



DEPARTMENT OF ENERGY  
2016 POWER STATISTICS

Gross Power Generation by Plant Type\*  
in MWh

| LUZON                        | 2003              | 2004              | 2005              | 2006              | 2007              | 2008              | 2009              | 2010              | 2011              | 2012              | 2013              | 2014              | 2015              | 2016              | % Share       |
|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------|
| <b>Coal</b>                  | 14,351,121        | 15,548,335        | 14,652,275        | 14,099,158        | 14,417,796        | 13,503,727        | 14,091,376        | 20,046,584        | 19,681,127        | 21,877,501        | 25,755,945        | 27,346,492        | 29,679,511        | 33,143,458        | 49.8%         |
| <b>Oil-based</b>             | 3,595,860         | 4,590,814         | 2,021,641         | 1,711,415         | 2,192,048         | 1,928,244         | 1,864,281         | 3,287,173         | 1,290,685         | 1,800,321         | 1,600,626         | 2,342,360         | 1,844,787         | 2,561,831         | 3.9%          |
| Combined Cycle               | 438,755           | 738,437           | 90,608            | 238,870           | 652,834           | 513,442           | 638,520           | 1,202,040         | 123,556           | 227,354           | 247,159           | 514,980           | 275,892           | 693,685           | 1.0%          |
| Diesel                       | 2,317,101         | 2,688,194         | 1,910,774         | 1,315,067         | 1,348,033         | 952,751           | 594,559           | 1,003,383         | 890,321           | 1,099,123         | 1,183,466         | 1,520,521         | 1,483,116         | 1,622,749         | 2.4%          |
| Gas Turbine                  | 1,737             | 183               | 1,433             | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 | 10,290            | 499               | 0.0%          |
| Oil Thermal                  | 838,268           | 1,164,000         | 18,826            | 157,478           | 191,182           | 462,051           | 631,203           | 1,081,749         | 276,807           | 473,844           | 170,001           | 306,859           | 75,489            | 244,698           | 0.4%          |
| <b>Natural Gas</b>           | 13,139,410        | 12,384,467        | 16,860,917        | 16,365,960        | 18,789,414        | 19,575,855        | 19,886,827        | 19,517,854        | 20,591,323        | 19,641,527        | 18,783,471        | 18,685,808        | 18,877,915        | 19,853,763        | 29.9%         |
| <b>Renewable Energy (RE)</b> | 6,448,239         | 7,330,296         | 7,090,897         | 9,064,924         | 8,220,653         | 9,191,708         | 9,132,372         | 7,413,115         | 8,454,125         | 8,993,077         | 8,679,476         | 8,391,821         | 9,710,650         | 10,938,477        | 16.4%         |
| Geothermal                   | 2,600,465         | 3,033,417         | 2,742,203         | 3,519,417         | 3,600,503         | 3,729,921         | 3,515,964         | 3,323,495         | 3,485,813         | 3,588,417         | 3,398,601         | 3,817,330         | 4,096,454         | 4,226,913         | 6.4%          |
| Hydro                        | 3,847,774         | 4,296,879         | 4,331,224         | 5,492,271         | 4,562,309         | 5,400,402         | 5,549,227         | 4,013,529         | 4,836,470         | 5,292,482         | 5,155,521         | 4,357,160         | 4,768,825         | 5,011,100         | 7.5%          |
| Biomass                      |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | 0.7%          |
| Solar                        |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | 0.7%          |
| Wind                         | 0                 | 0                 | 17,469            | 53,235            | 57,842            | 61,386            | 64,428            | 61,717            | 88,204            | 75,339            | 65,655            | 152,052           | 591,756           | 766,711           | 1.2%          |
| <b>Total Generation</b>      | <b>37,534,630</b> | <b>39,853,911</b> | <b>40,626,730</b> | <b>41,241,457</b> | <b>43,619,911</b> | <b>44,199,534</b> | <b>44,974,855</b> | <b>50,264,725</b> | <b>50,017,259</b> | <b>52,312,426</b> | <b>54,819,517</b> | <b>56,766,481</b> | <b>60,112,863</b> | <b>66,497,549</b> | <b>100.0%</b> |

