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Appendix G

IPL Technical and Economic Potential

This Appendix presents the cumulative technical and economic potential for both electric and natural gas energy efficiency in IPL's service area from 2014 through 2023. The electric economic potential has been updated from the 2014–2023 Assessment of Energy and Capacity Savings in Iowa (the Assessment) based IPL's on new avoided costs. Technical potential remains the same as the Assessment, but is included here for completeness and ease of comparison. Natural gas technical and economic potential remains the same as the Assessment. The following sections present these potentials by fuel, sector, customer segment, and end use.

Electric Potential

Table 1. Electric Potential Summary

Sector	Baseline Sales (GWh)	Technical Potential (GWh)	Economic Potential	Economic Potential (Percent of Baseline)	Economic Potential (Percent of Technical)
Residential	3,852	1,486	1,108	29%	75%
Commercial	3,969	1,377	1,132	29%	82%
Industrial	7,644	977	859	11%	88%
Total	15,465	3,840	3,099	20%	81%

Technical Potential

Figure 1. Residential Electric Technical Energy Efficiency Potential by Dwelling Type

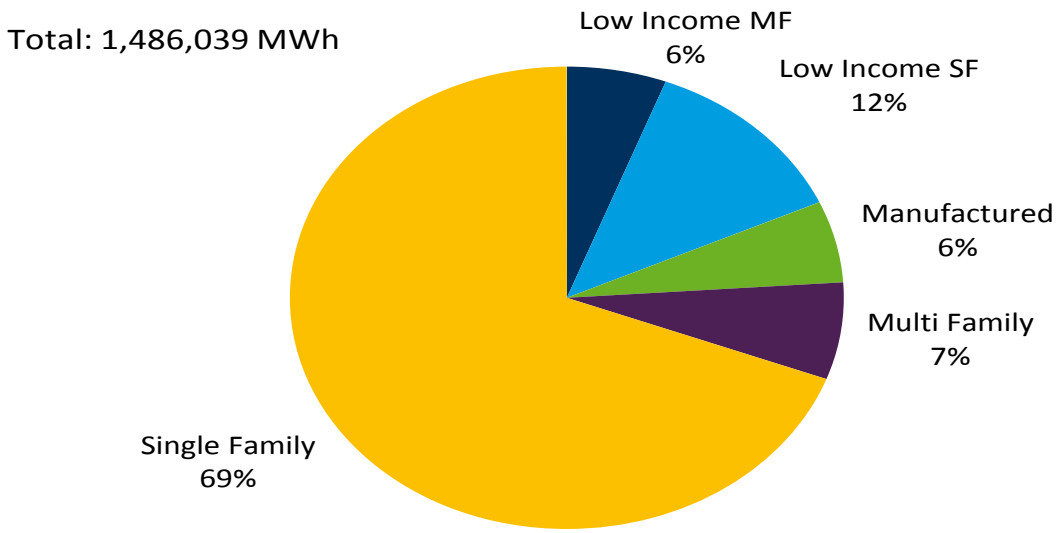


Figure 2. Residential Electric Technical Energy Efficiency Potential by Major End Use

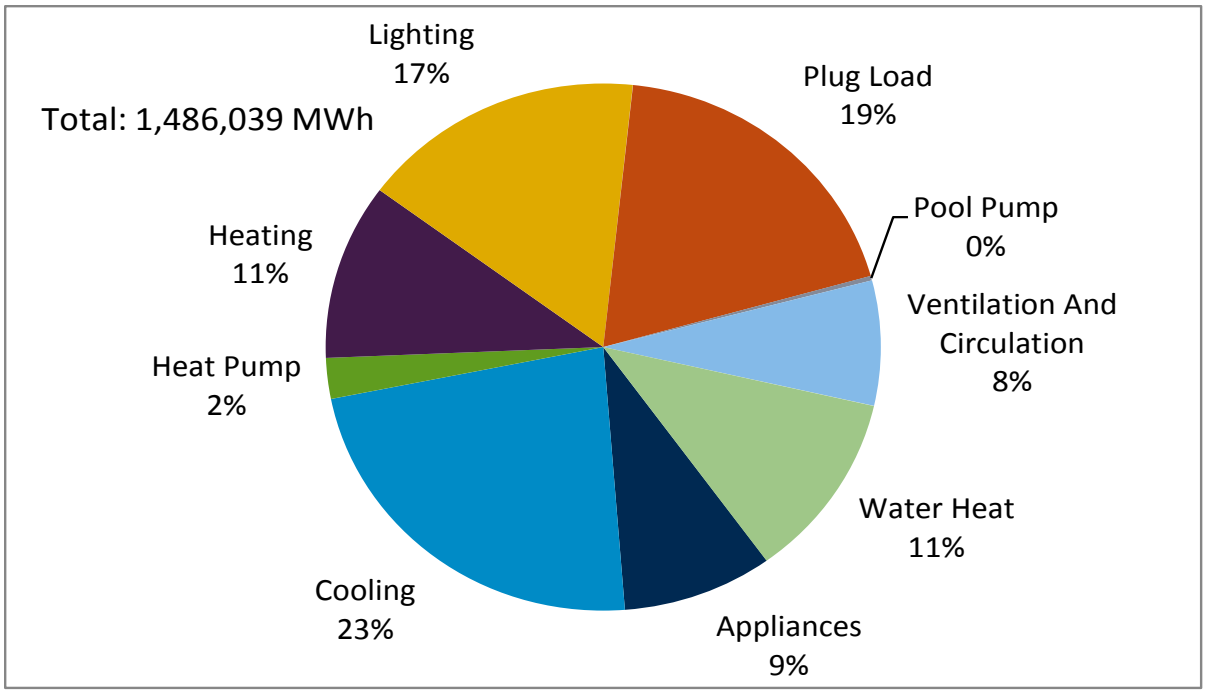


Figure 3. Commercial Electric Technical Energy Efficiency Potential by Market Segment

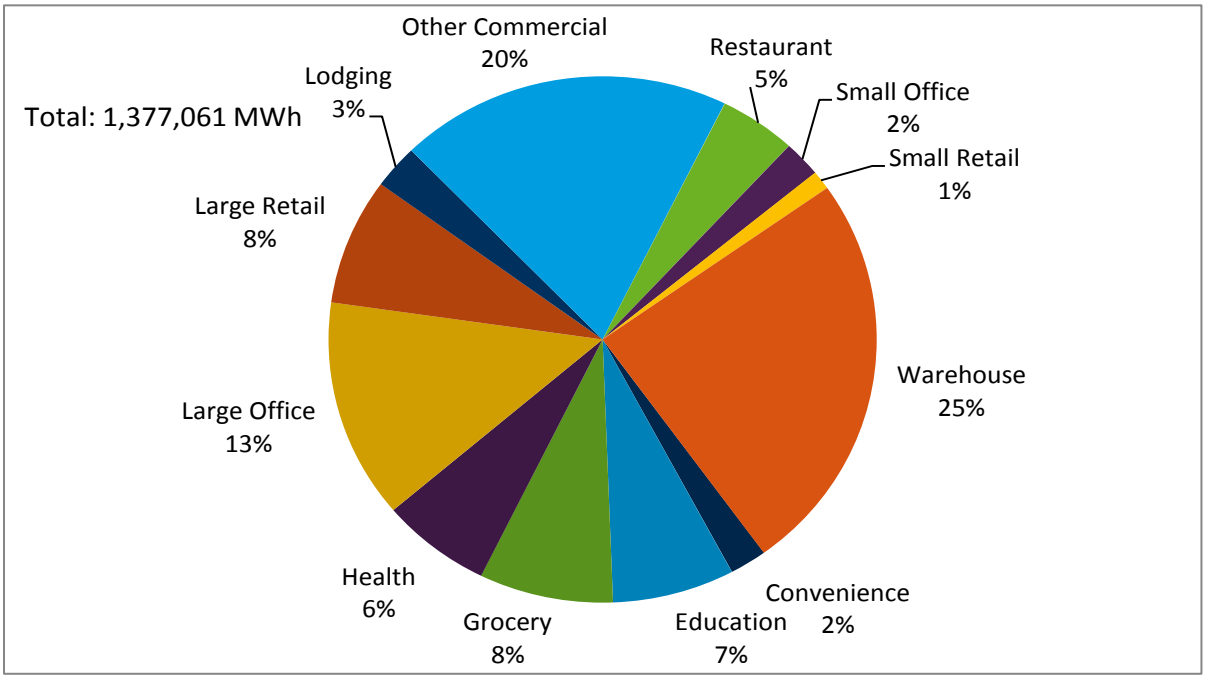


Figure 4. Commercial Electric Technical Energy Efficiency Potential by Major End Use

