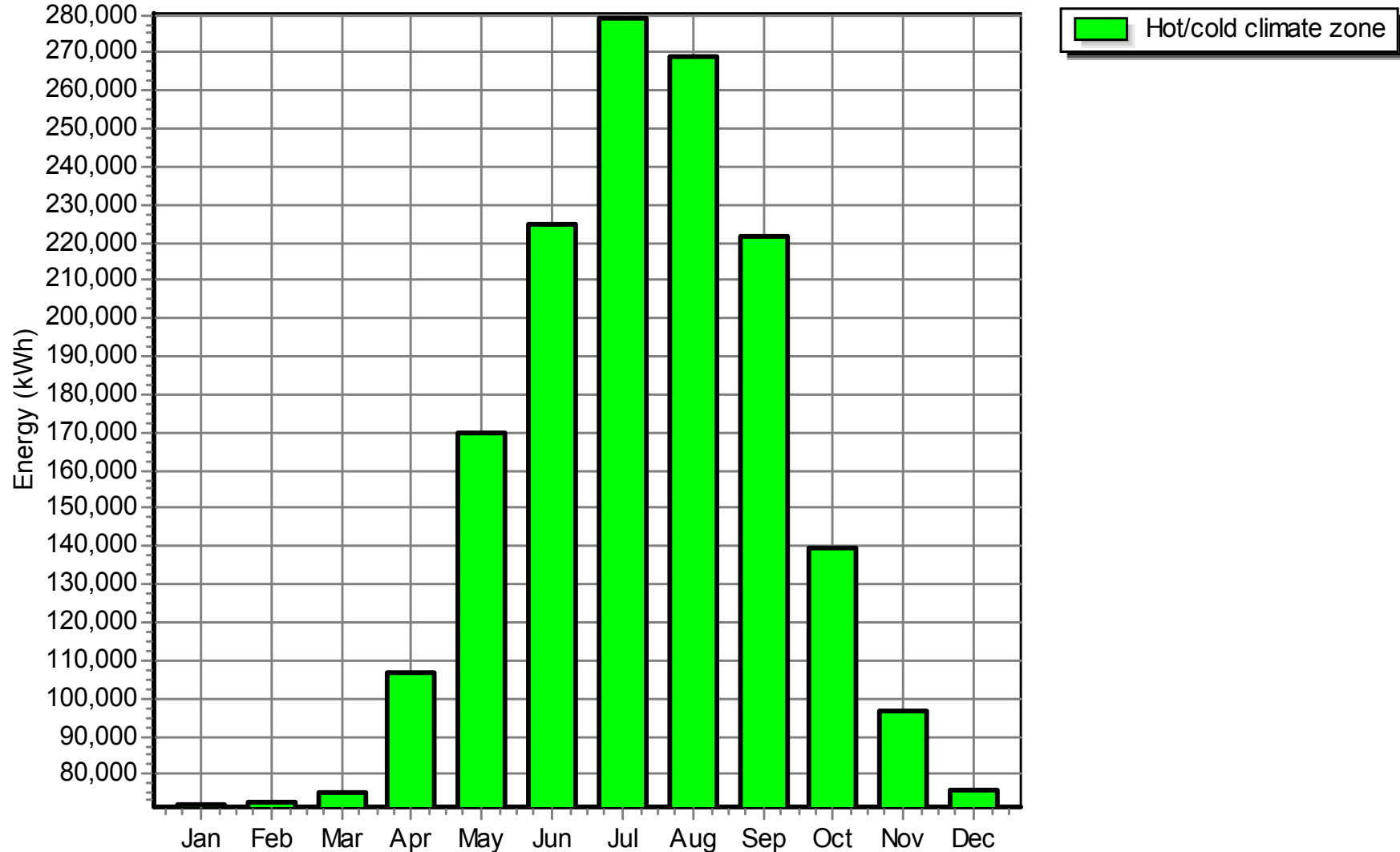
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Room TYPE: Non Clean Support

Room NAME: Non-Clean Support

Total Annual Cooling Energy vs. Month By Simulation



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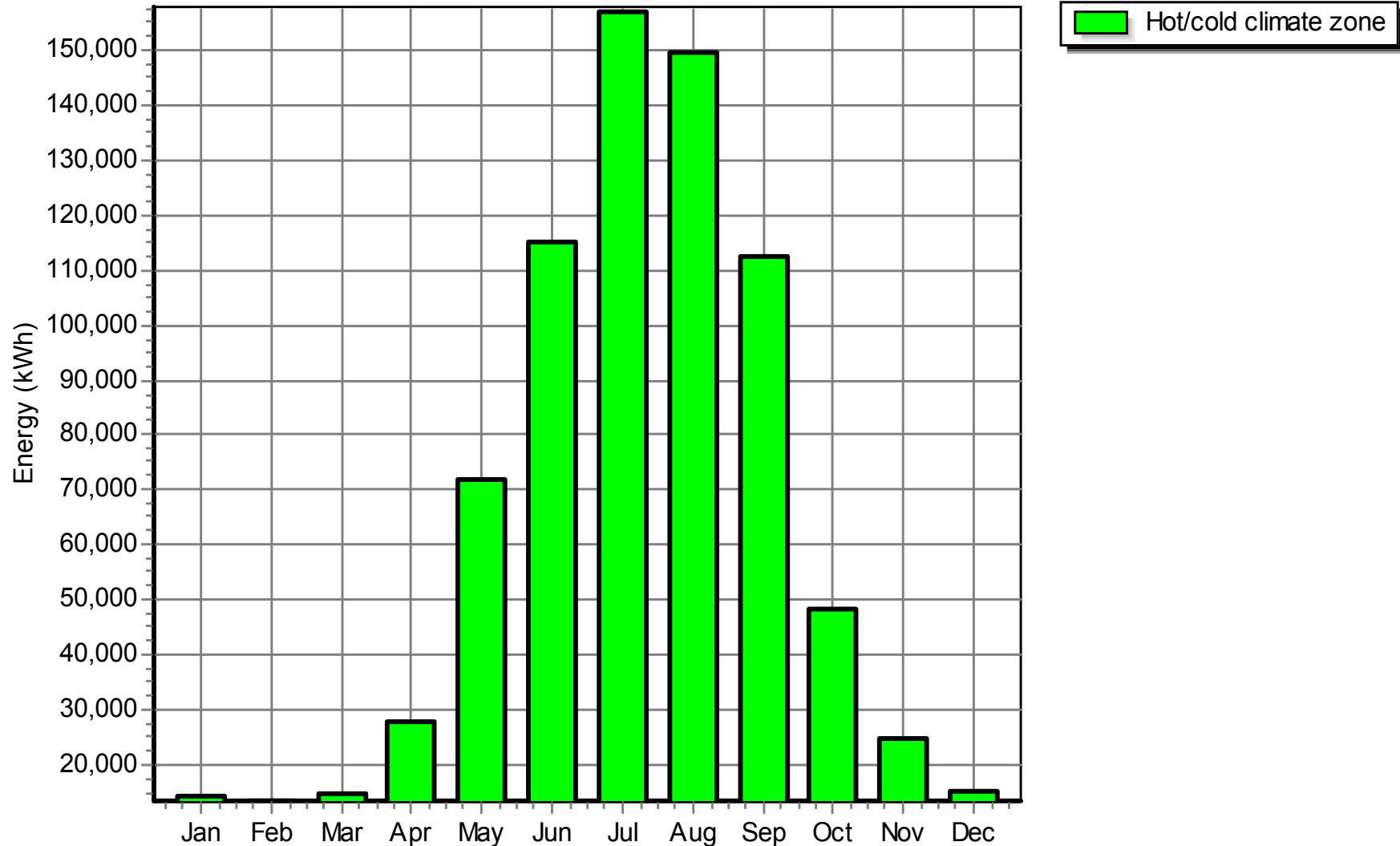
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2/1/2010

Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



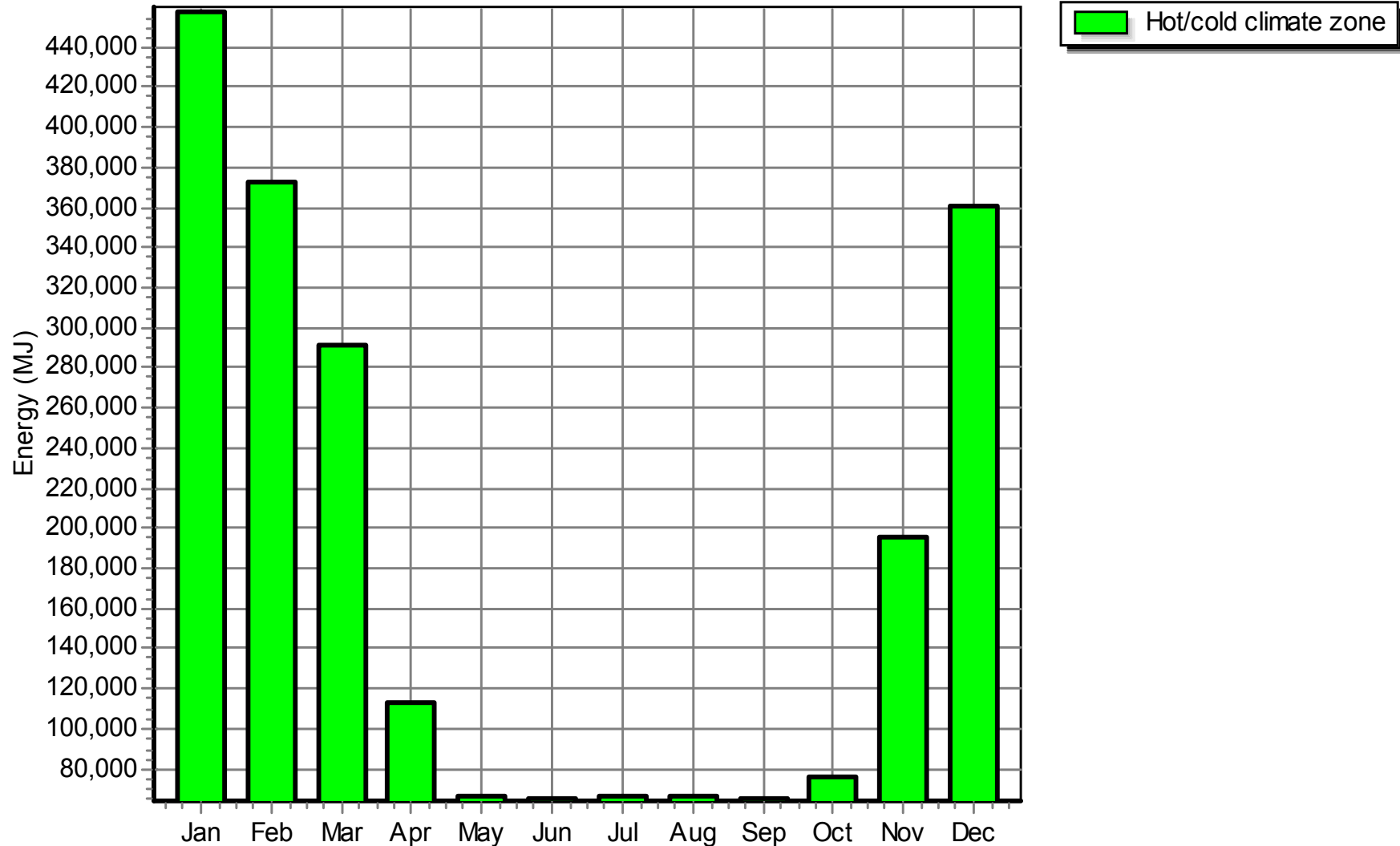
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Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



