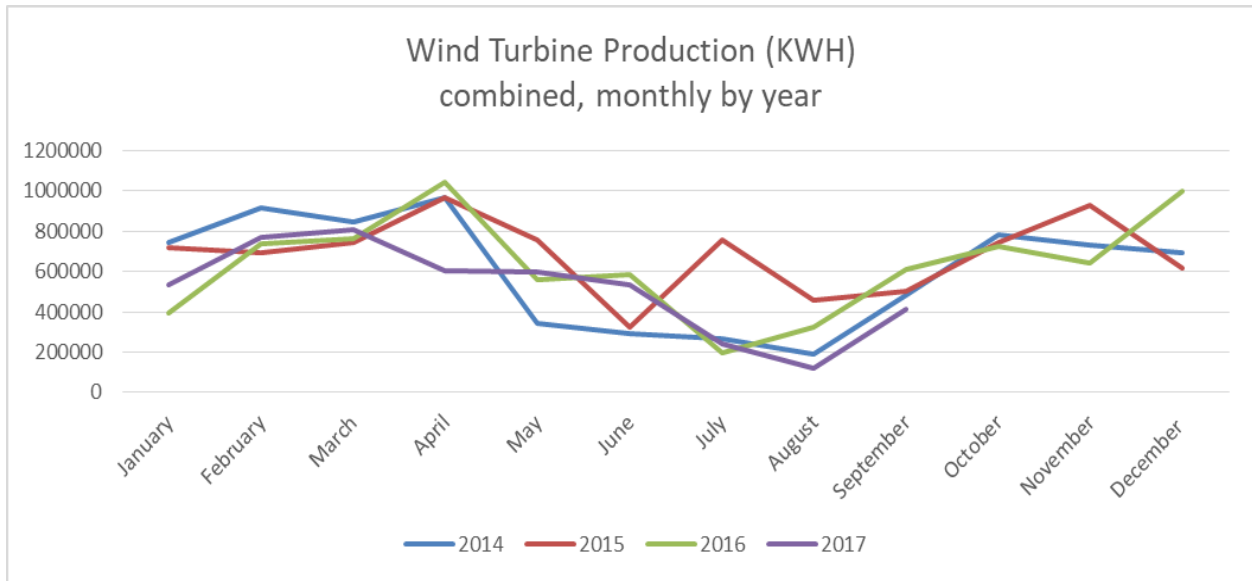




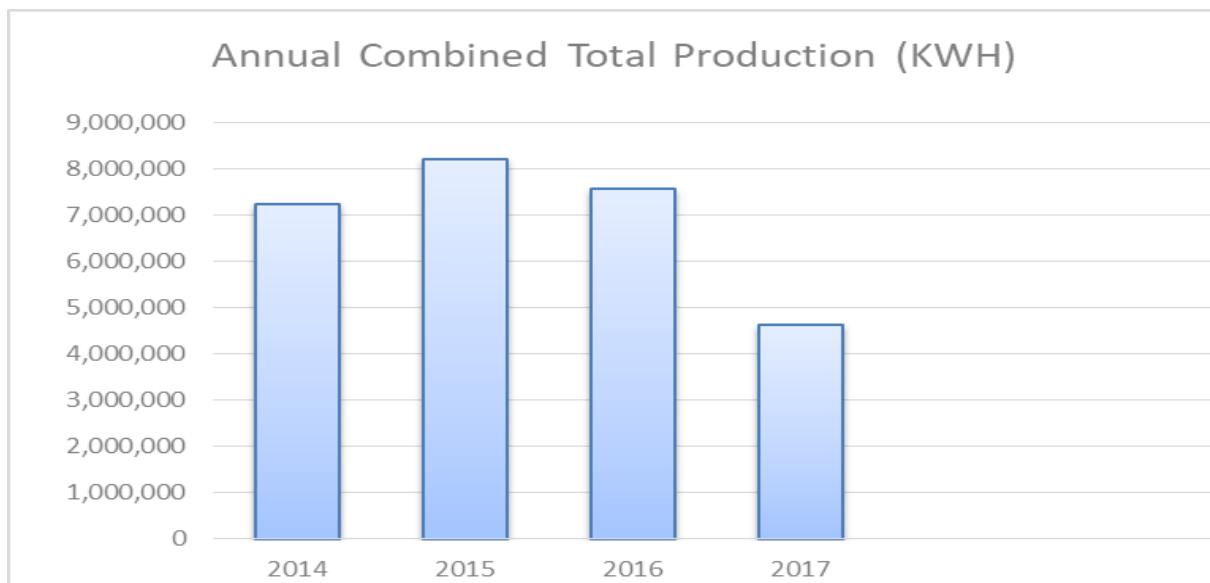
## WILLMAR MUNICIPAL UTILITIES

### September 2017 Wind Turbine Report



|                   | Production (KWH) |                  | Availability (%) |      | Total<br>KWH     | Major Outages   |
|-------------------|------------------|------------------|------------------|------|------------------|---|
|                   | #3               | #4               | #3               | #4   |                  |   |
| Sep. 2017         | 195,376          | 217,373          | 62.2             | 67.4 | 412,749          | #3 Control Software Malfunction<br>#4 Hydraulic System Overheated |
| Aug. 2017         | 118,543          | -                | 66.0             | 0.0  | 118,543          | #3 Control Software Malfunction<br>#4 Hydraulic System Overheated |
| July 2017         | 104,131          | 136,936          | 61.8             | 93.2 | 241,067          | #3 Control Software Malfunction                                   |
| June 2017         | 257,597          | 277,065          | 98.0             | 97.6 | 534,662          |   |
| May 2017          | 294,078          | 304,030          | 94.2             | 99.0 | 598,108          |   |
| Apr. 2017         | 299,044          | 302,779          | 86.8             | 86.3 | 601,823          |   |
| Mar. 2017         | 409,026          | 397,910          | 88.0             | 91.3 | 806,936          |   |
| Feb. 2017         | 385,543          | 385,684          | 94.5             | 95.8 | 771,227          |   |
| Jan. 2017         | 236,582          | 298,285          | 77.4             | 91.3 | 534,867          |   |
| Dec. 2016         | 467,905          | 531,073          | 92.9             | 93.4 | 998,977          |   |
| Nov. 2016         | 289,656          | 350,866          | 87.4             | 98.7 | 640,522          |   |
| Oct. 2016         | 324,972          | 402,407          | 87.7             | 98.6 | 727,379          |   |