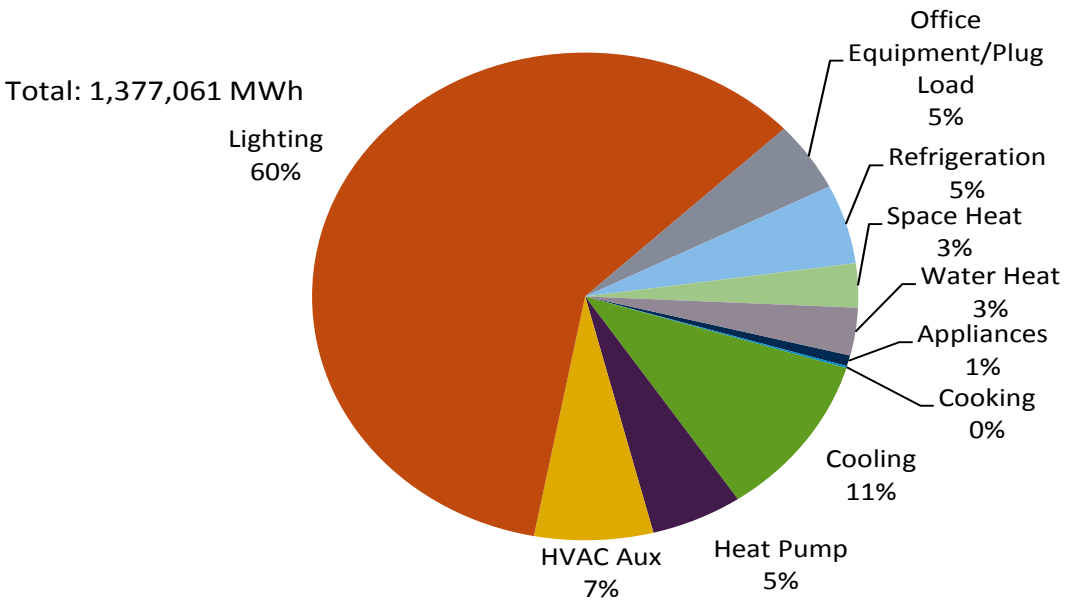


Figure 5. Industrial Electric Technical Energy Efficiency Potential by Industry Group

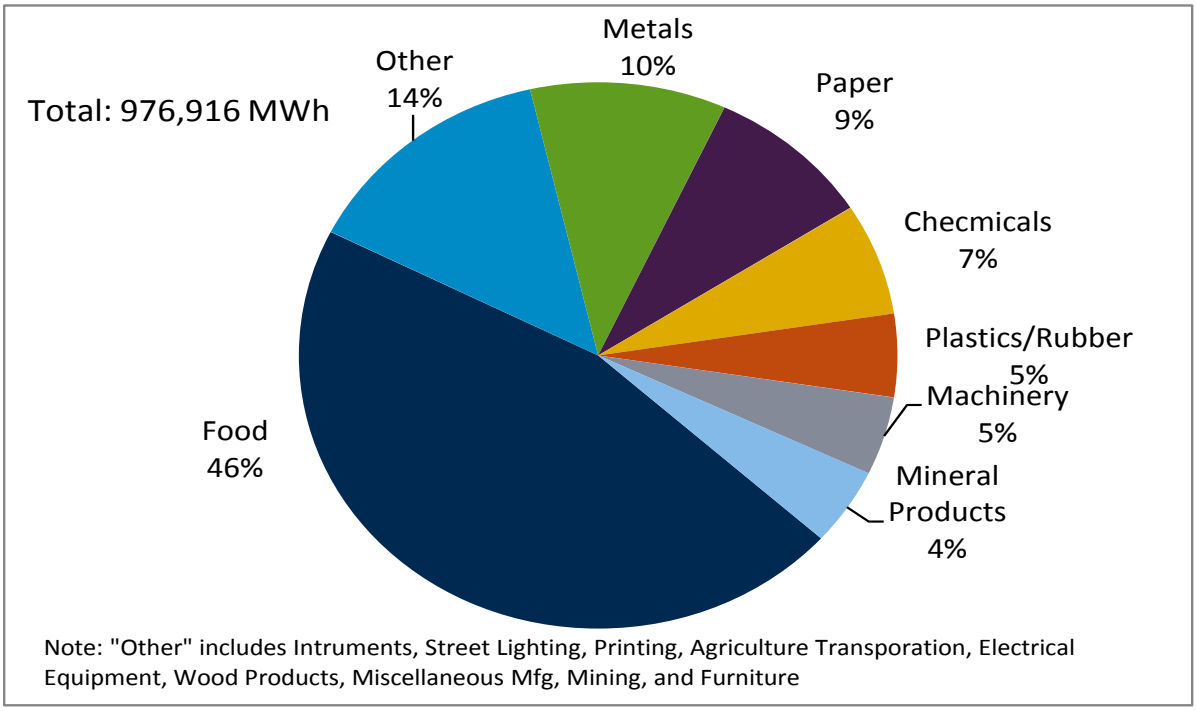
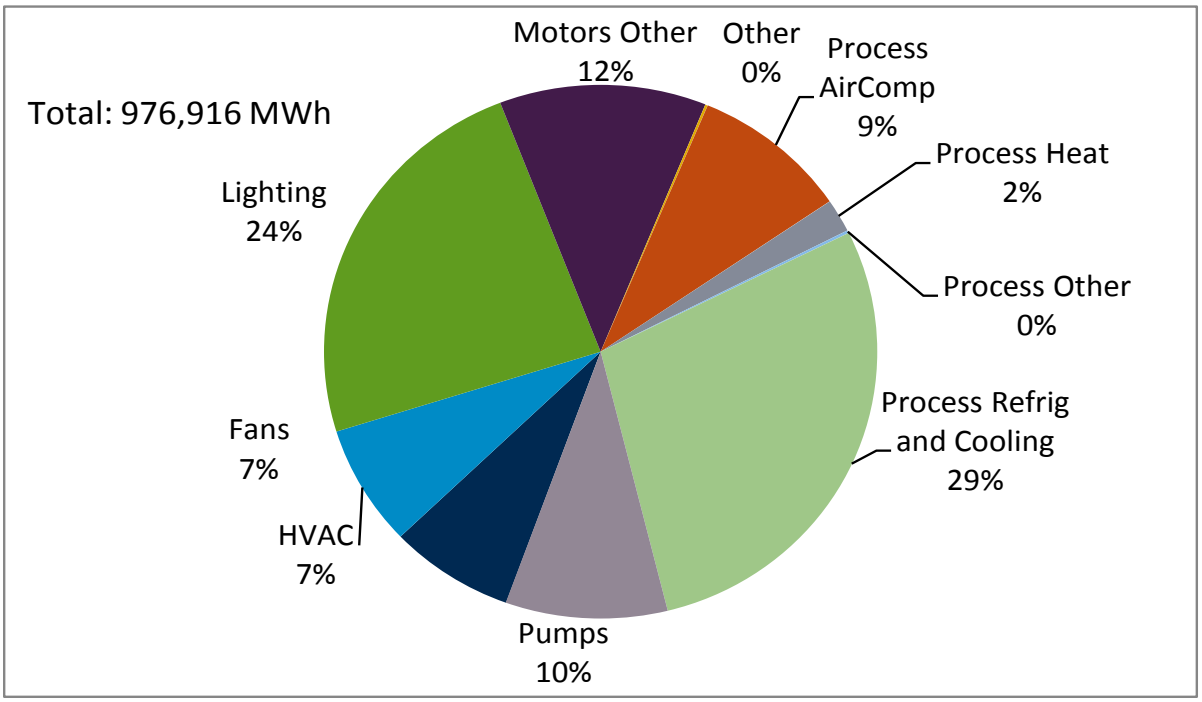


Figure 6. Industrial Electric Technical Energy Efficiency Potential by Major End Use



Economic Potential

Figure 7. Residential Electric Economic Energy Efficiency Potential by Dwelling Type