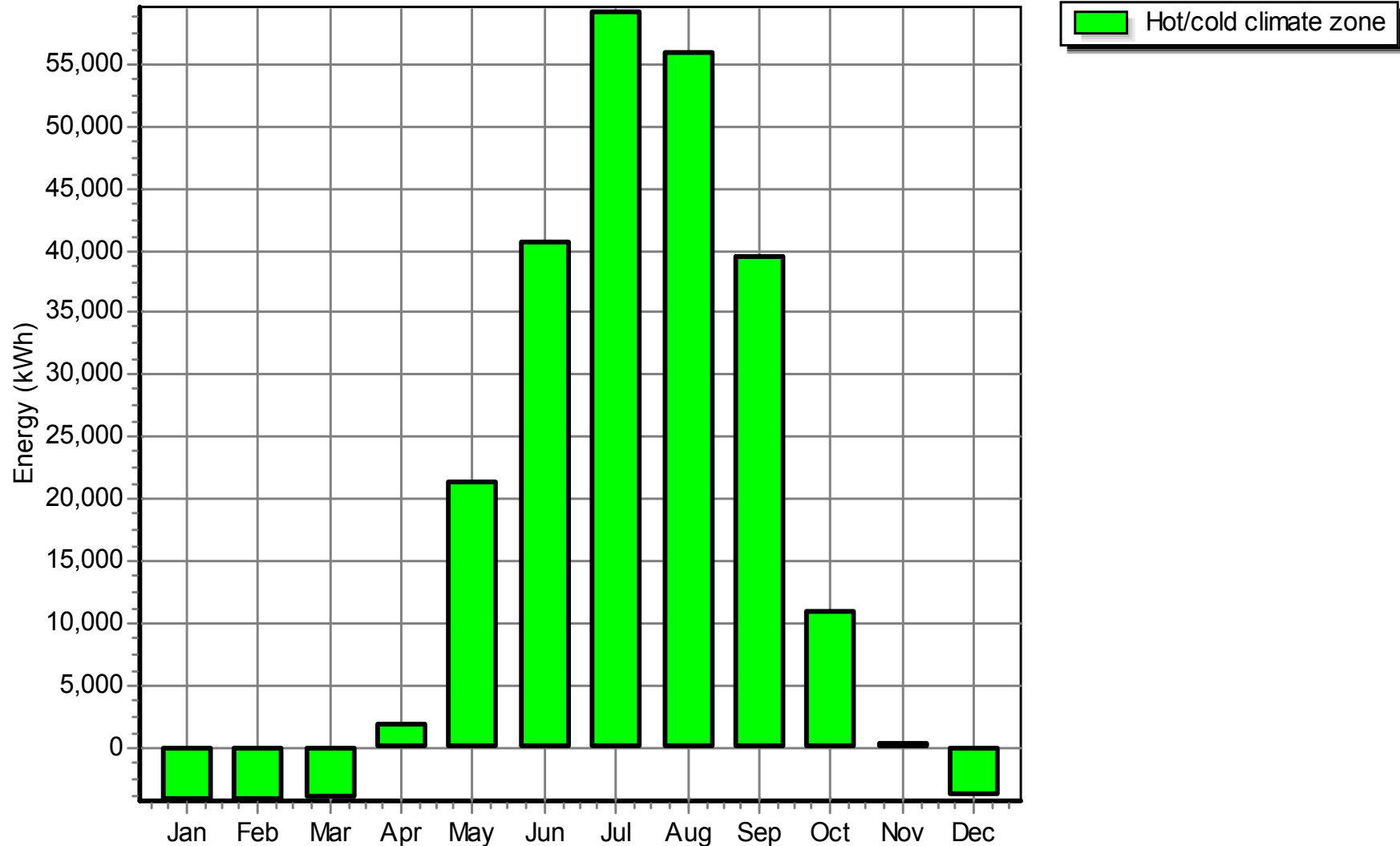
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CleanCalc
Clean Room Energy Simulation Analysis
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2/1/2010

Room TYPE: Bottle Gas Pad/Room

Room NAME: Bottle Gas

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



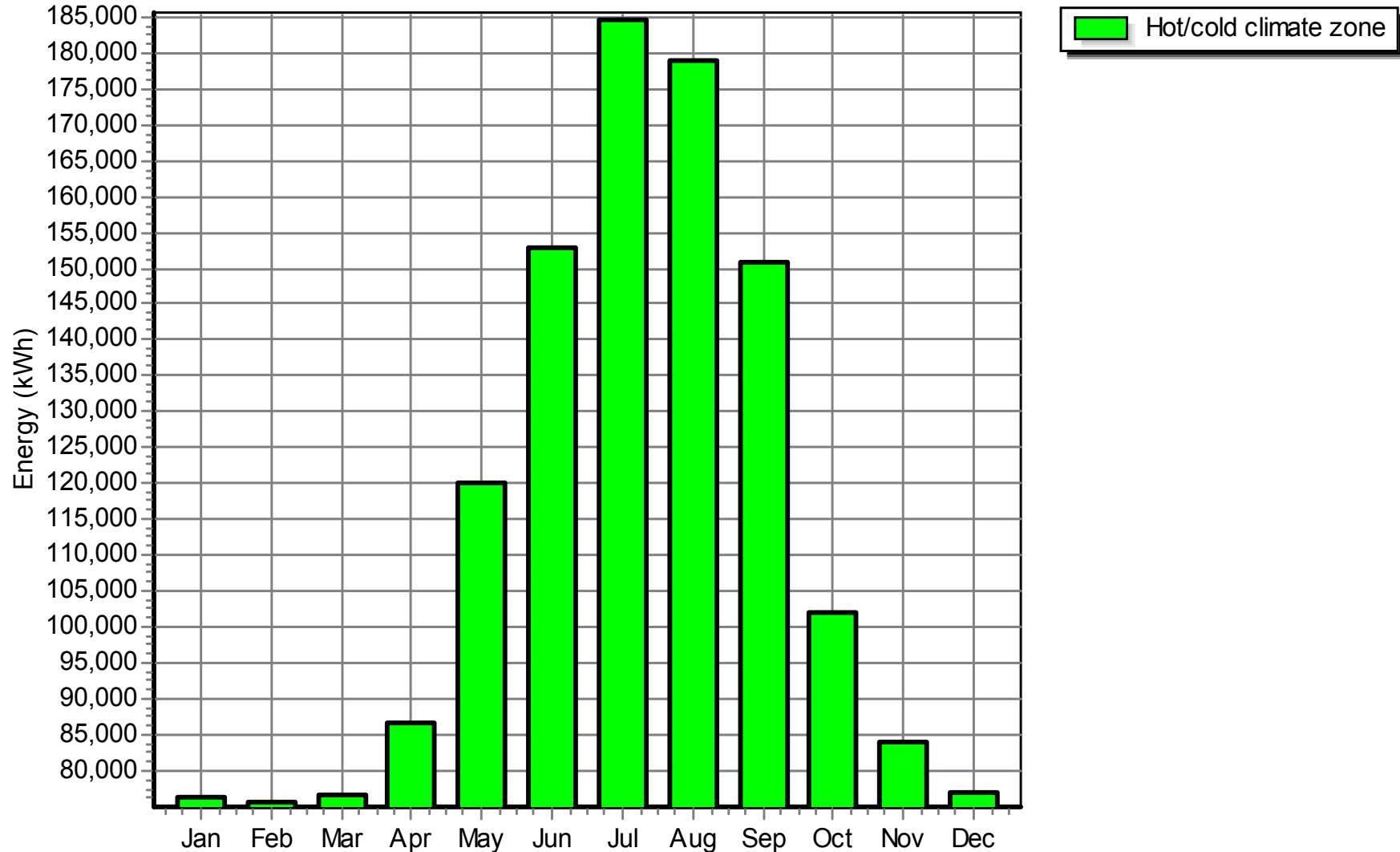
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