| VISAYAS                      | 2003             | 2004             | 2005             | 2006             | 2007             | 2008             | 2009             | 2010             | 2011              | 2012              | 2013              | 2014              | 2015              | 2016              | % Share       |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------|
| <b>Coal</b>                  | 587,626          | 646,077          | 603,903          | 718,663          | 848,428          | 745,686          | 822,007          | 1,528,682        | 4,032,202         | 4,701,053         | 4,689,683         | 4,449,483         | 4,968,437         | 5,270,242         | 40.7%         |
| <b>Oil-based</b>             | 1,860,563        | 1,997,708        | 1,799,876        | 1,281,766        | 1,477,089        | 1,664,802        | 1,863,970        | 1,726,580        | 683,226           | 734,172           | 796,470           | 785,893           | 672,207           | 637,405           | 4.9%          |
| Diesel                       | 1,480,745        | 1,649,383        | 1,486,431        | 1,165,700        | 1,334,868        | 1,432,627        | 1,554,155        | 1,446,180        | 448,577           | 514,274           | 528,780           | 614,558           | 672,207           | 637,405           | 4.9%          |
| Gas Turbine                  | 40,236           | 82,094           | 23,862           | 193              | 9,045            | 36,485           | 61,972           | 3,164            | 0                 | 0                 | 0                 | 0                 | 0                 | 0                 | 0.0%          |
| Oil Thermal                  | 339,582          | 266,231          | 289,582          | 115,873          | 133,176          | 195,690          | 247,843          | 277,236          | 234,649           | 219,899           | 267,689           | 151,335           | 0                 | 0                 | 0.0%          |
| <b>Natural Gas</b>           |                  |                  |                  |                  |                  |                  |                  |                  |                   |                   |                   |                   | 7,815             | 4,269             | 0.0%          |
| <b>Renewable Energy (RE)</b> | 6,393,997        | 6,372,594        | 6,294,573        | 6,128,295        | 5,776,075        | 6,239,206        | 6,038,321        | 5,820,003        | 5,740,314         | 6,047,489         | 5,605,626         | 5,794,279         | 6,529,839         | 7,047,239         | 54.4%         |
| Geothermal                   | 6,360,964        | 6,338,317        | 6,267,377        | 6,100,202        | 5,746,878        | 6,199,159        | 5,984,957        | 5,771,218        | 5,615,561         | 5,930,484         | 5,463,017         | 5,627,241         | 6,105,383         | 6,974,487         | 46.1%         |
| Hydro                        | 33,033           | 34,277           | 27,196           | 28,093           | 29,197           | 40,047           | 42,406           | 35,889           | 53,117            | 46,161            | 36,936            | 35,475            | 38,375            | 63,532            | 0.5%          |
| Biomass                      |                  |                  |                  |                  |                  |                  |                  |                  |                   |                   |                   |                   |                   |                   | 0.1%          |
| Solar                        |                  |                  |                  |                  |                  |                  |                  |                  |                   |                   |                   | 15,040            | 70,559            | 524,658           | 4.0%          |
| Wind                         |                  |                  |                  |                  |                  |                  |                  |                  |                   |                   |                   |                   | 156,658           | 208,509           | 1.6%          |
| <b>Total Generation</b>      | <b>8,842,186</b> | <b>9,016,379</b> | <b>8,698,352</b> | <b>8,128,723</b> | <b>8,101,593</b> | <b>8,649,694</b> | <b>8,724,298</b> | <b>9,075,264</b> | <b>10,455,743</b> | <b>11,482,714</b> | <b>11,099,593</b> | <b>11,013,924</b> | <b>12,170,483</b> | <b>12,954,886</b> | <b>100.0%</b> |

