

Go to the url: <http://wind-for-schools.caesenergy.org>

WELCOME

WIND FOR SCHOOLS

SOLAR ENERGY

IF POWER

RENEWABLE ENERGY

USERS

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INL - RENEWABLE ENERGY



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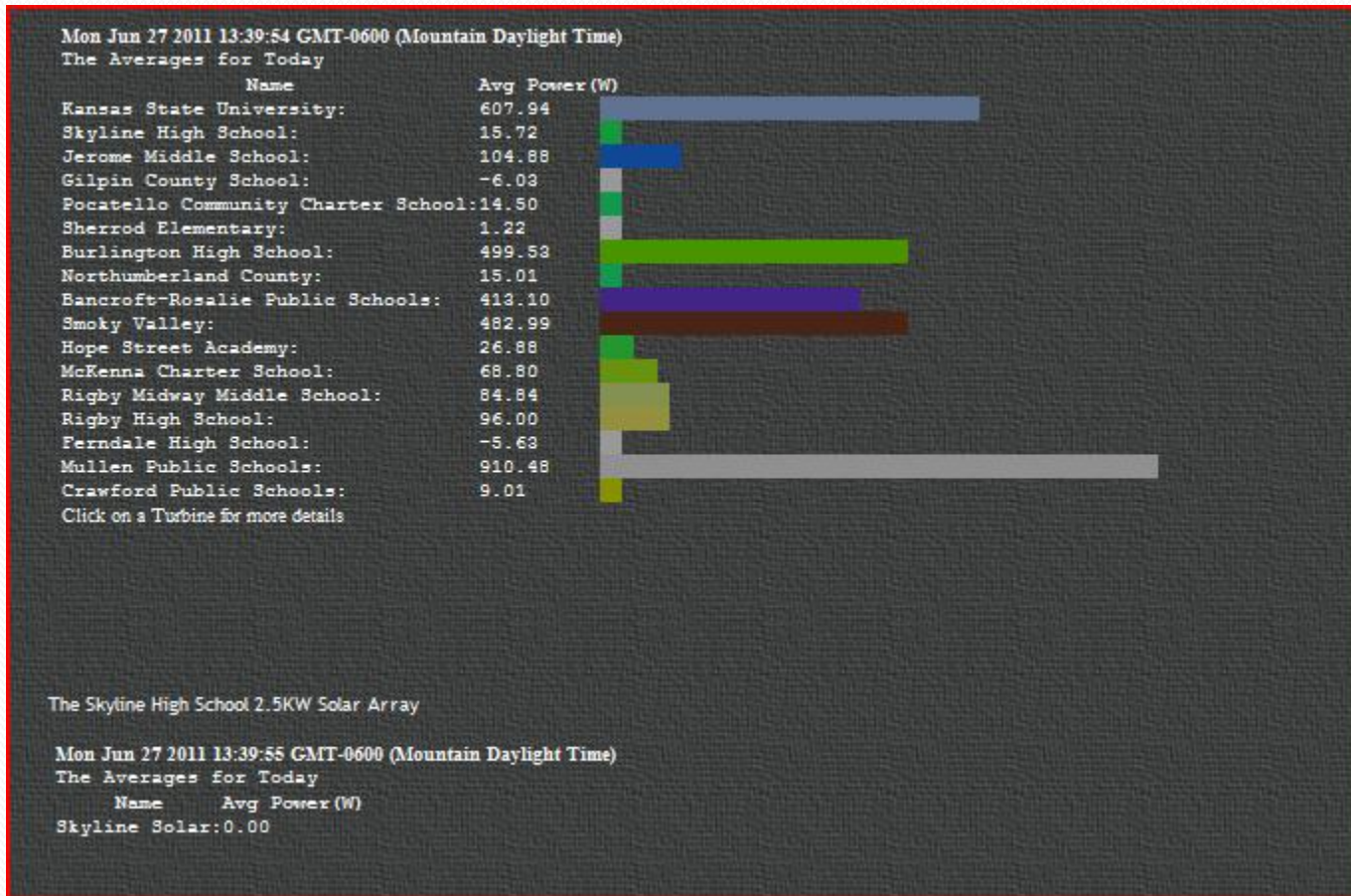
WELCOME TO THE WIND FOR SCHOOLS DATA LIBRARY

This site was established for the purpose of promoting renewable energy education and research. This site provides links to data, tools and information regarding energy generation from renewable resources such as, wind, solar and hydro. Where possible, real-time data from several sources is provided to promote education and research.