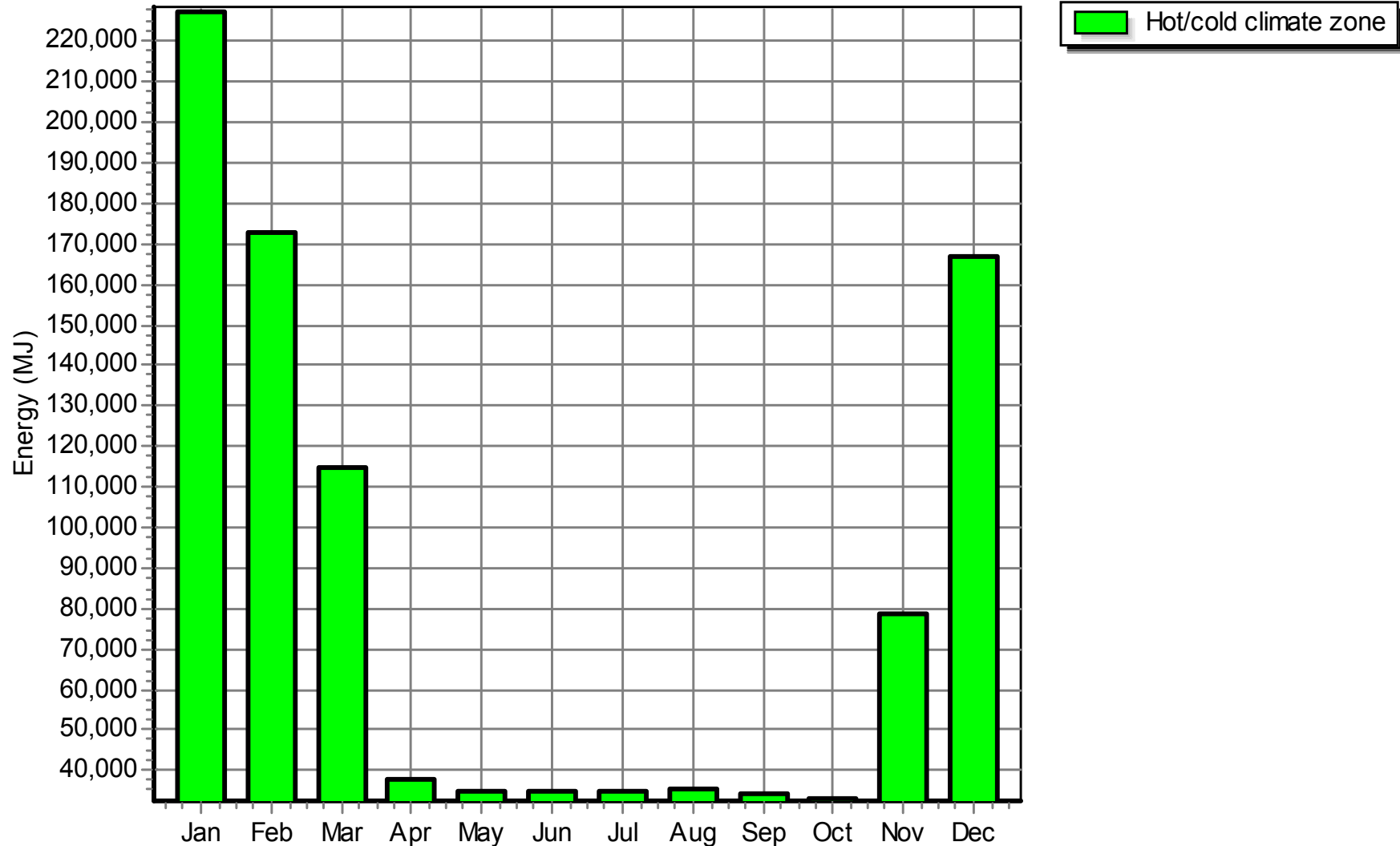
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



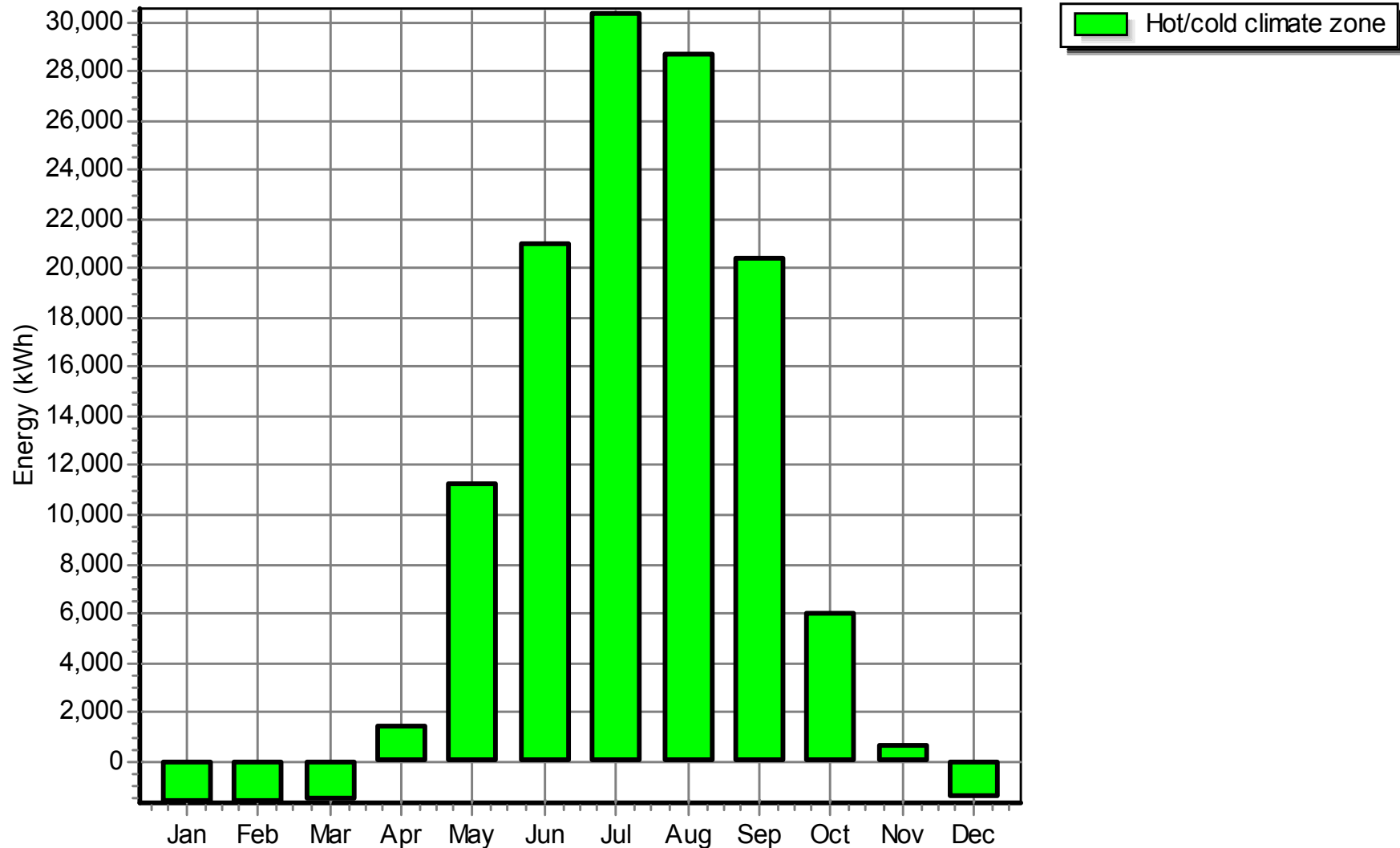
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Room TYPE: Chemical Dispense/Mix

Room NAME: Chemical

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



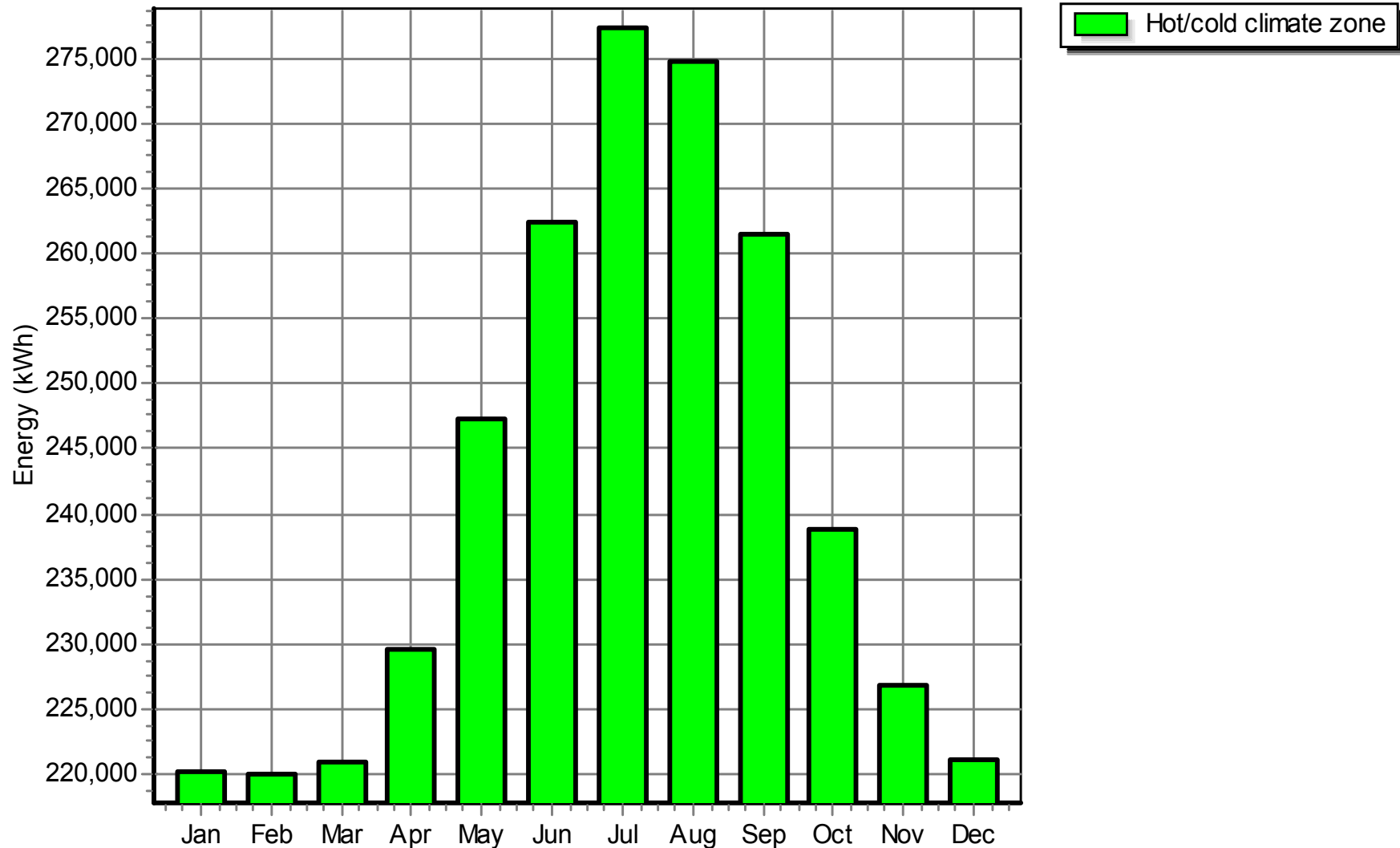
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Room TYPE: Computer Room