| MINDANAO                     | 2003             | 2004             | 2005             | 2006             | 2007             | 2008             | 2009             | 2010             | 2011             | 2012             | 2013             | 2014             | 2015              | 2016              | % Share       |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|---------------|
| <b>Coal</b>                  | 0                | 0                | 0                | 476,245          | 1,570,872        | 1,499,380        | 1,562,753        | 1,725,839        | 1,628,848        | 1,686,314        | 1,635,380        | 1,257,542        | 2,037,738         | 4,889,542         | 43.1%         |
| <b>Oil-based</b>             | 1,713,693        | 1,915,799        | 2,319,927        | 1,671,619        | 1,478,868        | 1,275,288        | 1,652,415        | 2,087,250        | 1,423,688        | 1,719,521        | 2,093,504        | 2,599,495        | 3,369,442         | 2,462,172         | 21.7%         |
| Diesel                       | 1,711,563        | 1,915,500        | 2,319,772        | 1,671,376        | 1,478,775        | 1,275,010        | 1,622,575        | 2,082,124        | 1,423,433        | 1,718,684        | 2,092,831        | 2,595,139        | 3,365,393         | 2,462,172         | 21.7%         |
| Oil Thermal                  | 2,129            | 299              | 155              | 242              | 93               | 278              | 29,840           | 5,126            | 256              | 837              | 673              | 4,356            | 4,050             | 0                 | 0.0%          |
| <b>Natural Gas</b>           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   | 0                 | 0.0%          |
| <b>Renewable Energy (RE)</b> | 4,850,029        | 5,171,340        | 4,922,732        | 5,266,085        | 4,840,544        | 5,197,088        | 5,020,111        | 4,589,680        | 5,650,112        | 5,721,036        | 5,617,847        | 5,623,555        | 4,722,686         | 3,993,743         | 35.2%         |
| Geothermal                   | 861,015          | 909,815          | 892,863          | 845,660          | 867,308          | 793,700          | 822,926          | 834,439          | 840,956          | 731,089          | 742,980          | 863,542          | 841,857           | 869,002           | 7.7%          |
| Hydro                        | 3,989,013        | 4,261,525        | 4,028,352        | 4,419,049        | 3,971,927        | 4,402,084        | 4,195,934        | 3,753,987        | 4,807,945        | 4,913,491        | 4,826,851        | 4,744,638        | 3,857,878         | 3,036,282         | 26.8%         |
| Biomass                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                   | 0.1%          |
| Solar                        | 0                | 0                | 1,517            | 1,376            | 1,309            | 1,304            | 1,252            | 1,254            | 1,212            | 1,320            | 1,414            | 1,477            | 1,548             | 77,412            | 0.7%          |
| Wind                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   | 0                 | 0.0%          |
| <b>Total Generation</b>      | <b>6,563,721</b> | <b>7,087,140</b> | <b>7,242,659</b> | <b>7,413,949</b> | <b>7,890,283</b> | <b>7,971,756</b> | <b>8,235,278</b> | <b>8,402,769</b> | <b>8,702,648</b> | <b>9,126,871</b> | <b>9,346,731</b> | <b>9,480,592</b> | <b>10,129,866</b> | <b>11,345,457</b> | <b>100.0%</b> |

| PHILIPPINES by Grid     | 2003              | 2004              | 2005              | 2006              | 2007              | 2008              | 2009              | 2010              | 2011              | 2012              | 2013              | 2014              | 2015              | 2016              | % Share       |
|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------|
| Luzon                   | 37,534,630        | 39,853,911        | 40,626,730        | 41,241,457        | 43,619,911        | 44,199,534        | 44,974,855        | 50,264,725        | 50,017,259        | 52,312,426        | 54,819,517        | 56,766,481        | 60,112,863        | 66,497,549        | 73.2%         |
| Visayas                 | 8,842,186         | 9,016,379         | 8,698,352         | 8,128,723         | 8,101,593         | 8,649,694         | 8,724,298         | 9,075,264         | 10,455,743        | 11,482,714        | 11,099,593        | 11,013,924        | 12,170,483        | 12,954,886        | 14.3%         |
| Mindanao                | 6,563,721         | 7,087,140         | 7,242,659         | 7,413,949         | 7,890,283         | 7,971,756         | 8,235,278         | 8,402,769         | 8,702,648         | 9,126,871         | 9,346,731         | 9,480,592         | 10,129,866        | 11,345,457        | 12.5%         |
| <b>Total Generation</b> | <b>52,940,537</b> | <b>55,957,430</b> | <b>56,567,740</b> | <b>56,784,130</b> | <b>59,611,788</b> | <b>60,820,985</b> | <b>61,934,432</b> | <b>67,742,759</b> | <b>69,175,650</b> | <b>72,922,011</b> | <b>75,265,842</b> | <b>77,260,997</b> | <b>82,413,213</b> | <b>90,787,891</b> | <b>100.0%</b> |