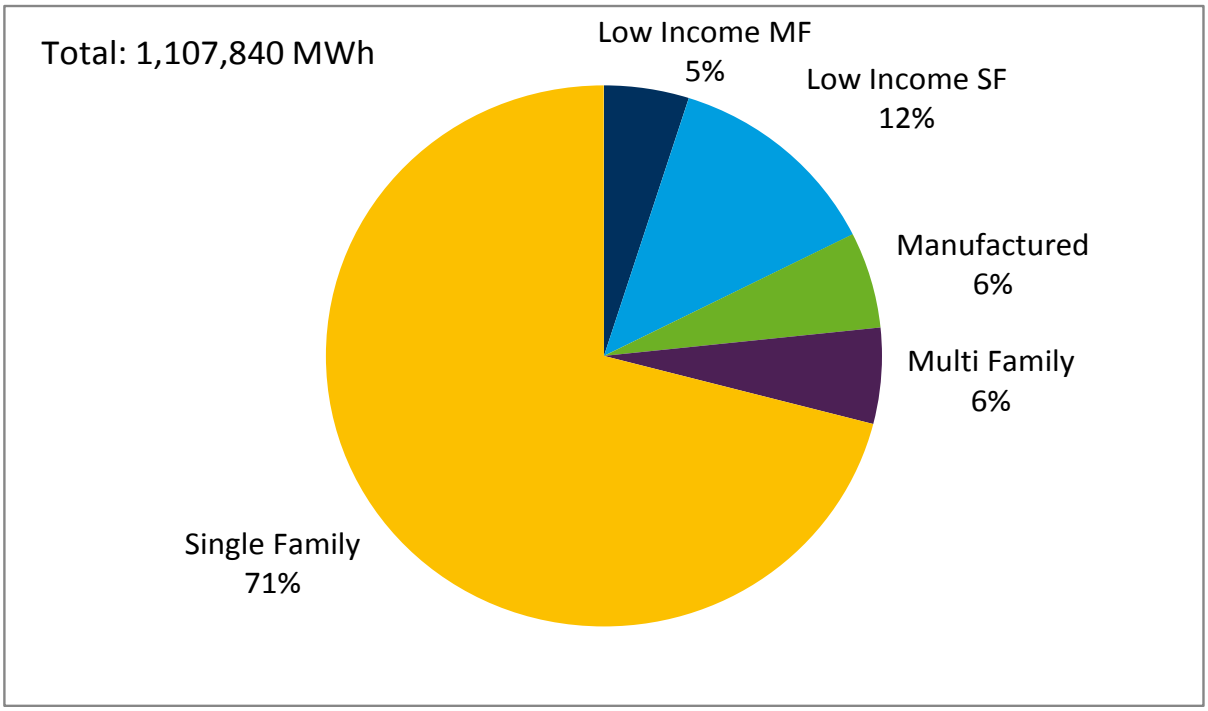


Figure 8. Residential Electric Economic Energy Efficiency Potential by Major End Use

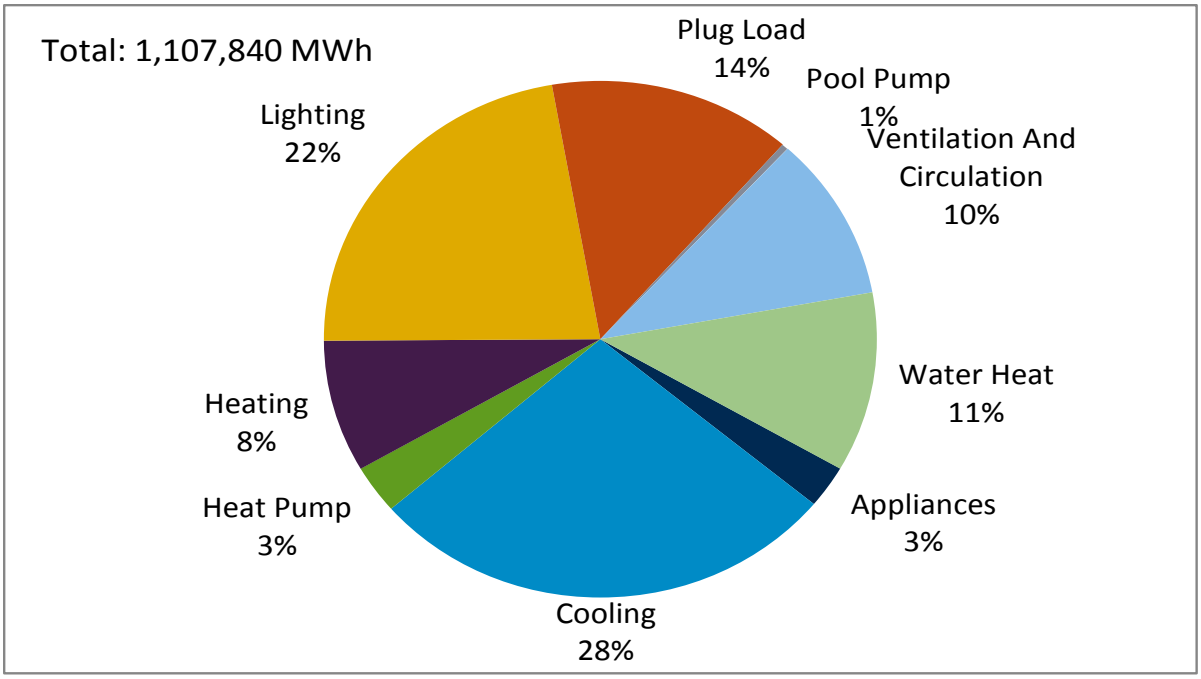


Figure 9. Commercial Electric Economic Energy Efficiency Potential by Market Segment

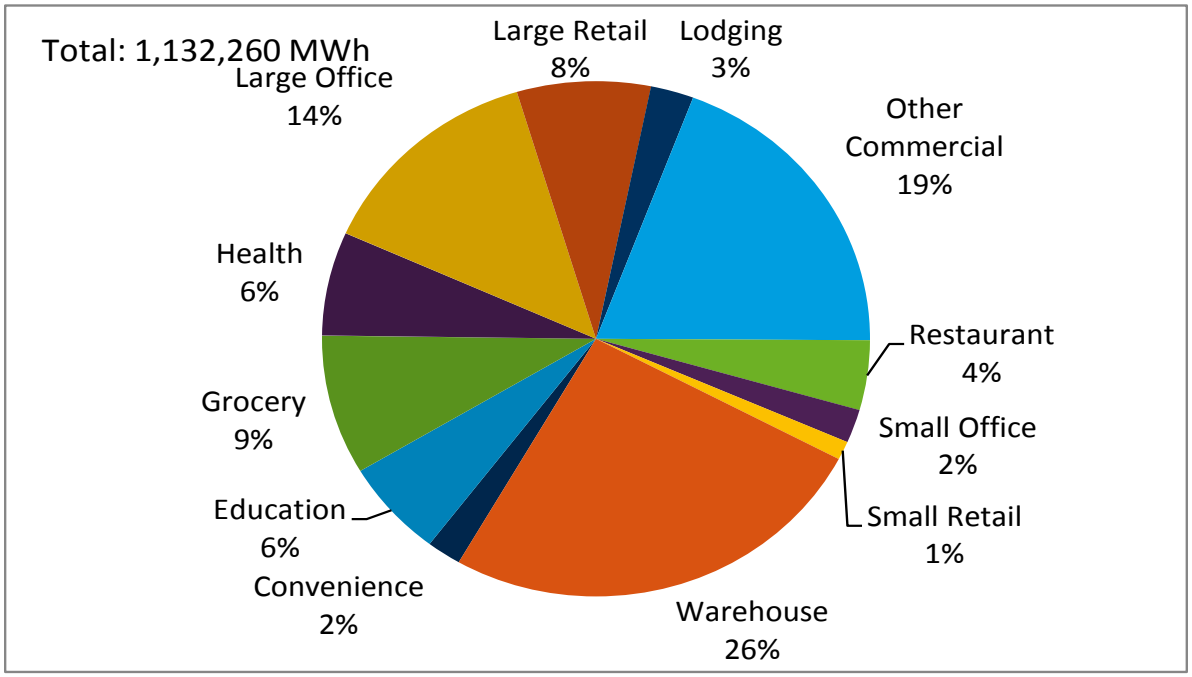


Figure 10. Commercial Electric Economic Energy Efficiency Potential by Major End Use