Room NAME: Computer Room

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

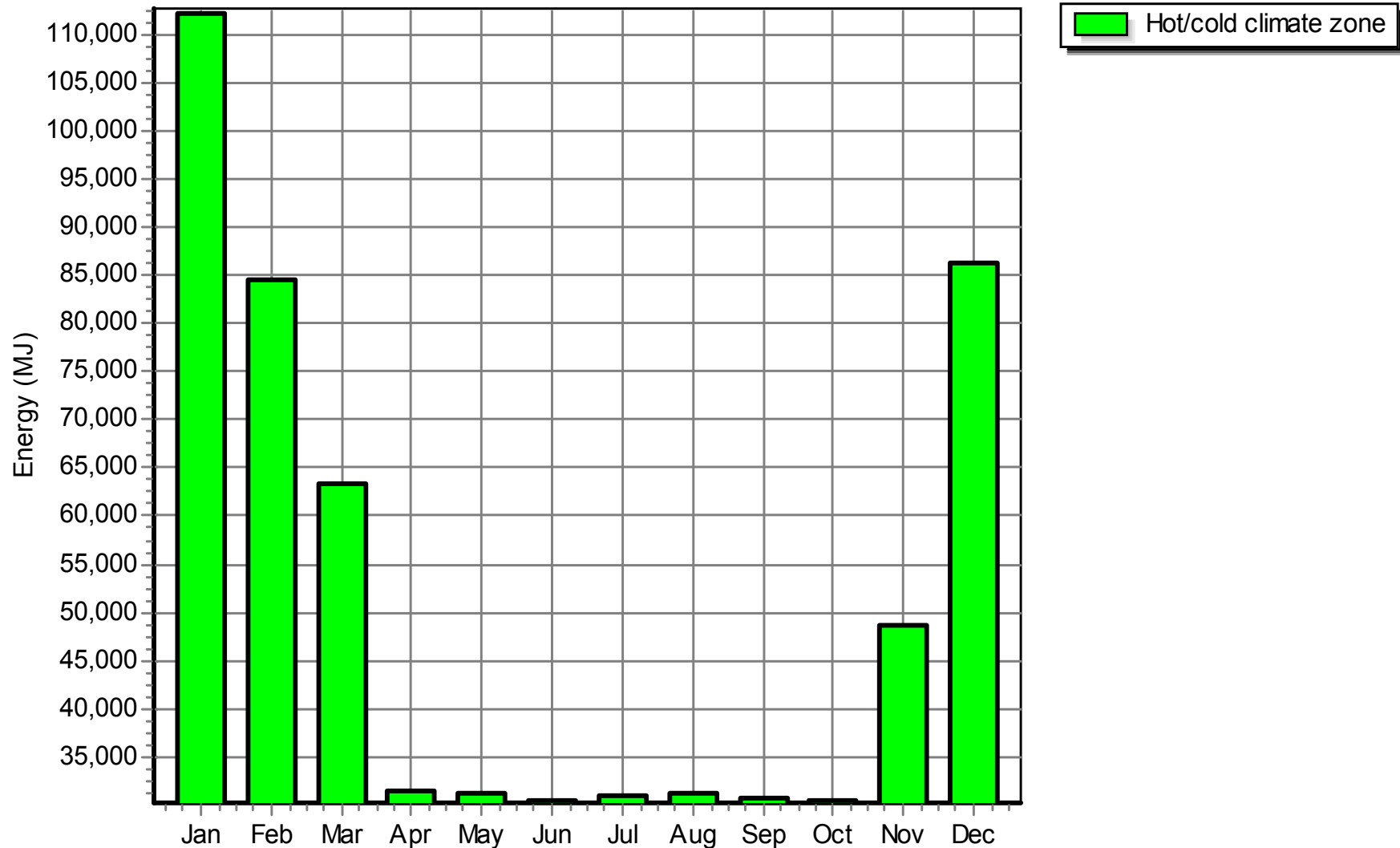


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Room TYPE: Computer Room Room NAME: Computer Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

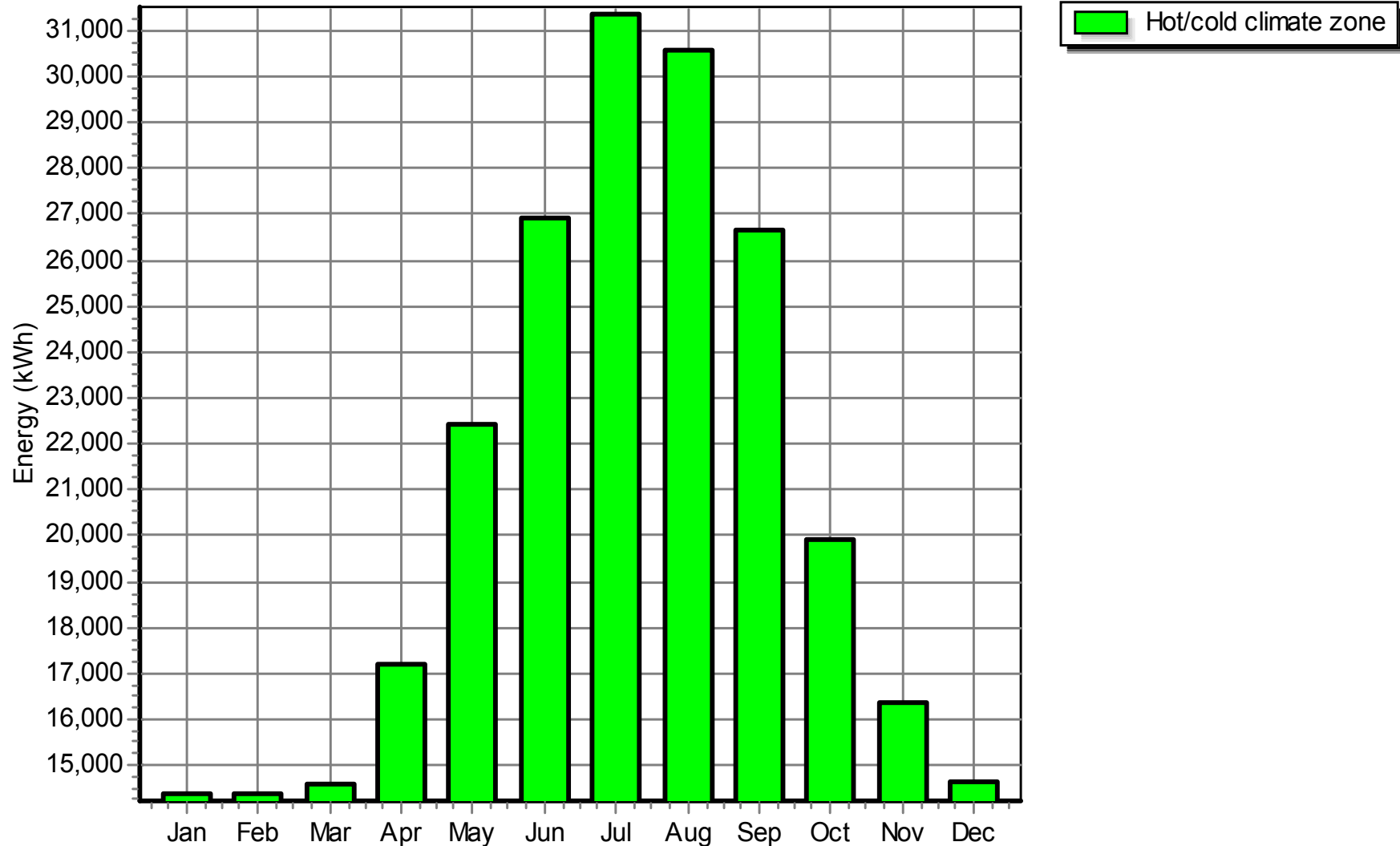


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Room TYPE: Computer Room Room NAME: Computer Room

Total Annual Cooling Energy vs. Month By Simulation



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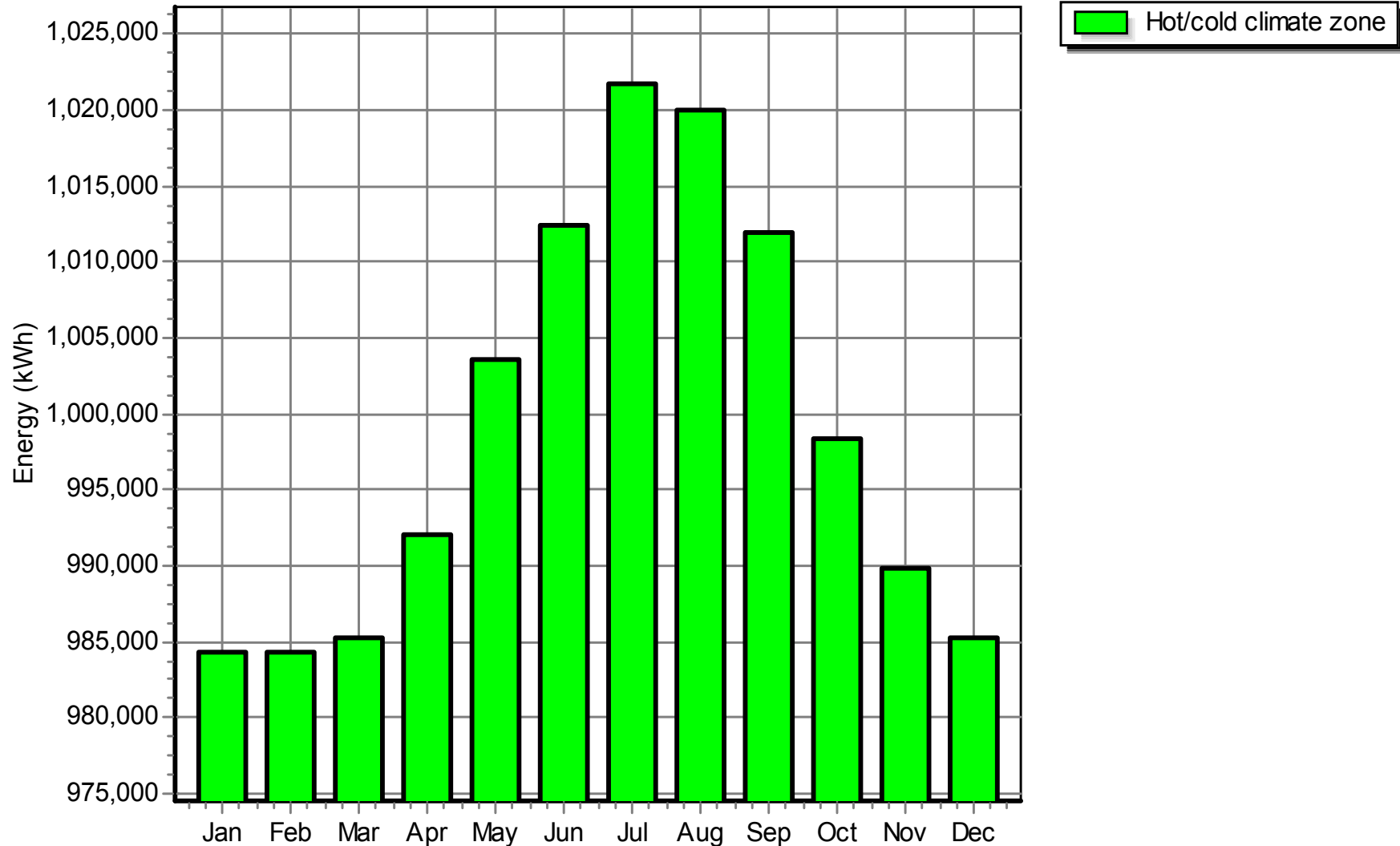
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