Wind Powering America sponsors the Wind for Schools project to raise awareness in rural America about the benefits of wind energy while simultaneously developing a wind energy knowledge base in future leaders of our communities, states, and nation. Here you will find information about the Wind for Schools project, where school wind projects are located across the United States, where you can find higher education or continuing education wind programs, teaching materials, and informational resources. The Boise State Wind Application Center has help many of the schools in Idaho obtain and install wind turbines for educational purposes.

Idaho Falls Power sponsors and provides the Hydro-dam power data. For more information regarding IFP contact Jackie Flowers, IFP Manager

Scroll down and find listing of schools with turbines. Pick and click on school /turbine of your choice to find data, (schools with long colored lines after the name are ones that are producing the most energy at the given time.)



Look on left hand side and choose “Get Turbine Data.”



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*** Jerome Middle School Current Readings ***

Last update:
Mon, 27 Jun 2011 19:57:13 GMT
Monday, June 27, 2011 1:57:13 PM
Status: Turbine:0000, System:0100, Grid:0000 *

power: 111 Watts
volts: 115.3 V
Turbine Speed: 141 RPM
Wind Speed: 4.00 m/s, 8.95 mph
Daily Energy: 0.75 KWatt-Hrs
Total Energy: 4662.79 KWatt-Hrs

*** Average Readings for last Ten Minutes ***

Avg power: 100.79 Watts
Avg rpm: 136.00
Avg wind: 3.84 m/s, 8.60 mph

* windspeed is for reference only

	Jerome	Average	Maximum	Units		Jerome	Average	Maximum	Units
		117.05	2333.00	Power Wa			261.18	4678.00	Power Wa
Period:		83.19	337.00	RPM		Period:	113.56	350.00	RPM
month		2.42	12.00	Wind m/s		year	3.40	33.00	Wind m/s

On this page choose again the school you want data from using the drop down box and then click on the amount of data you want to look at (we recommend last two hours). Click on submit.

Get Data from Server

Verbose: Terse:

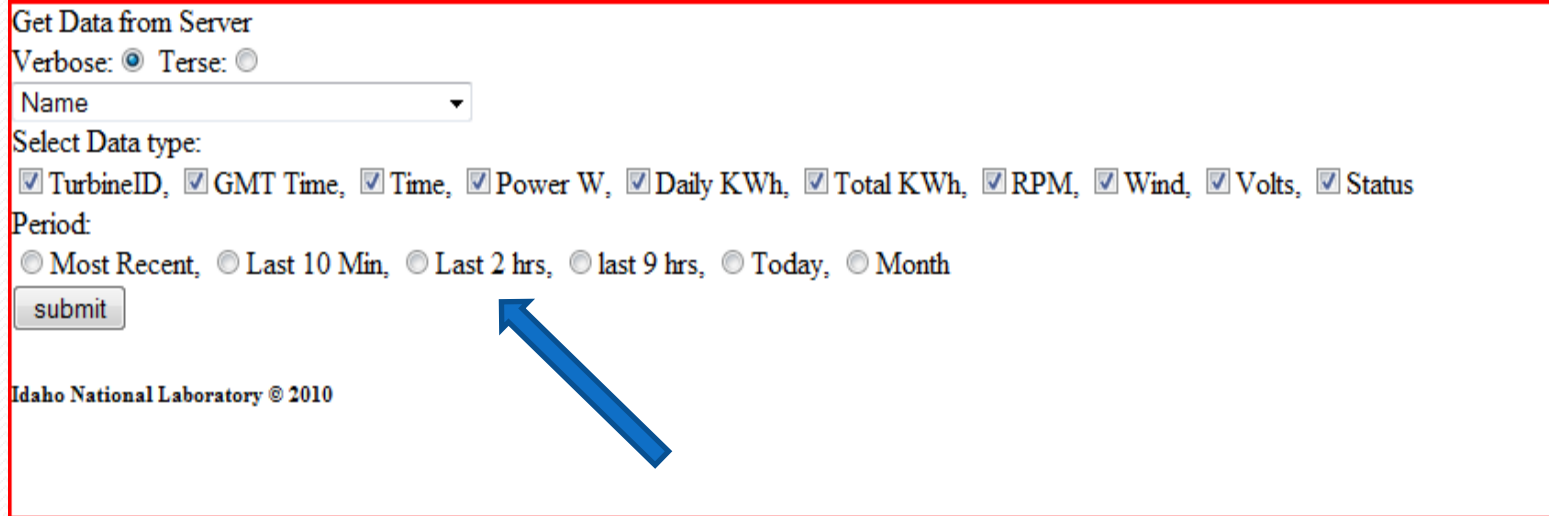
Select Data type:

TurbineID, GMT Time, Time, Power W, Daily KWh, Total KWh, RPM, Wind, Volts, Status

Period:

Most Recent, Last 10 Min, Last 2 hrs, last 9 hrs, Today, Month

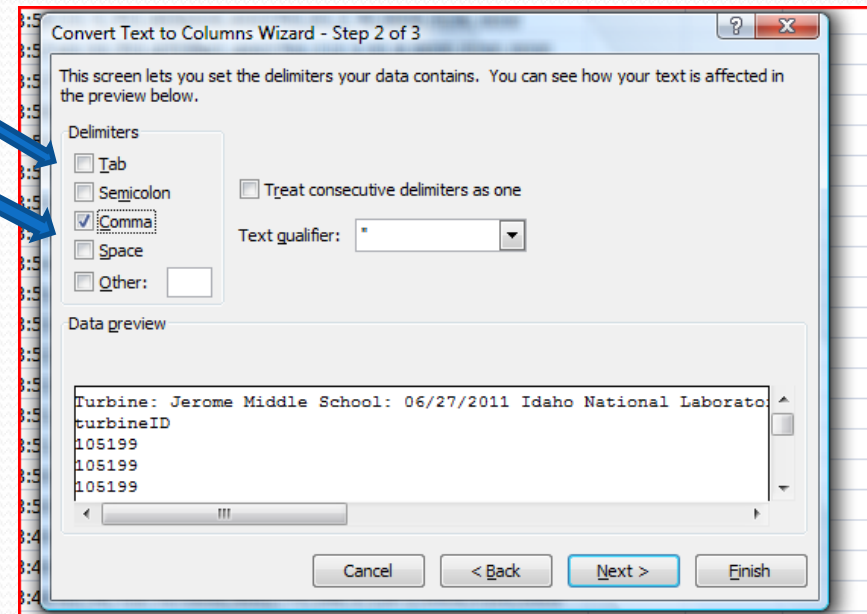
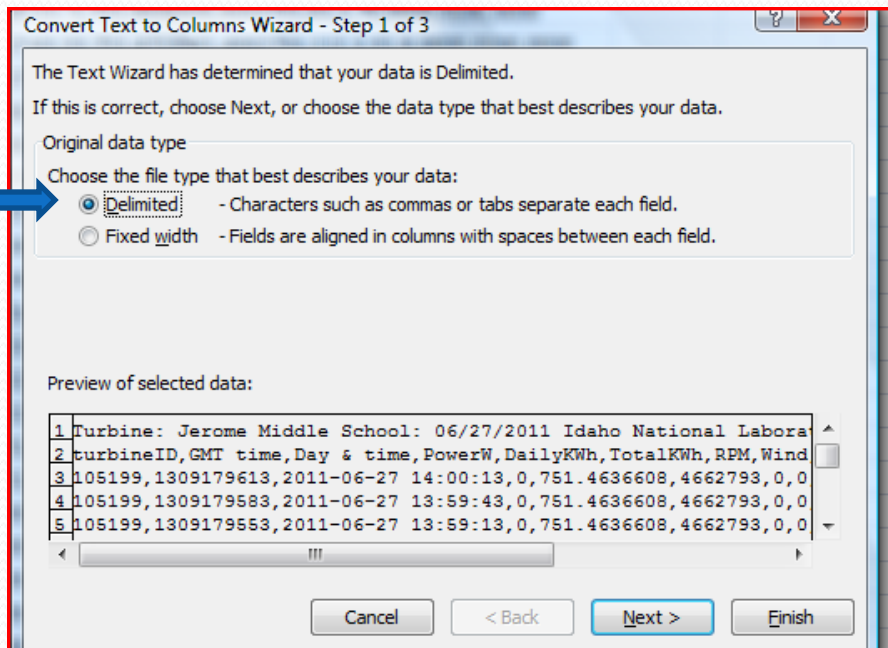
Idaho National Laboratory © 2010



On this page right click and choose select all and then copy. Now open an excel document and paste.