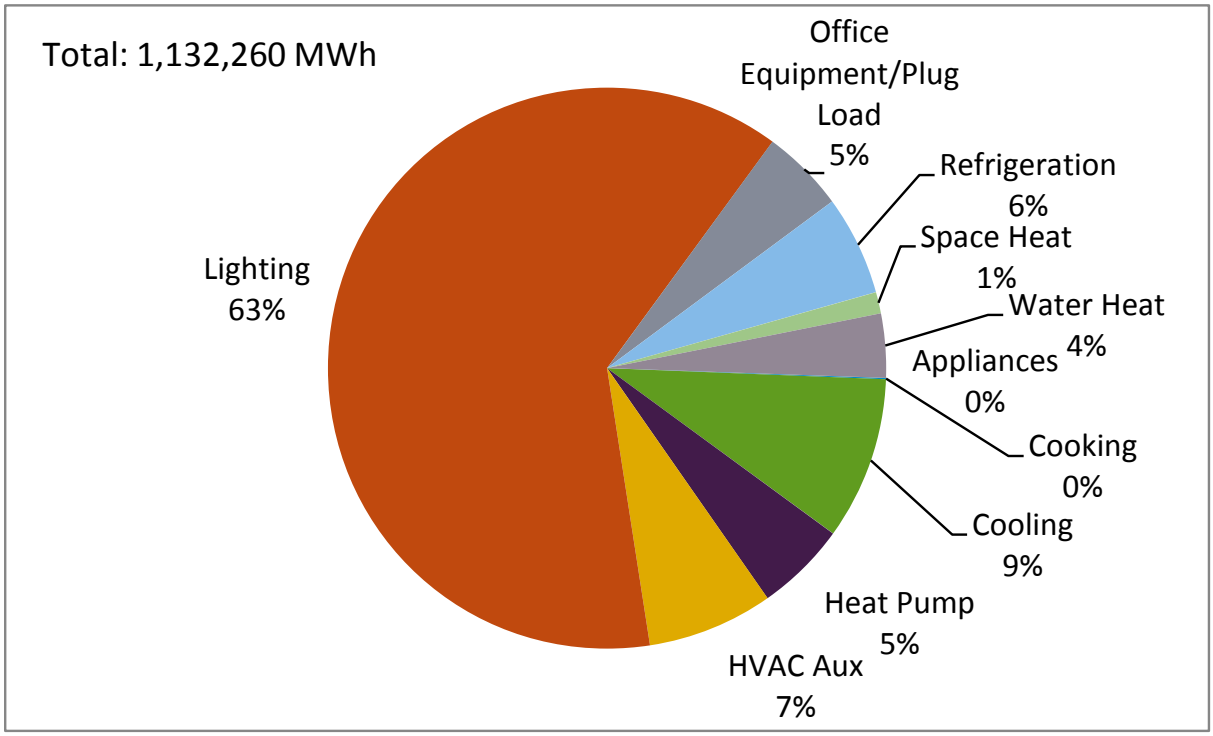


Figure 11. Industrial Electric Economic Energy Efficiency Potential by Industry Group

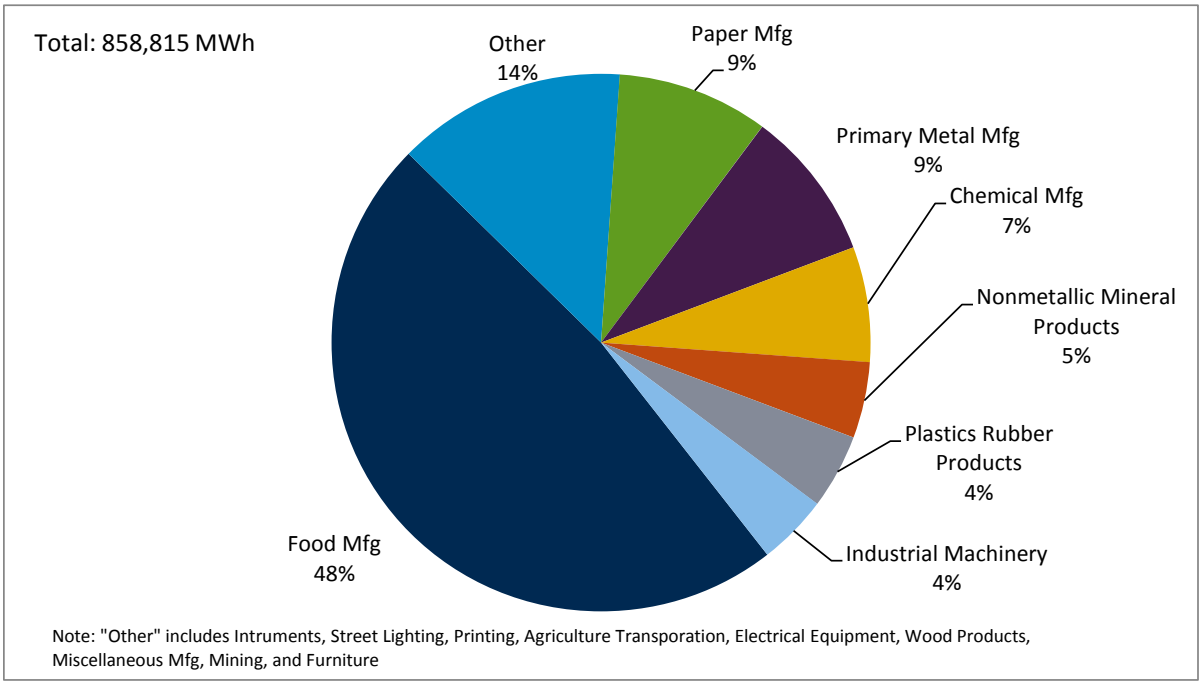
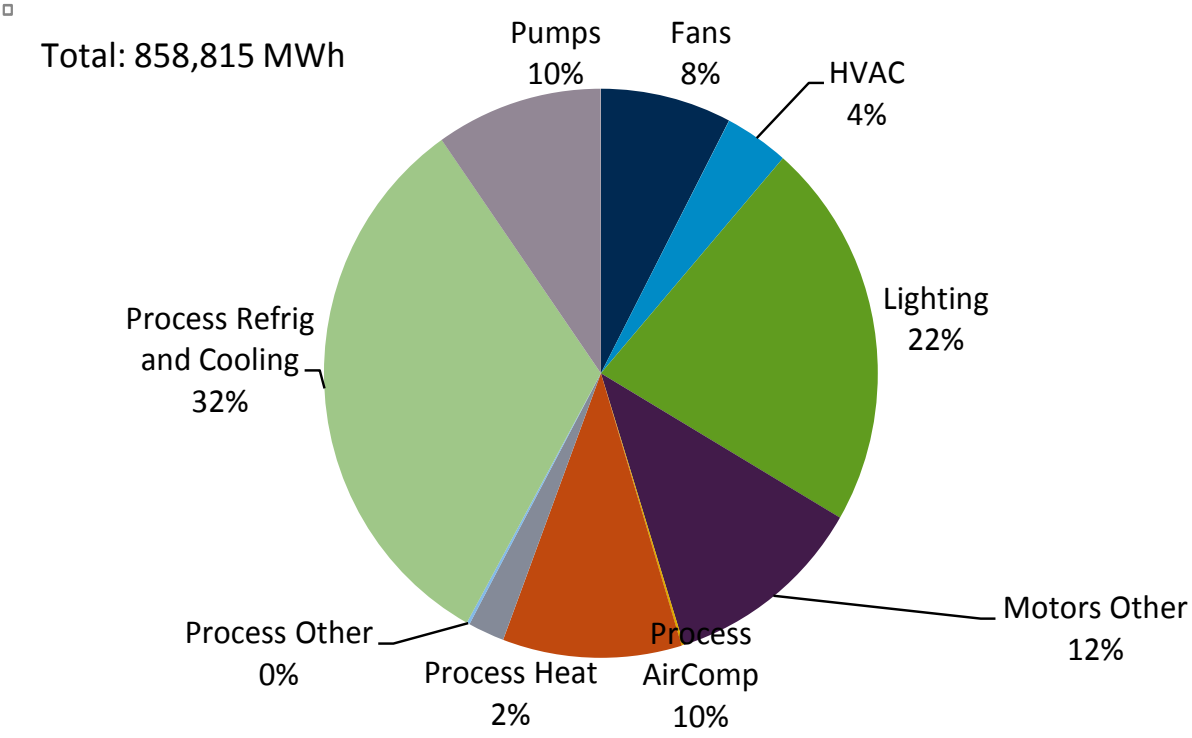


Figure 12. Industrial Electric Economic Energy Efficiency Potential by Major End Use



Natural Gas Potential

Table 2. Natural Gas Potential Summary

Sector	Baseline Sales (000 Dth)	Technical Potential (000 Dth)	Economic Potential	Economic Potential (Percent of Baseline)	Economic Potential (Percent of Technical)
Residential	14,256	6,244	3,792	27%	61%
Commercial	9,056	2,519	2,068	23%	82%
Industrial	3,392	313	297	9%	95%
Total	26,704	9,077	6,157	23%	68%

Technical Potential

Figure 13. Residential Gas Technical Energy Efficiency Potential by Dwelling Type

