



## ***Appendix M***

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### **Industrial Sector Base & Remaining Factors Derivations**

- **Electric Model Specific  
Factors**
- **Non Electric Model  
Specific Factors**

## Industrial Electric Model - Specific Factors

| Industry  | Savings Factors*        |                                 |                 |                                   |               |                            |                   |               |                   |                        |                       |                                     |                |                    |                      |
|---|-------------------------|---------------------------------|-----------------|-----------------------------------|---------------|----------------------------|-------------------|---------------|-------------------|------------------------|-----------------------|-------------------------------------|----------------|--------------------|----------------------|
|   | Conventional Boiler Use | CHP and/or Cogeneration Process | Process Heating | Process Cooling and Refrigeration | Machine Drive | Electro-Chemical Processes | Other Process Use | Facility HVAC | Facility Lighting | Other Facility Support | Onsite Transportation | Conventional Electricity Generation | Compressed Air | Sensors & Controls | End Use Not Reported |
| Apparel And Other Finished Products Made From Fabrics And Similar Materials                                     | 0%                      | 0%                              | 20%             | 5%                                | 18%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Chemicals And Allied Products   | 0%                      | 0%                              | 20%             | 4%                                | 26%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Electronic And Other Electrical Equipment And Components, Except Computer Equipment                             | 0%                      | 0%                              | 30%             | 10%                               | 25%           | 0%                         | 0%                | 24%           | 49%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Fabricated Metal Products, Except Machinery And Transportation Equipment  | 0%                      | 0%                              | 30%             | 7%                                | 26%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Food And Kindred Products   | 0%                      | 0%                              | 20%             | 5%                                | 20%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Furniture And Fixtures  | 0%                      | 0%                              | 10%             | 4%                                | 18%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Industrial And Commercial Machinery And Computer Equipment  | 0%                      | 0%                              | 30%             | 5%                                | 18%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Leather And Leather Products  | 0%                      | 0%                              | 20%             | 5%                                | 17%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Lumber And Wood Products, Except Furniture  | 0%                      | 0%                              | 10%             | 4%                                | 18%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Measuring, Analyzing, And Controlling Instruments, Photographic, Medical, And Optical Goods, Watches And Clocks | 0%                      | 0%                              | 10%             | 5%                                | 17%           | 0%                         | 0%                | 24%           | 49%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Miscellaneous Manufacturing Industries  | 0%                      | 0%                              | 20%             | 4%                                | 17%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Paper And Allied Products   | 0%                      | 0%                              | 10%             | 4%                                | 17%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Petroleum Refining And Related Industries   | 0%                      | 0%                              | 10%             | 4%                                | 25%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Primary Metal Industries  | 0%                      | 0%                              | 20%             | 4%                                | 19%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Printing, Publishing, And Allied Industries   | 0%                      | 0%                              | 20%             | 5%                                | 17%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Rubber And Miscellaneous Plastics Products  | 0%                      | 0%                              | 30%             | 5%                                | 23%           | 0%                         | 0%                | 24%           | 35%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Stone, Clay, Glass, And Concrete Products   | 0%                      | 0%                              | 30%             | 5%                                | 18%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Textile Mill Products   | 0%                      | 0%                              | 20%             | 5%                                | 18%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Tobacco Products  | 0%                      | 0%                              | 20%             | 4%                                | 17%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |
| Transportation Equipment  | 0%                      | 0%                              | 10%             | 4%                                | 19%           | 0%                         | 0%                | 24%           | 40%               | 1%                     | 0%                    | 0%                                  | 20%            | 4%                 | 5%                   |

\* This savings factor includes considerations for remaining, base case, and convertible factor - it's an all inclusive factor

**Note:** GDS Estimates are based on a combination of past experience, recent and past projects, and industry standards and norms. Refer to SOURCES tab for further detail

Indicates Survey Data Used to Revise Estimates

## Industrial Non Electric Model - Specific Factors

| Industry  | Savings Factors*        |                                 |                 |                                   |               |                            |                   |               |                   |                        |                       |                                     |                      |                    |                      |
|---|-------------------------|---------------------------------|-----------------|-----------------------------------|---------------|----------------------------|-------------------|---------------|-------------------|------------------------|-----------------------|-------------------------------------|----------------------|--------------------|----------------------|
|   | Conventional Boiler Use | CHP and/or Cogeneration Process | Process Heating | Process Cooling and Refrigeration | Machine Drive | Electro-Chemical Processes | Other Process Use | Facility HVAC | Facility Lighting | Other Facility Support | Onsite Transportation | Conventional Electricity Generation | Other Nonprocess Use | Sensors & Controls | End Use Not Reported |
| Apparel And Other Finished Products Made From Fabrics And Similar Materials                                     | 17%                     | 0%                              | 14%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Chemicals And Allied Products   | 14%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Electronic And Other Electrical Equipment And Components, Except Computer Equipment                             | 20%                     | 0%                              | 12%             | 0%                                | 0%            | 0%                         | 0%                | 11%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Fabricated Metal Products, Except Machinery And Transportation Equipment  | 17%                     | 0%                              | 14%             | 0%                                | 0%            | 0%                         | 0%                | 17%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Food And Kindred Products   | 18%                     | 0%                              | 15%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Furniture And Fixtures  | 17%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Industrial And Commercial Machinery And Computer Equipment  | 17%                     | 0%                              | 12%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Leather And Leather Products  | 16%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Lumber And Wood Products, Except Furniture  | 17%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 20%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Measuring, Analyzing, And Controlling Instruments, Photographic, Medical, And Optical Goods, Watches And Clocks | 15%                     | 0%                              | 12%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Miscellaneous Manufacturing Industries  | 18%                     | 0%                              | 13%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Paper And Allied Products   | 18%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 16%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Petroleum Refining And Related Industries   | 14%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Primary Metal Industries  | 14%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Printing, Publishing, And Allied Industries   | 15%                     | 0%                              | 10%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Rubber And Miscellaneous Plastics Products  | 18%                     | 0%                              | 13%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Stone, Clay, Glass, And Concrete Products   | 15%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Textile Mill Products   | 18%                     | 0%                              | 13%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Tobacco Products  | 18%                     | 0%                              | 14%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |
| Transportation Equipment  | 16%                     | 0%                              | 11%             | 0%                                | 0%            | 0%                         | 0%                | 13%           | 0%                | 1%                     | 0%                    | 0%                                  | 0%                   | 0%                 | 5%                   |

\* This savings factor includes considerations for remaining, base case, and convertible factor - it's an all inclusive factor

Note: GDS Estimates are based on a combination of past experience, recent and past projects, and industry standards and norms. Refer to SOURCES tab for further detail

Indicates Survey Data Used to Inform Savings Factors