| Sep. 2016         | 294,369          | 314,635          | 94.3             | 94.8 | 609,004          | #3 & #4 Semi-Annual Maintenance                                   |
| <b>2017 Total</b> | <b>2,299,920</b> | <b>2,320,062</b> |                  |      | <b>4,619,982</b> |   |

| Month        | 2014             | 2015             | 2016             | 2017             |  |  |
|--------------|------------------|------------------|------------------|------------------|--|--|
| January      | 745643           | 720369           | 393,477          | 534,867          |  |  |
| February     | 916093           | 695143           | 740,655          | 771,227          |  |  |
| March        | 848017           | 746045           | 761,028          | 806,936          |  |  |
| April        | 970215           | 965530           | 1,041,382        | 601,823          |  |  |
| May          | 340154           | 755889           | 557,947          | 598,108          |  |  |
| June         | 292744           | 324005           | 583,043          | 534,662          |  |  |
| July         | 264420           | 755889           | 199,043          | 241,067          |  |  |
| August       | 187490           | 457386           | 321,326          | 118,543          |  |  |
| September    | 480586           | 499215           | 609,004          | 412,749          |  |  |
| October      | 779328           | 744572           | 727,379          |                  |  |  |
| November     | 728534           | 929609           | 640,522          |                  |  |  |
| December     | 694570           | 616700           | 998,977          |                  |  |  |
| <b>Total</b> | <b>7,247,794</b> | <b>8,210,352</b> | <b>7,573,783</b> | <b>4,619,982</b> |  |  |



Fun fact: Wind power is also unique for the fact that it does not use any water. By 2030, wind power will save around 30 trillion bottles of water in the U.S.