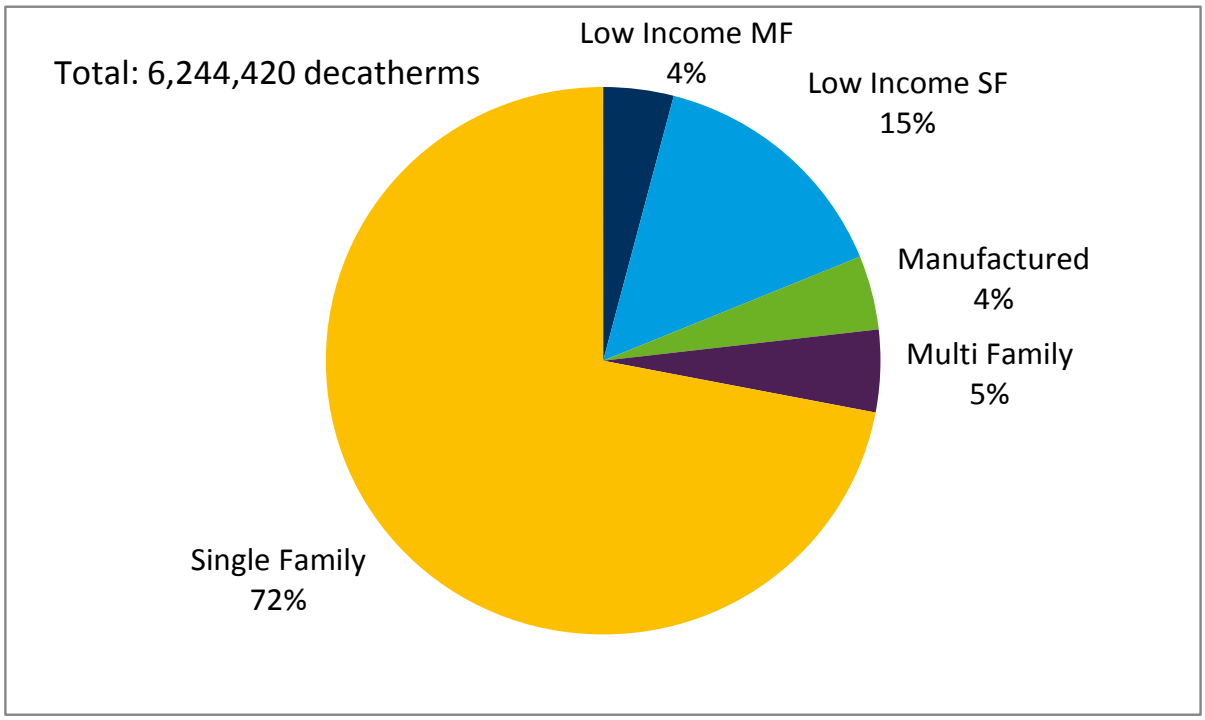


Figure 14. Residential Gas Technical Energy Efficiency Potential by Major End Use

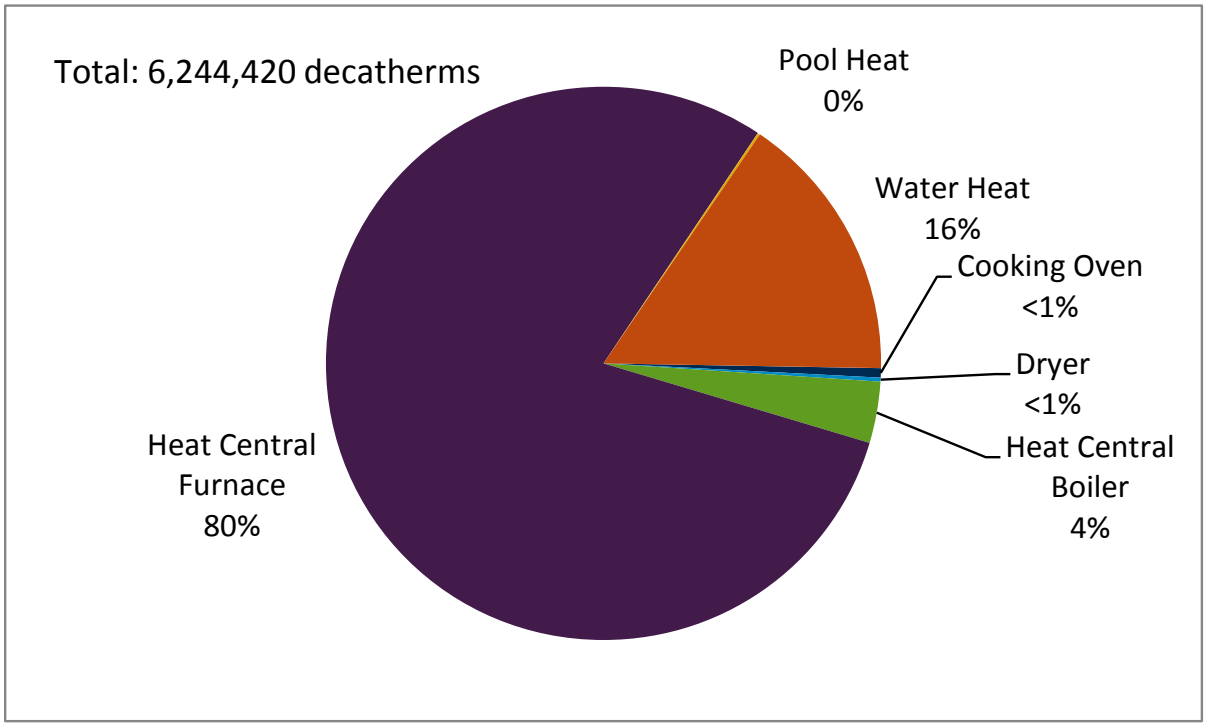


Figure 15. Commercial Gas Technical Energy Efficiency Potential by Market Segment