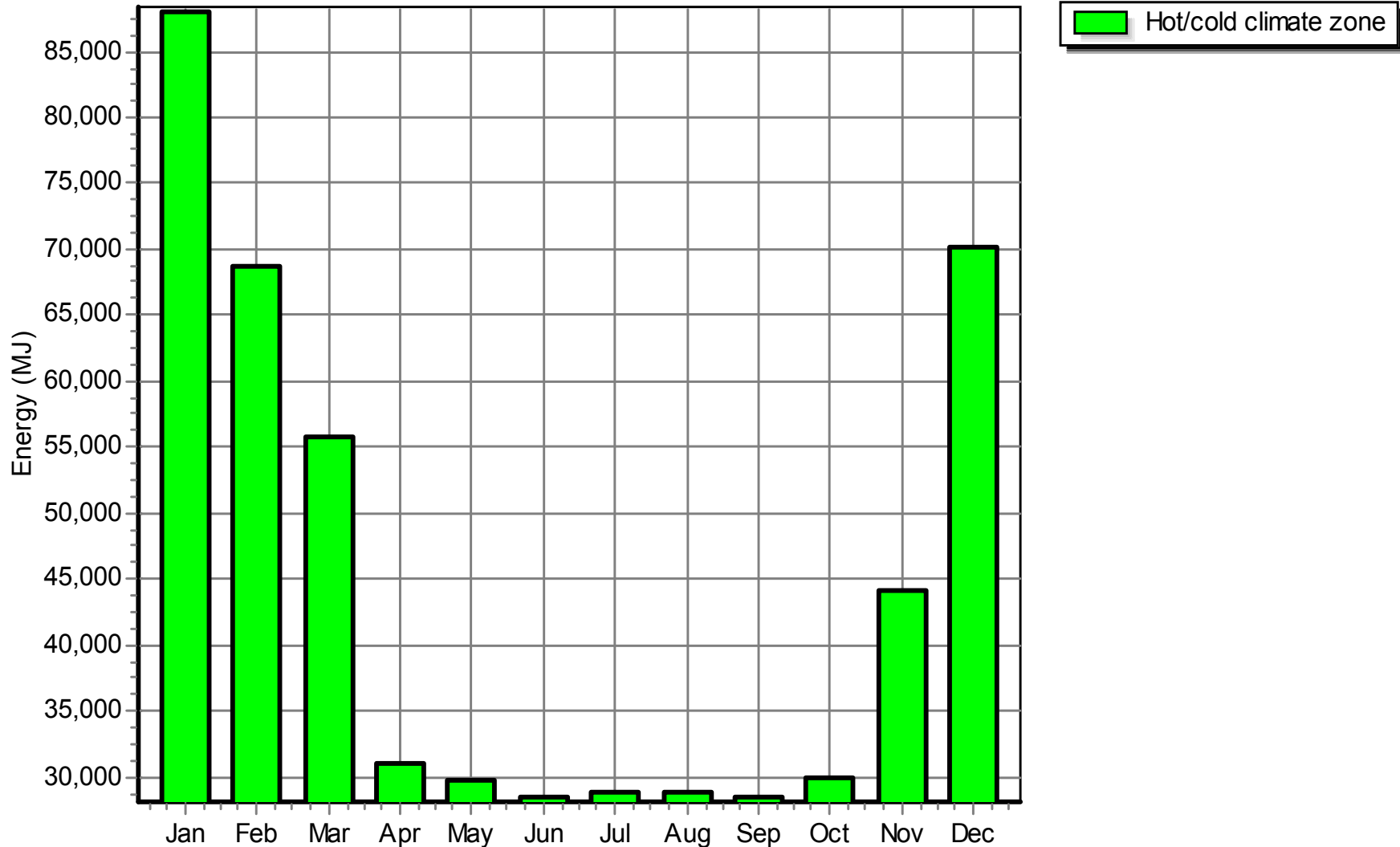
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual HVAC Fuel Energy vs. Month By Simulation



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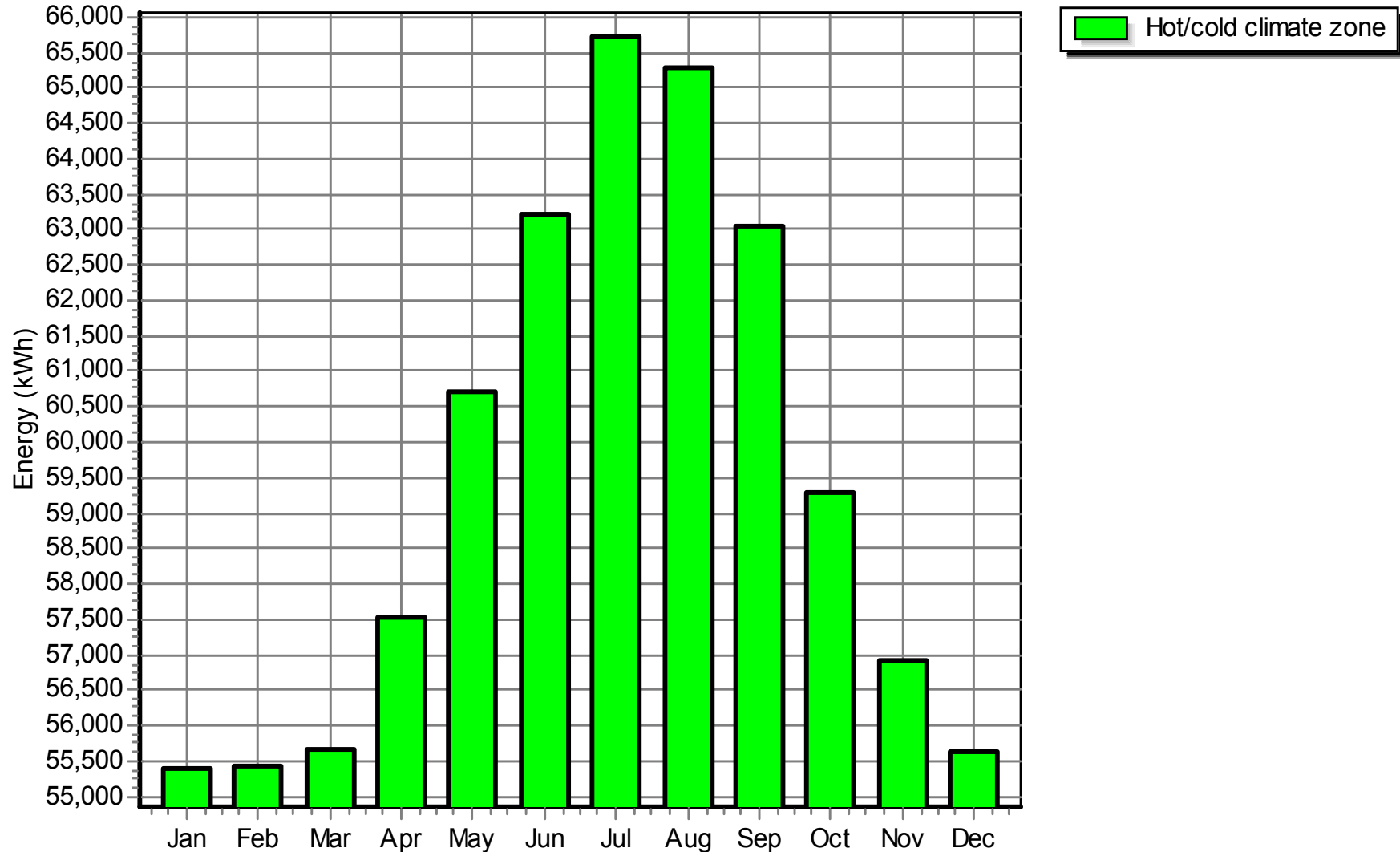
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Room TYPE: Test/Sort/Probe