DEPARTMENT OF ENERGY  
2016 POWER STATISTICS

Gross Power Generation by Plant Type\*

In MWh

| PHILIPPINES by Plant Type    | 2003              | 2004              | 2005              | 2006              | 2007              | 2008              | 2009              | 2010              | 2011              | 2012              | 2013              | 2014              | 2015              | 2016              | % Share       |
|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------|
| <b>Coal</b>                  | <b>14,938,748</b> | <b>16,194,412</b> | <b>15,257,178</b> | <b>15,294,066</b> | <b>16,837,096</b> | <b>15,748,794</b> | <b>16,476,136</b> | <b>23,301,105</b> | <b>25,342,176</b> | <b>28,284,867</b> | <b>32,081,007</b> | <b>33,053,518</b> | <b>36,685,685</b> | <b>43,303,242</b> | <b>47.7%</b>  |
| <b>Oil-based</b>             | <b>7,170,115</b>  | <b>8,504,321</b>  | <b>6,141,444</b>  | <b>4,664,799</b>  | <b>5,148,006</b>  | <b>4,868,333</b>  | <b>5,380,666</b>  | <b>7,101,002</b>  | <b>3,397,599</b>  | <b>4,254,015</b>  | <b>4,490,600</b>  | <b>5,707,748</b>  | <b>5,886,437</b>  | <b>5,661,408</b>  | <b>6.2%</b>   |
| <i>Combined Cycle</i>        | <i>438,755</i>    | <i>738,437</i>    | <i>90,608</i>     | <i>238,870</i>    | <i>652,834</i>    | <i>513,442</i>    | <i>638,520</i>    | <i>1,202,040</i>  | <i>123,556</i>    | <i>227,354</i>    | <i>247,159</i>    | <i>514,980</i>    | <i>275,892</i>    | <i>693,685</i>    | <i>0.8%</i>   |
| <i>Diesel</i>                | <i>5,509,409</i>  | <i>6,253,077</i>  | <i>5,716,977</i>  | <i>4,152,144</i>  | <i>4,161,675</i>  | <i>3,660,388</i>  | <i>3,771,289</i>  | <i>4,531,688</i>  | <i>2,762,331</i>  | <i>3,332,081</i>  | <i>3,805,078</i>  | <i>4,730,219</i>  | <i>5,520,716</i>  | <i>4,722,326</i>  | <i>5.2%</i>   |
| <i>Gas Turbine</i>           | <i>41,972</i>     | <i>82,277</i>     | <i>25,295</i>     | <i>193</i>        | <i>9,045</i>      | <i>36,485</i>     | <i>61,972</i>     | <i>3,164</i>      | <i>0</i>          | <i>0</i>          | <i>0</i>          | <i>0</i>          | <i>10,290</i>     | <i>499</i>        | <i>0.0%</i>   |
| <i>Oil Thermal</i>           | <i>1,179,979</i>  | <i>1,430,529</i>  | <i>308,564</i>    | <i>273,593</i>    | <i>324,452</i>    | <i>658,018</i>    | <i>908,885</i>    | <i>1,364,111</i>  | <i>511,712</i>    | <i>694,580</i>    | <i>438,363</i>    | <i>462,550</i>    | <i>79,539</i>     | <i>244,898</i>    | <i>0.3%</i>   |