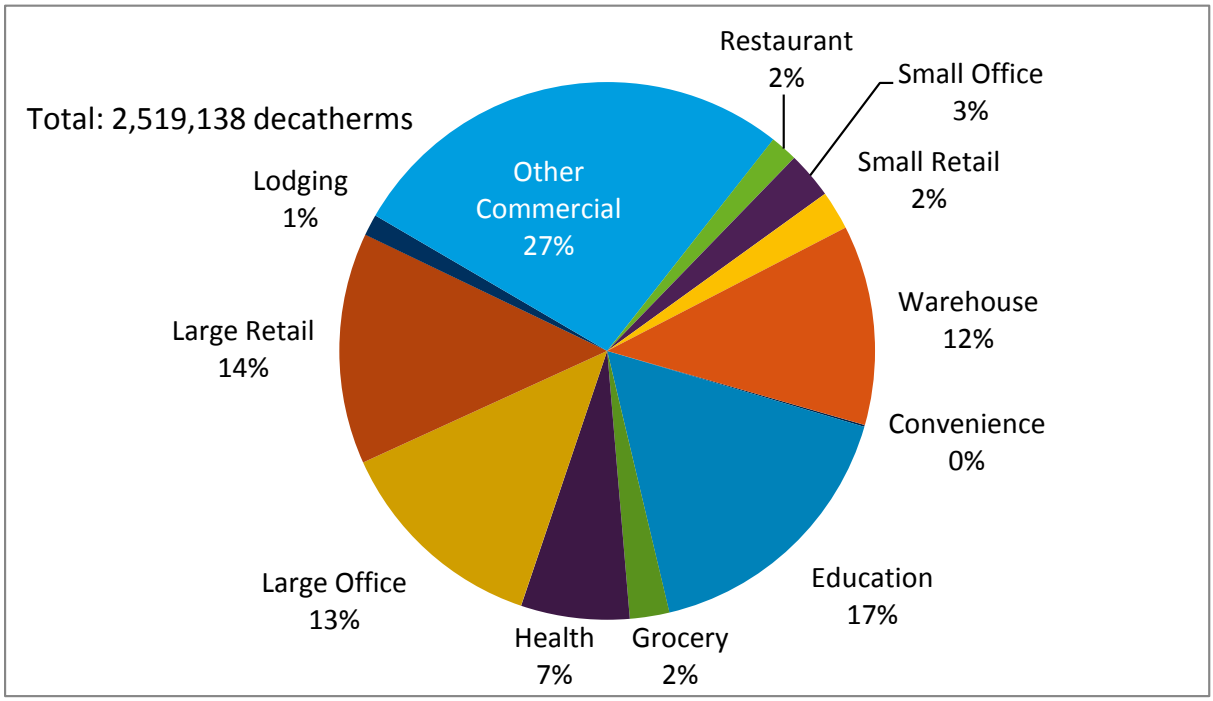


Figure 16. Commercial Gas Technical Energy Efficiency Potential by Major End Use

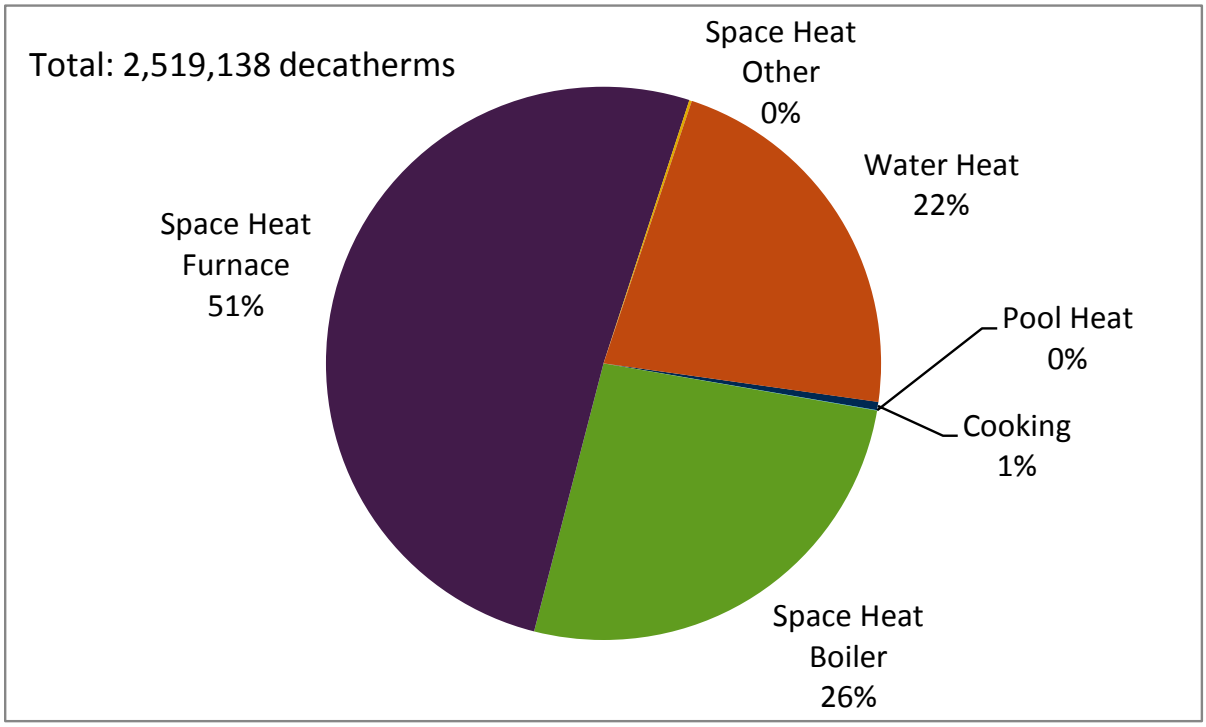


Figure 17. Industrial Gas Technical Energy Efficiency Potential by Major Industry Group

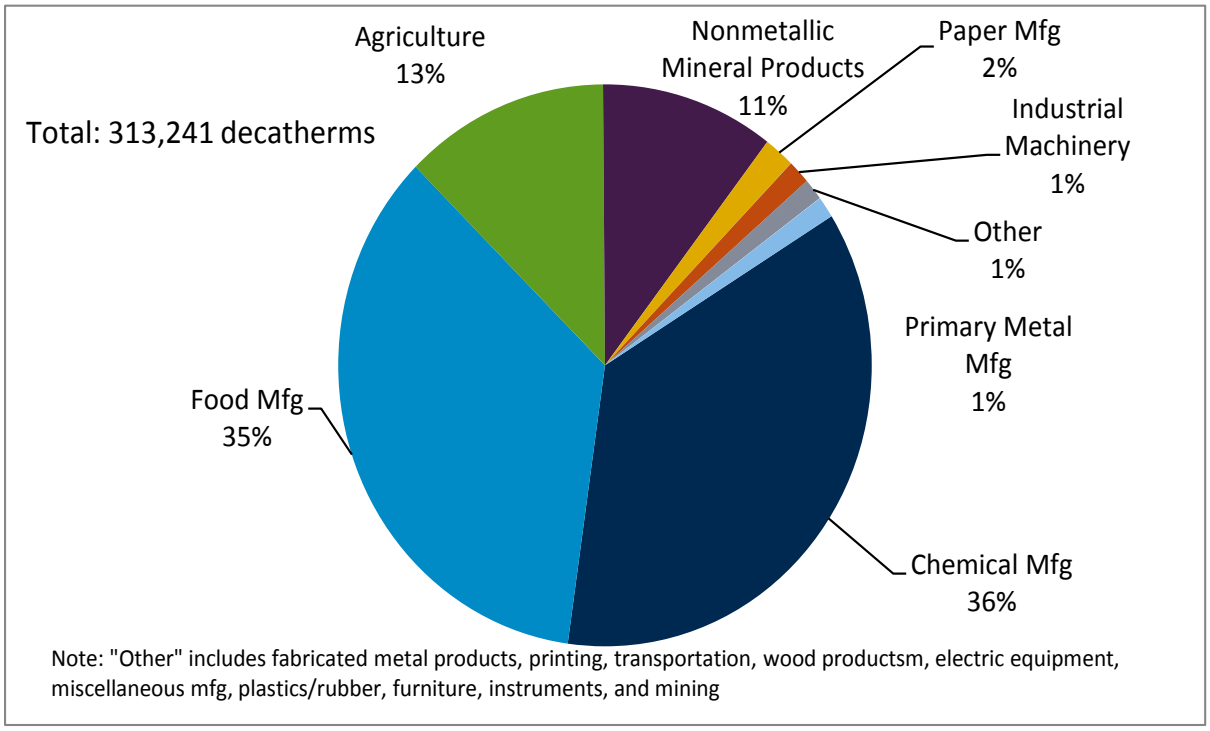
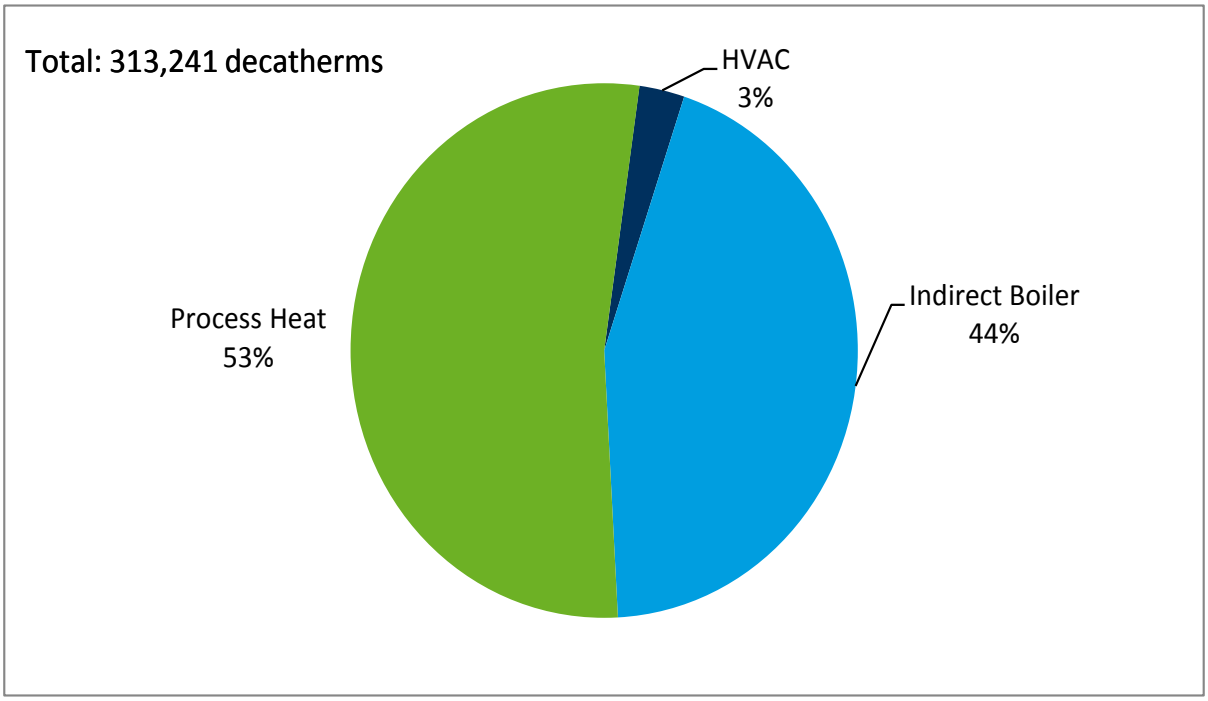