Turbine: Jerome Middle School: 06/27/2011 Idaho National Laboratory © 2010
turbineID,GMT time,Day & time,PowerW,DailyKWh,TotalKWh,RPM,Wind,Volts,Tstat,Sstat,Gstat
105199,1309179613,2011-06-27 14:00:13,0,751.4636608,4662793,0,0,31,0001,0000,1000
105199,1309179583,2011-06-27 13:59:43,0,751.4636608,4662793,0,0,35.2,0001,0000,1000
105199,1309179553,2011-06-27 13:59:13,0,751.4636608,4662793,0,0,41,0001,0000,1000
105199,1309179523,2011-06-27 13:58:43,0,751.4636608,4662793,21,1,47.4,0001,0000,1000
105199,1309179493,2011-06-27 13:58:13,-1,751.4636608,4662793,83,2,70,0008,0100,0000
105199,1309179463,2011-06-27 13:57:43,33,751.4719941,4662793,112,3,91.8,0000,0100,0000
105199,1309179433,2011-06-27 13:57:13,111,751.1969952,4662793,141,4,115.3,0000,0100,0000
105199,1309179403,2011-06-27 13:56:43,18,750.2719989,4662792,93,3,77.3,0000,0100,0000
105199,1309179373,2011-06-27 13:56:13,11,750.1219995,4662792,101,3,84,0000,0100,0000
105199,1309179343,2011-06-27 13:55:43,18,750.0303332,4662792,103,3,83.8,0000,0100,0000
105199,1309179313,2011-06-27 13:55:13,260,749.8803338,4662791,185,5,147.6,0000,0100,0000
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First step of “Text to Column” click on delimited then, next (on bottom). Second step, unclick tab and click on comma, then click finish.



This is what your finished excel document will look like. Power W column is the energy output and wind column is wind speed.

	A	B	C	D	E	F	G	H	I	J	K	L
2	turbineID	GMT time	Day & time	PowerW	DailyKWh	TotalKWh	RPM	Wind	Volts	Tstat	Sstat	Gstat
3	105199	1.31E+09	6/27/2011 14:00	0	751.4637	4662793	0	0	31	1	0	1000
4	105199	1.31E+09	6/27/2011 13:59	0	751.4637	4662793	0	0	35.2	1	0	1000
5	105199	1.31E+09	6/27/2011 13:59	0	751.4637	4662793	0	0	41	1	0	1000
6	105199	1.31E+09	6/27/2011 13:58	0	751.4637	4662793	21	1	47.4	1	0	1000
7	105199	1.31E+09	6/27/2011 13:58	-1	751.4637	4662793	83	2	70	8	100	0
8	105199	1.31E+09	6/27/2011 13:57	33	751.472	4662793	112	3	91.8	0	100	0
9	105199	1.31E+09	6/27/2011 13:57	111	751.197	4662793	141	4	115.3	0	100	0
10	105199	1.31E+09	6/27/2011 13:56	18	750.272	4662792	93	3	77.3	0	100	0
11	105199	1.31E+09	6/27/2011 13:56	11	750.122	4662792	101	3	84	0	100	0
12	105199	1.31E+09	6/27/2011 13:55	18	750.0303	4662792	103	3	83.8	0	100	0
13	105199	1.31E+09	6/27/2011 13:55	260	749.8803	4662791	185	5	147.6	0	100	0
14	105199	1.31E+09	6/27/2011 13:54	142	747.7137	4662789	153	4	123.3	0	100	0
15	105199	1.31E+09	6/27/2011 13:54	84	746.5303	4662788	133	4	106.3	0	100	0
16	105199	1.31E+09	6/27/2011 13:53	135	745.8304	4662787	151	4	121.8	0	100	0
17	105199	1.31E+09	6/27/2011 13:53	58	744.7054	4662786	122	3	99.3	0	100	0
18	105199	1.31E+09	6/27/2011 13:52	129	744.222	4662785	149	4	120	0	100	0
19	105199	1.31E+09	6/27/2011 13:52	120	743.147	4662785	146	4	117.2	0	100	0