| <b>Natural Gas</b>           | <b>13,139,410</b> | <b>12,384,467</b> | <b>16,860,917</b> | <b>16,365,980</b> | <b>18,789,414</b> | <b>19,575,855</b> | <b>19,886,827</b> | <b>19,517,854</b> | <b>20,591,323</b> | <b>19,641,527</b> | <b>18,791,286</b> | <b>18,690,077</b> | <b>18,877,915</b> | <b>19,853,783</b> | <b>21.9%</b>  |
| <b>Renewable Energy (RE)</b> | <b>17,692,264</b> | <b>18,874,230</b> | <b>18,308,202</b> | <b>20,459,304</b> | <b>18,837,272</b> | <b>20,628,003</b> | <b>20,190,804</b> | <b>17,822,798</b> | <b>19,844,551</b> | <b>20,761,602</b> | <b>19,902,949</b> | <b>19,809,655</b> | <b>20,963,175</b> | <b>21,979,459</b> | <b>24.2%</b>  |
| <i>Geothermal</i>            | <i>9,822,444</i>  | <i>10,281,550</i> | <i>9,902,443</i>  | <i>10,465,279</i> | <i>10,214,688</i> | <i>10,722,780</i> | <i>10,323,847</i> | <i>9,929,152</i>  | <i>9,942,330</i>  | <i>10,249,990</i> | <i>9,604,598</i>  | <i>10,308,113</i> | <i>11,043,694</i> | <i>11,070,403</i> | <i>12.2%</i>  |
| <i>Hydro</i>                 | <i>7,869,820</i>  | <i>8,592,681</i>  | <i>8,386,773</i>  | <i>9,939,413</i>  | <i>8,563,433</i>  | <i>9,842,534</i>  | <i>9,787,567</i>  | <i>7,803,405</i>  | <i>9,697,532</i>  | <i>10,252,134</i> | <i>10,019,308</i> | <i>9,137,273</i>  | <i>8,665,078</i>  | <i>8,110,915</i>  | <i>8.9%</i>   |
| <i>Biomass</i>               | <i>0</i>          | <i>0</i>          | <i>0</i>          | <i>0</i>          | <i>0</i>          | <i>0</i>          | <i>13,710</i>     | <i>27,270</i>     | <i>115,274</i>    | <i>182,819</i>    | <i>211,973</i>    | <i>195,699</i>    | <i>367,456</i>    | <i>725,906</i>    | <i>0.8%</i>   |
| <i>Solar</i>                 | <i>0</i>          | <i>0</i>          | <i>1,517</i>      | <i>1,376</i>      | <i>1,309</i>      | <i>1,304</i>      | <i>1,252</i>      | <i>1,254</i>      | <i>1,212</i>      | <i>1,320</i>      | <i>1,414</i>      | <i>16,517</i>     | <i>138,534</i>    | <i>1,097,016</i>  | <i>1.2%</i>   |
| <i>Wind</i>                  | <i>0</i>          | <i>0</i>          | <i>17,469</i>     | <i>53,235</i>     | <i>57,842</i>     | <i>61,386</i>     | <i>64,428</i>     | <i>61,717</i>     | <i>88,204</i>     | <i>75,339</i>     | <i>65,655</i>     | <i>152,052</i>    | <i>748,414</i>    | <i>975,219</i>    | <i>1.1%</i>   |
| <b>Total Generation</b>      | <b>52,940,537</b> | <b>55,957,430</b> | <b>56,567,740</b> | <b>56,784,130</b> | <b>59,611,788</b> | <b>60,820,985</b> | <b>61,934,432</b> | <b>67,742,759</b> | <b>69,175,650</b> | <b>72,922,011</b> | <b>75,265,842</b> | <b>77,260,997</b> | <b>82,413,213</b> | <b>90,797,891</b> | <b>100.0%</b> |

Note:

Generation data includes grid connected, embedded and off-grid generator.

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