Room NAME: Test/Sort/Probe

Total Annual Cooling Energy vs. Month By Simulation



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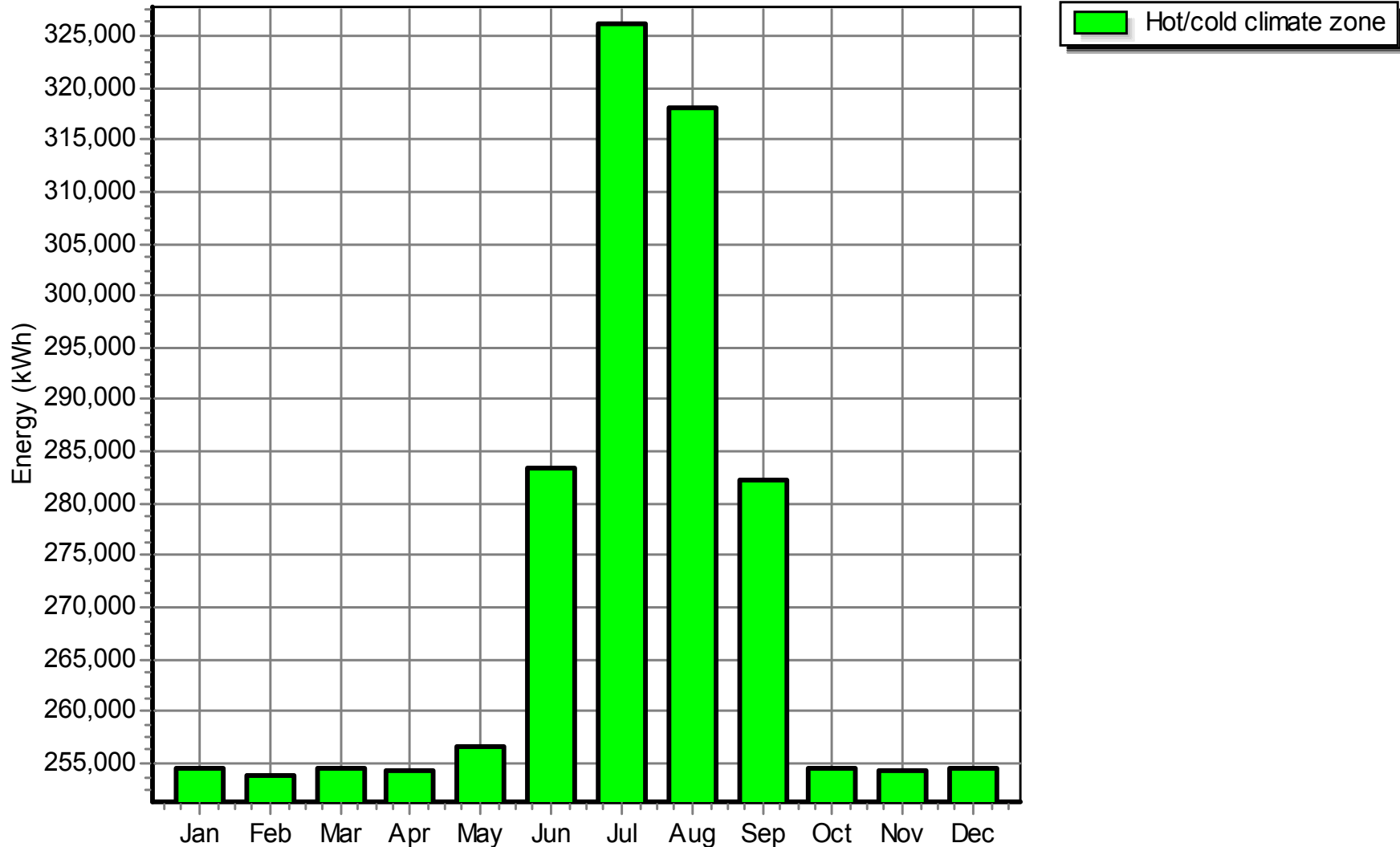


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

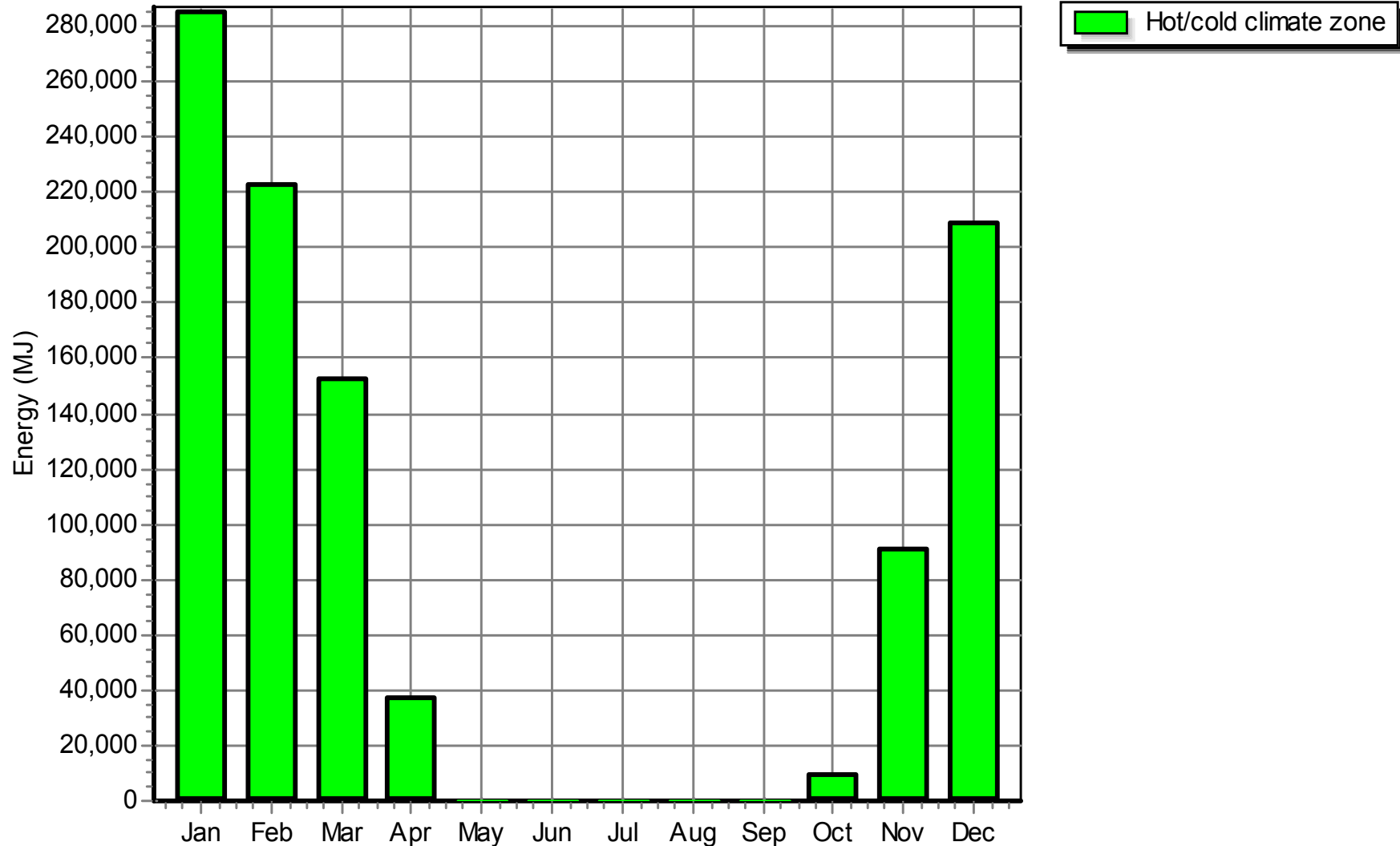


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



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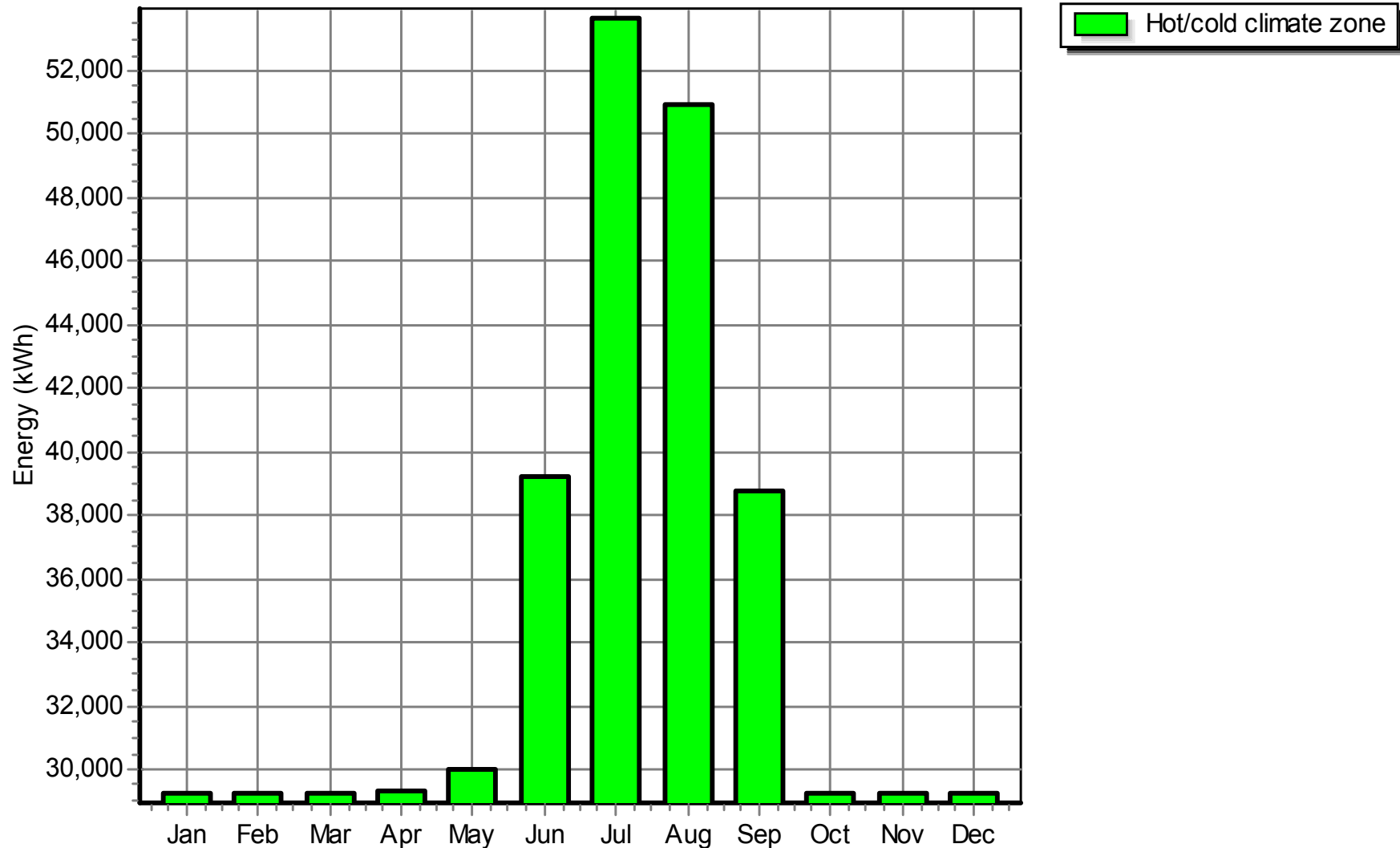