Figure 18. Industrial Gas Technical Energy Efficiency Potential by Major End Use



Economic Potential

Figure 19. Residential Gas Economic Energy Efficiency Potential by Dwelling Type

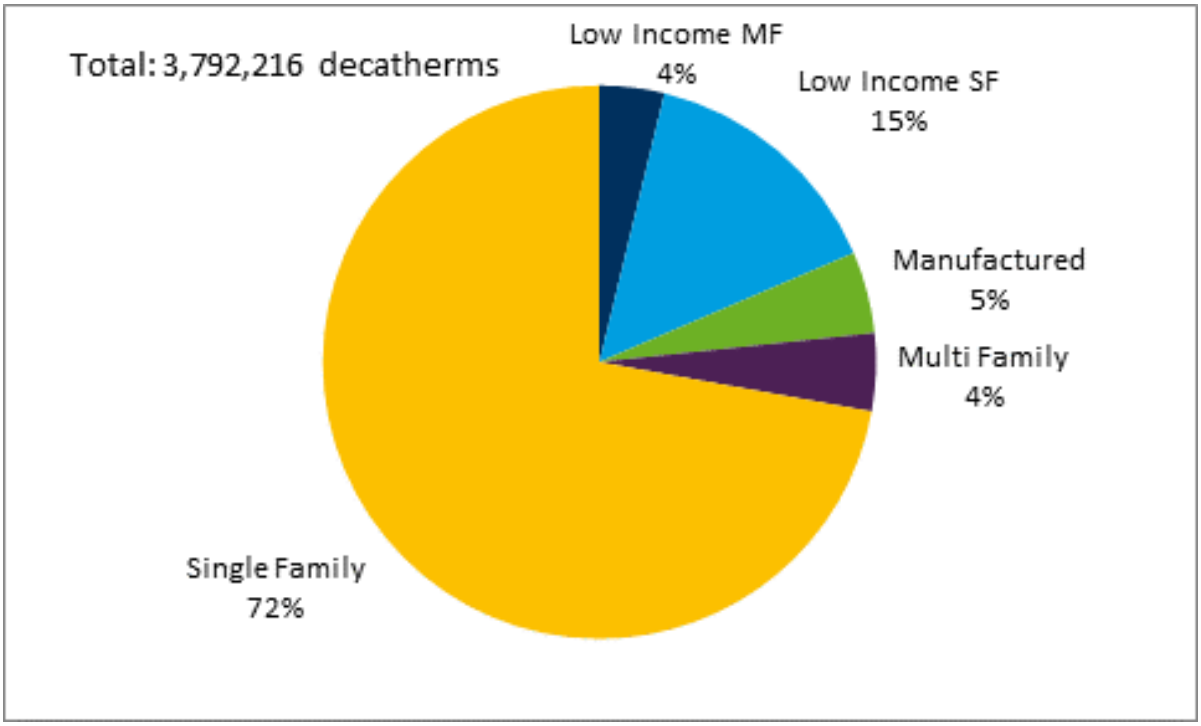


Figure 20. Residential Gas Economic Energy Efficiency Potential by Major End Use

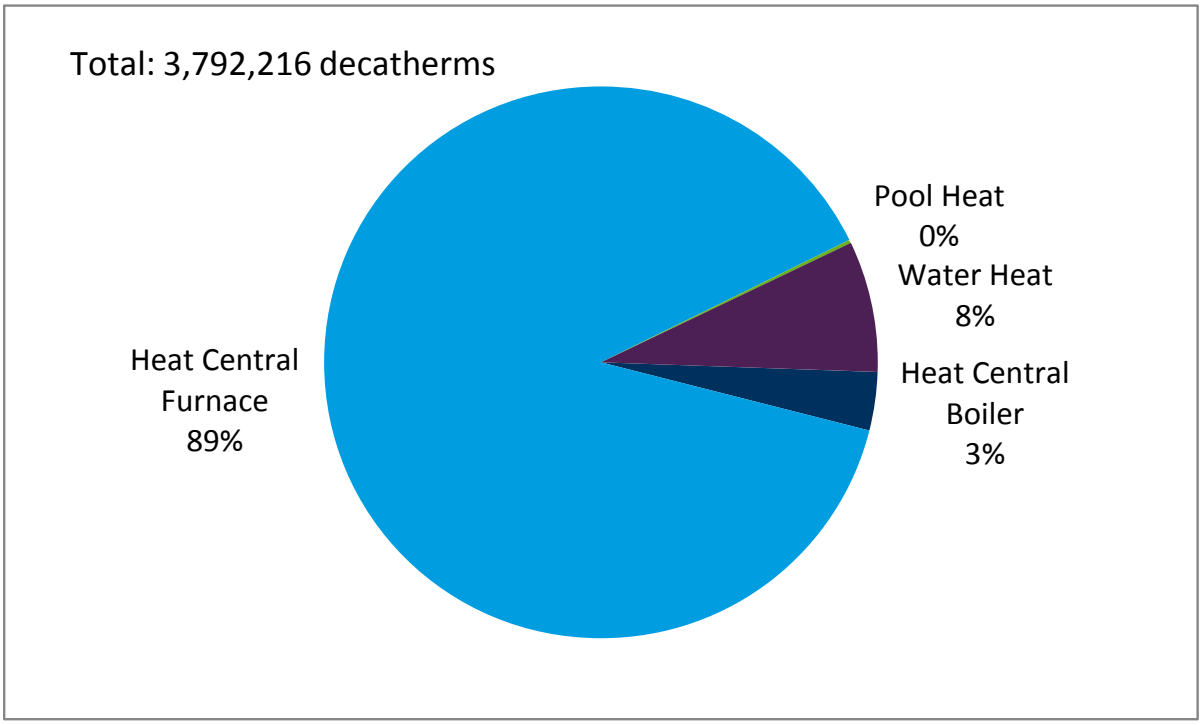


Figure 21. Commercial Gas Economic Energy Efficiency Potential by Market Segment

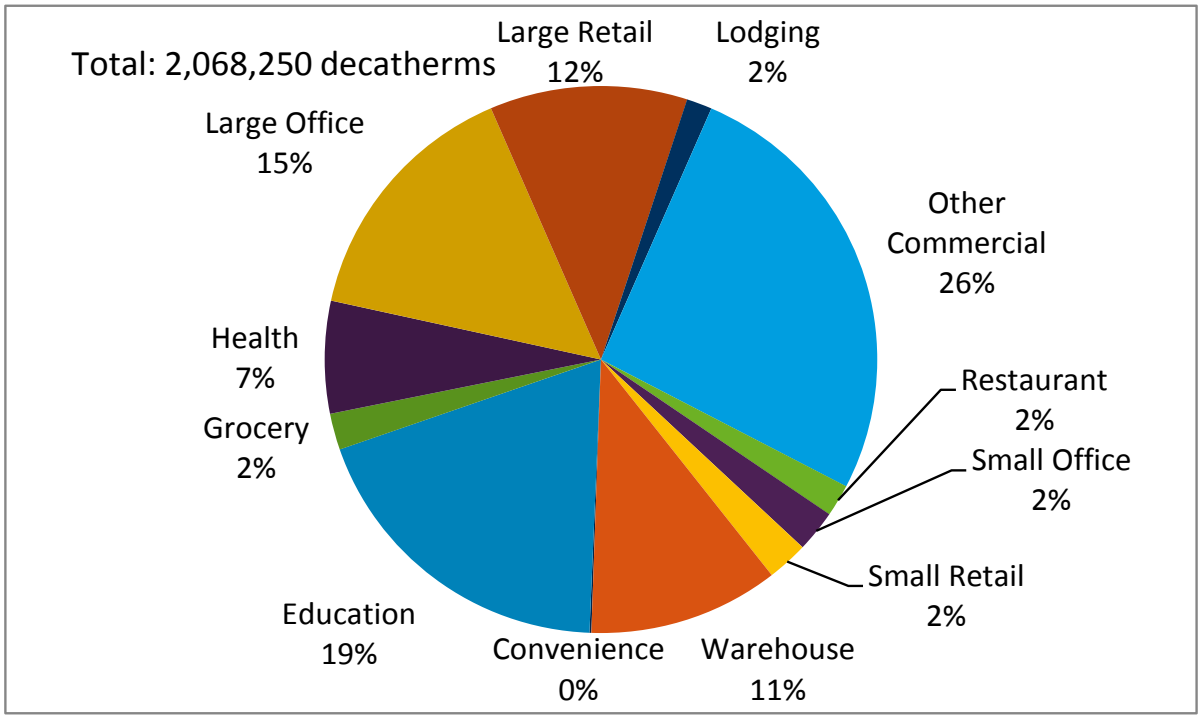


Figure 22. Commercial Gas Economic Energy Efficiency Potential by Major End Use

