

## AK Steel WER PRV Project Production Update: JUNE

### June 2016 Production:

- June 2016 Ancillary Usage\*: **15.48 kWh**
- June 2016 Turbine Production: **680,488 kWh**
- June 2016 Net Turbine Production: **680,473 kWh**

The table below shows monthly measured turbine energy production over the course of one year, July 2015 to June 2016. During the course of the year, there was a 24 hour shut down every six weeks and a 3 day shut down in May 2016.

Month	Net Turbine Production (kWh)
July	499,949
August	486,504
September	695,348
October	794,808
November	656,697
December	870,353
January	366,209
February	643,544
March	737,580
April	779,755
May	671,519
June	680,473
<b>Total Energy Generated</b>	<b>1,077 kW</b>
Percent of Goal**	58.0%
Days of Exemption	211.8
Months of Exemption	7.0

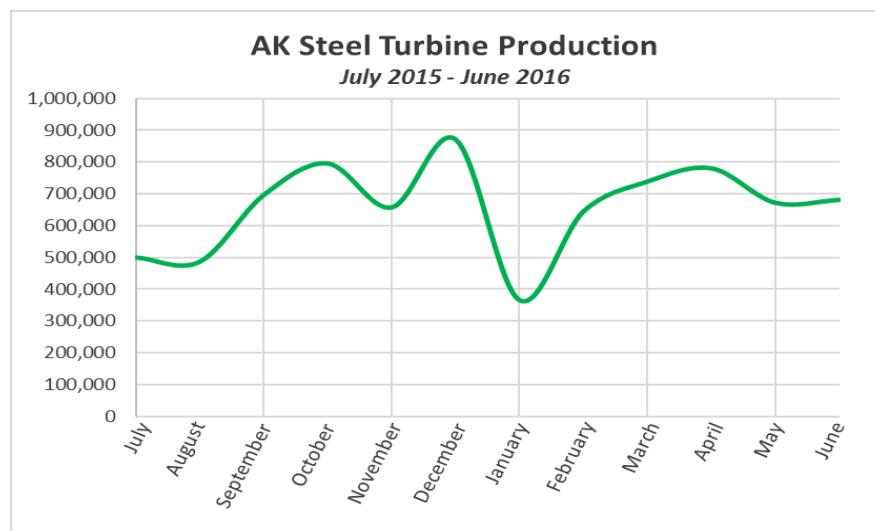
\*3 day shut down

\*\*Annual Energy Efficiency Savings Target is 13,585,594.6 kWh

In total, the turbine produced a net amount of about **1.08 MW**, exceeding the 1.05 MW scenario predicted. Turbine operation over the analysis period totaled 7,320 hours, used with kWh production to determine this net MW generation as shown in the following table.

Net kWh Generated	7,882,737 kWh
Hours in Analysis Period	7,320 hours
<b>kW Generation Scenario</b>	<b>1.05 MW</b>
<b>Net kW Generated = Net kWh Gen x hrs/yr</b>	
<b>Net kW Generated</b>	<b>1.077 MW</b>

The graph below shows the measured turbine production over time.



*Note:* From July 25<sup>th</sup> 2015 through August 3<sup>rd</sup> 2015 the PRV turbine was not operating due to the fact that AKS had their annual "Hot Side" downturn for maintenance. AK Steel had to run the turbine at a reduced production level for 2 weeks of August (about 660kw) of the 1.125 MW name plate capacity due to a downstream steam line issue.

\*Ancillary power for June is based on May's ancillary power and was calculated as average per day power draw.

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**7/26/2016 6:52:57 PM**

**in**

**Case No(s). 14-0146-EL-EEC**

Summary: Report June PRV Turbine energy production report. electronically filed by Mr. Lucas M Dixon on behalf of Plug Smart and The AK Steel Corporation