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Room TYPE: Chiller Plant Room NAME: Chiller Plant

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

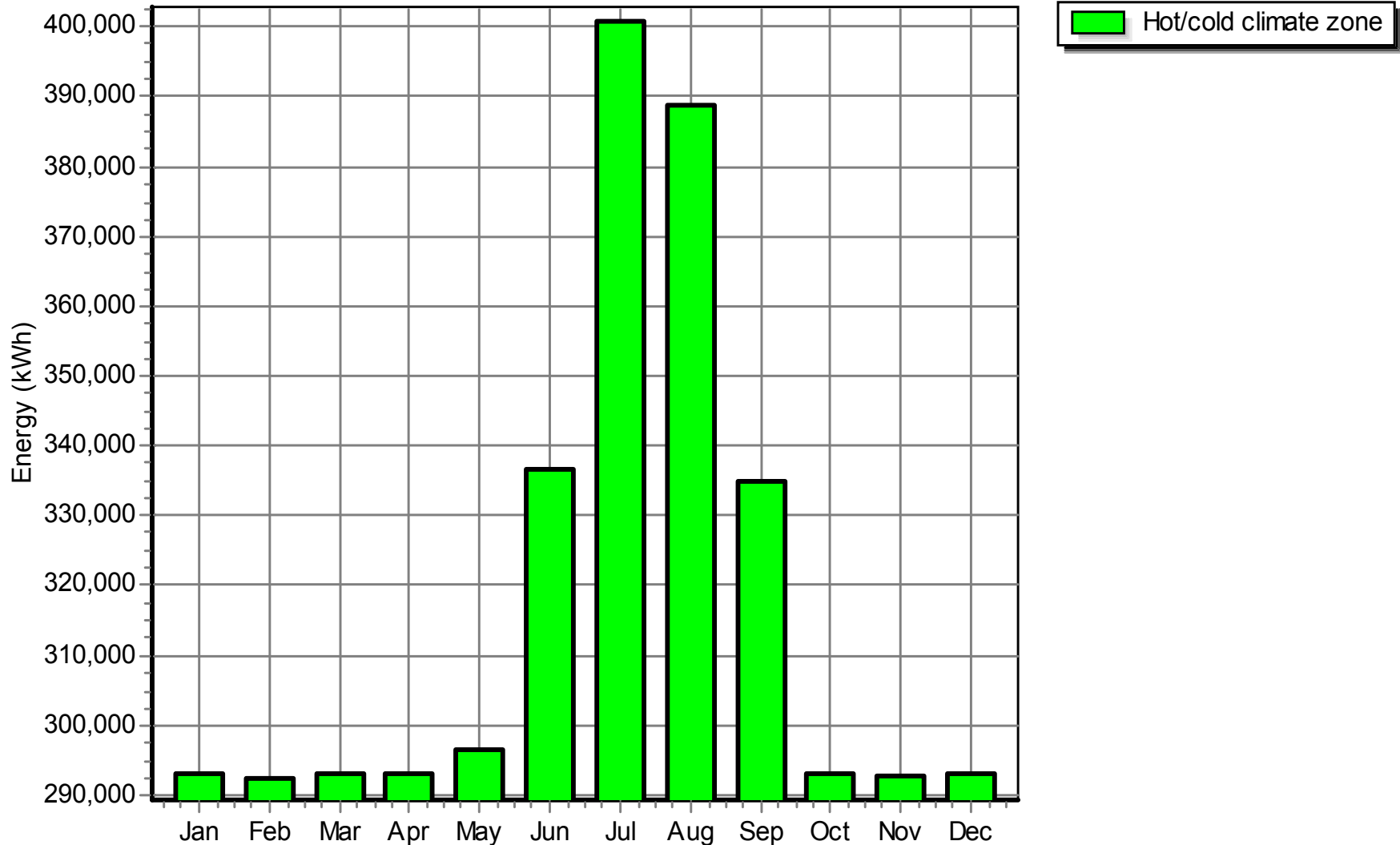


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Room TYPE: UPW Plant Room NAME: UPW Plant

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



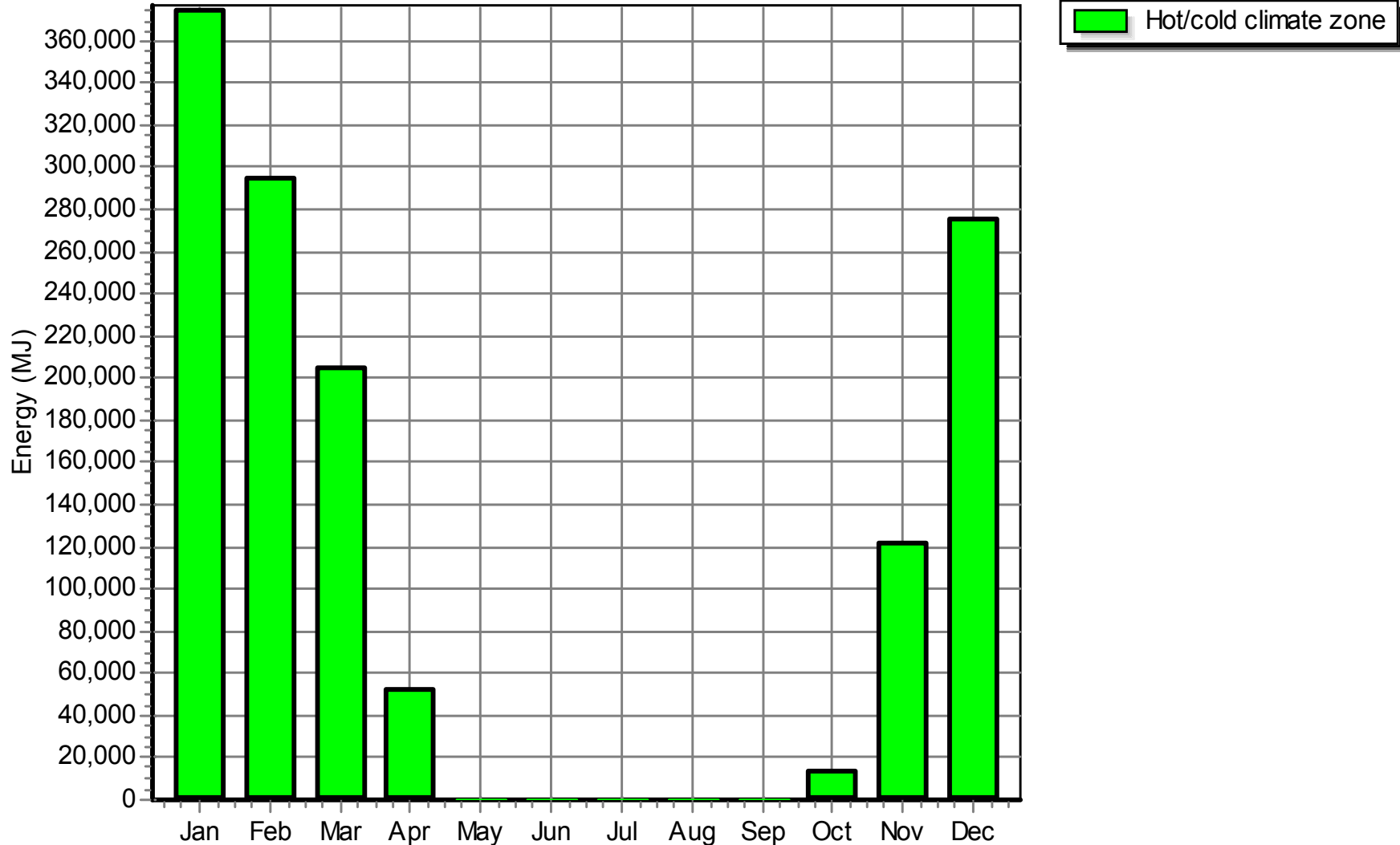
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2/1/2010