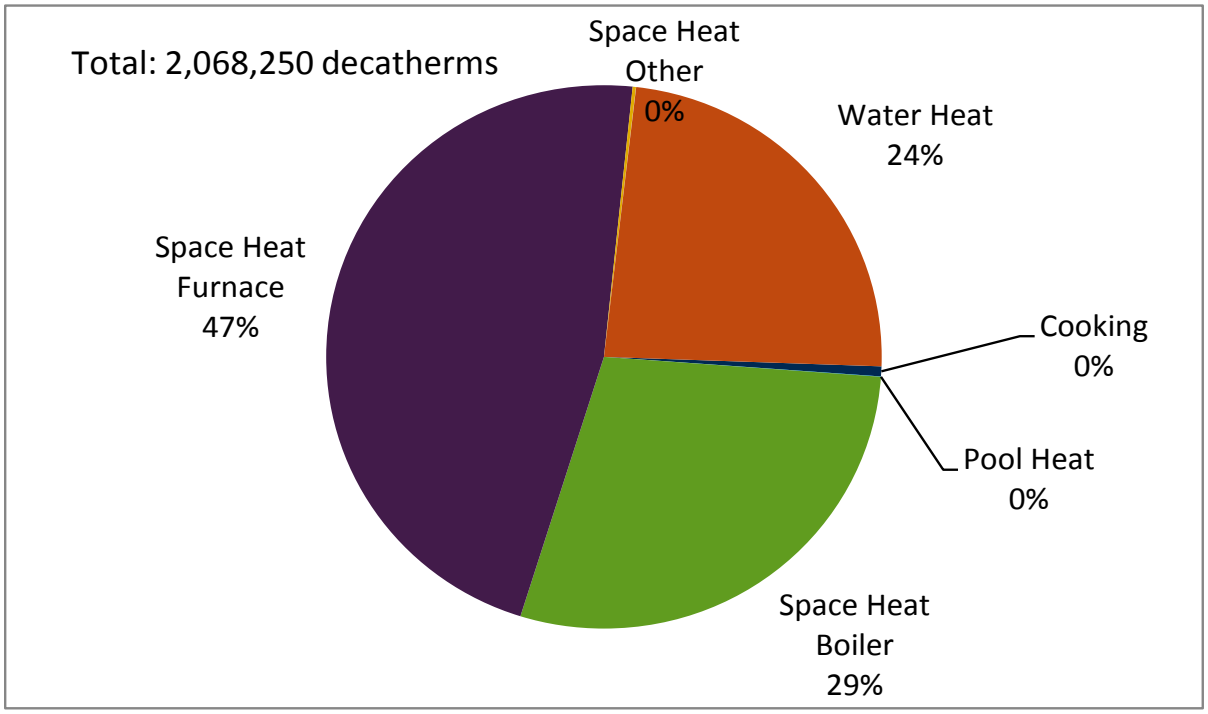
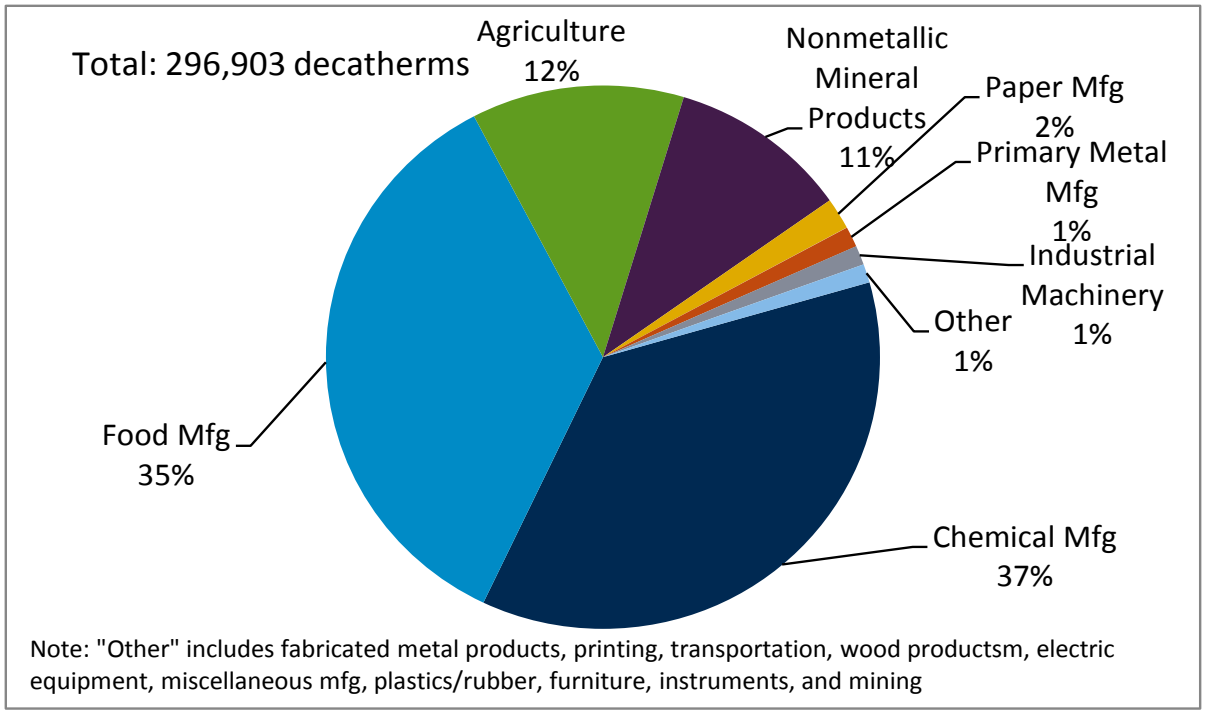


Figure 23. Industrial Gas Economic Energy Efficiency Potential by Major Industry Group



Note: "Other" includes fabricated metal products, printing, transportation, wood productsm, electric equipment, miscellaneous mfg, plastics/rubber, furniture, instruments, and mining

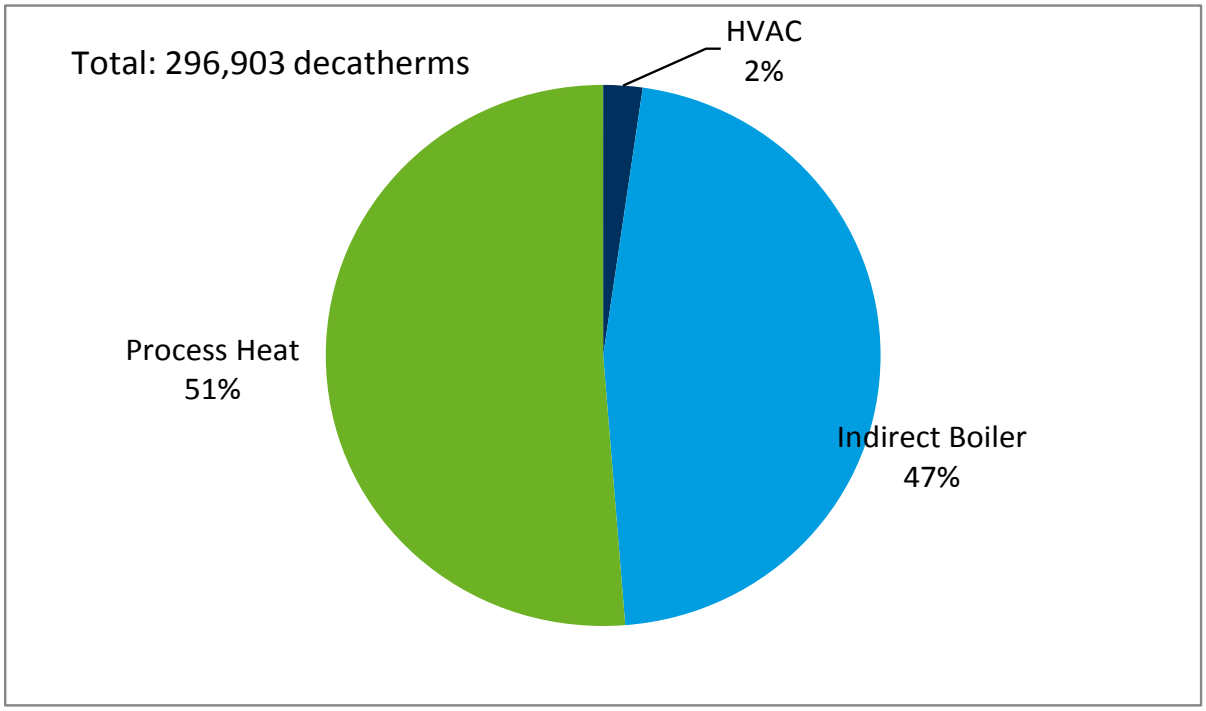



Figure 24. Industrial Gas Economic Energy Efficiency Potential by Major End Use