Room TYPE: UPW Plant

Room NAME: UPW Plant

Total Annual HVAC Fuel Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



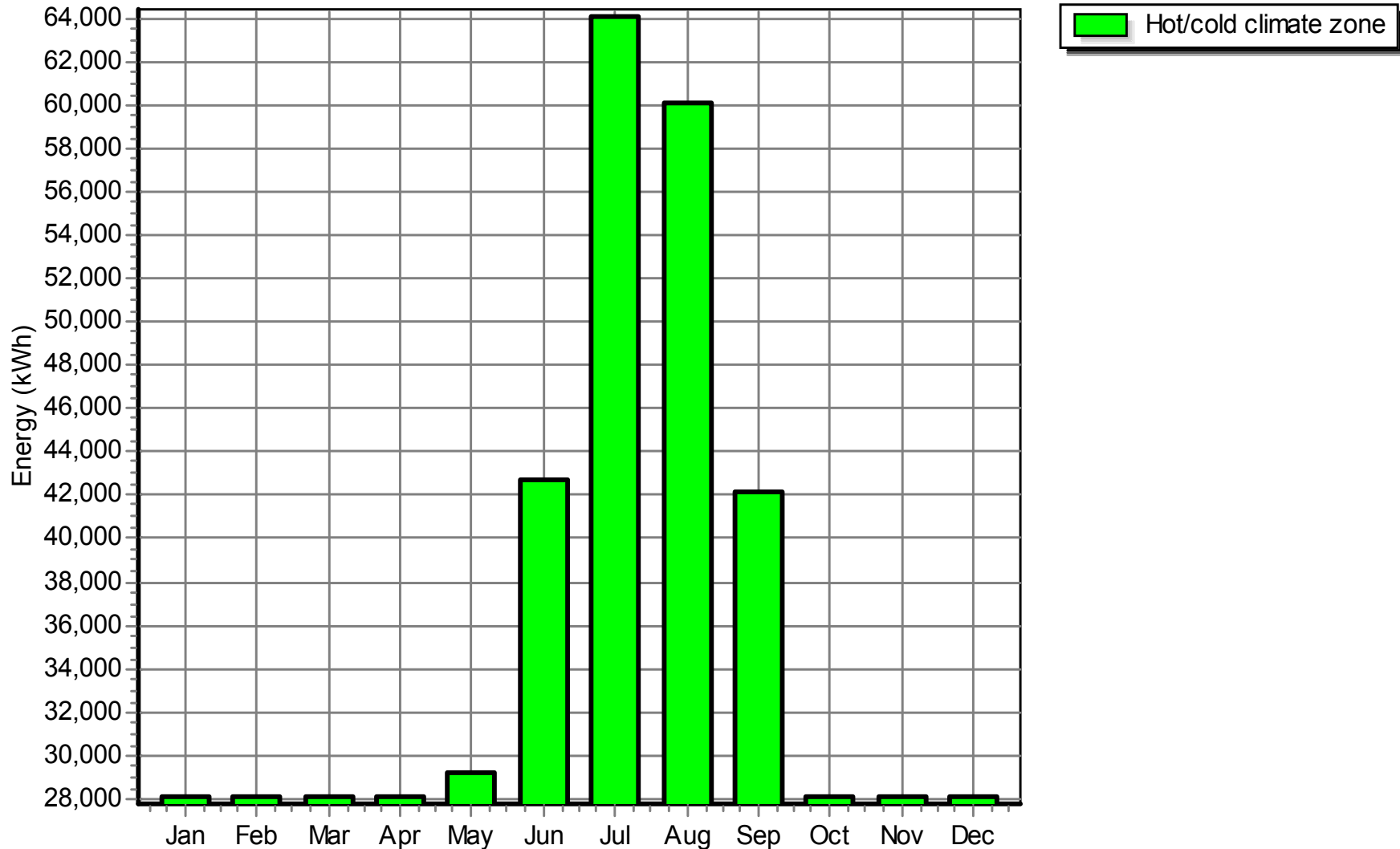
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2/1/2010

Room TYPE: UPW Plant

Room NAME: UPW Plant

Total Annual Cooling Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.

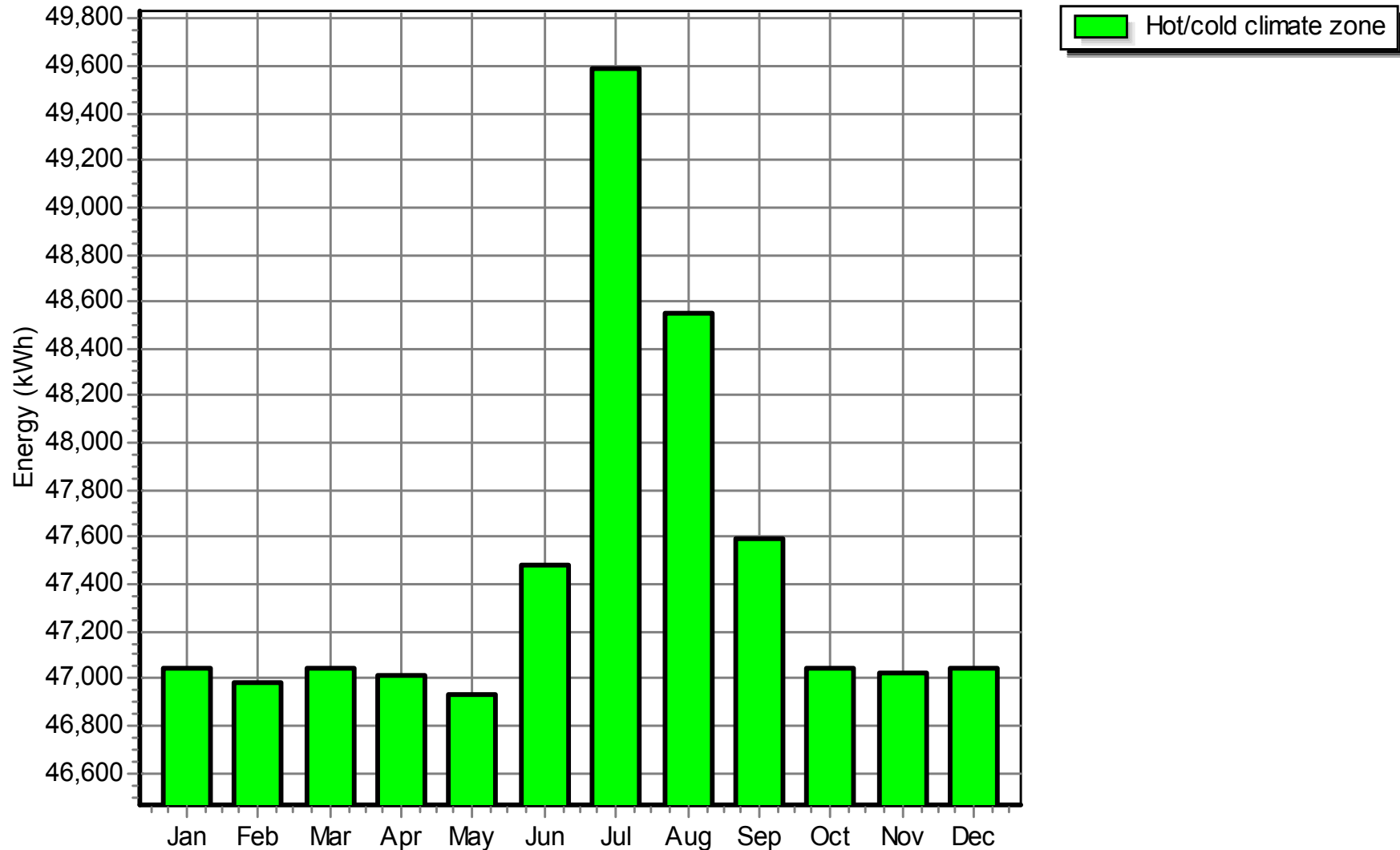


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Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Electric Energy vs. Month By Simulation



Note: Output values are estimates only and actual results may vary.



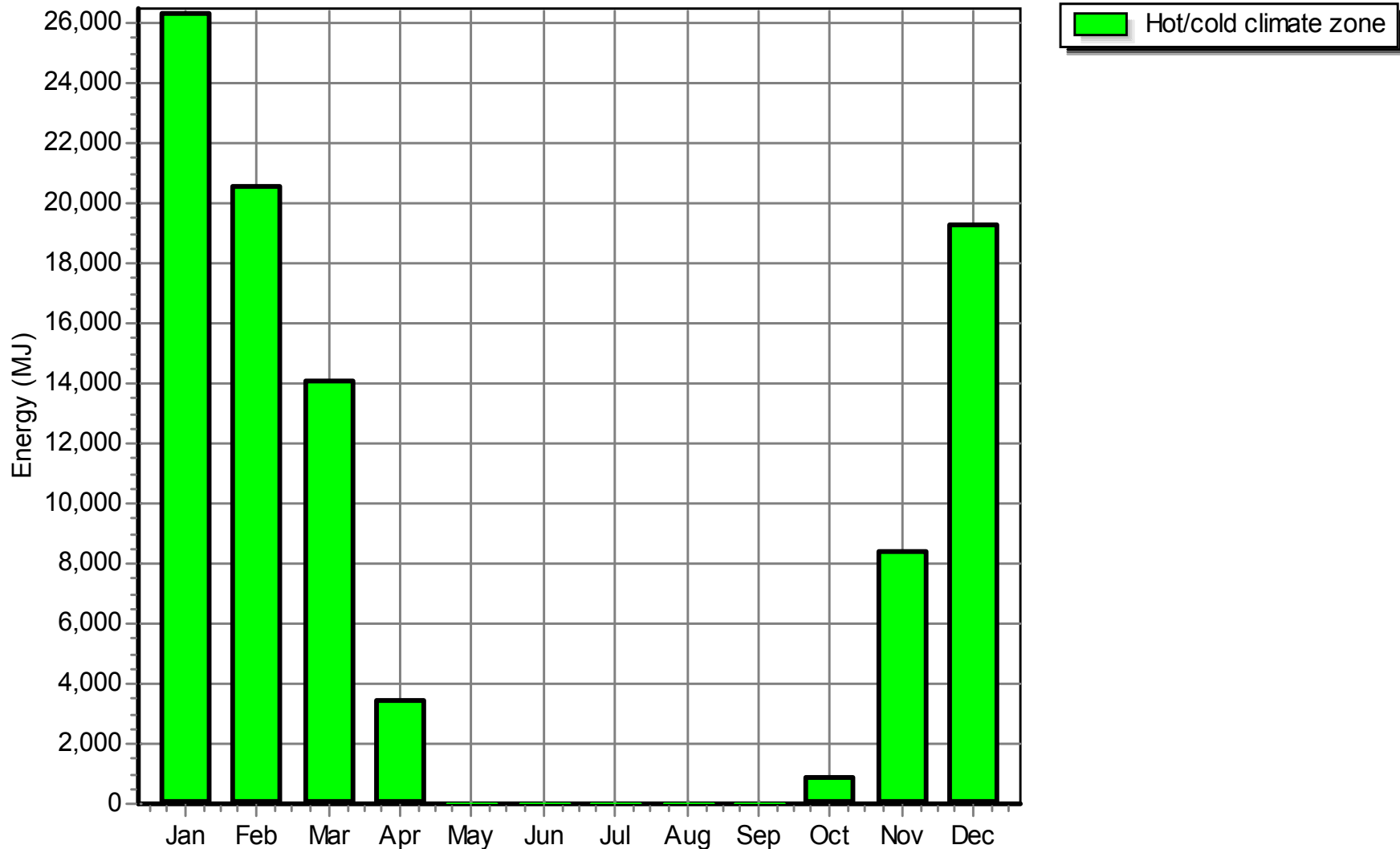
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Room TYPE: Boiler Room

Room NAME: Boiler Room

Total Annual HVAC Fuel Energy vs. Month By Simulation



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Room TYPE: Boiler Room Room NAME: Boiler Room

Total Annual Cooling Energy vs. Month By Simulation

