Introduction

A 50 m measuring tower has been erected at Nanortalik Heliport. The aim is to map the wind resources at Nanortalik as part of the Vest-Norden project. The Vest-Norden project aims to introduce renewable energy sources in combination with hydrogen for energy storage for distant settlements. The mast has been operative since July 1st 2007. This note will summarize the measurements per August 25th 2008. The measurements will continue for another year. The site will be referred to as 6101 Nanortalik.

Sensors

The mast is equipped with the sensors listed in Table 1. The different anemometers have different characteristics regarding precision. The measurements by the Risø P2546A sensor are given an uncertainty of less than 1%. The measuring range is 0.3-70 m/s. The NRG #40 has an accuracy of 0.1 m/s within the range 5-25 m/s. The measuring range is from 0.35 m/s. 6101 Nanortalik is equipped with heated sensors that can be valuable in case of icing episodes which can stop or slow down the unheated anemometers. However the precision of the heated anemometer is lower then for the others. The uncertainty of the NRG Icefree III is 4-5%. The measuring range starts at 1 m/s for this anemometer. The icefree anemometer is not calibrated, but an offset value will be calculated by comparing the icefree anemometer to the other anemometers for a period without icing.

Table 1 Sensors mounted at 6101 Nanortalik

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Height [m]</th>
</tr>
</thead>
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<td>Wind Speed</td>
<td>NRG #40</td>
<td>48.8</td>
</tr>
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<td>Wind Speed</td>
<td>NRG #40</td>
<td>30.0</td>
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<td>NRG Icefree III</td>
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<td>NRG #200P</td>
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</table>
A preliminary analysis of the wind measurements at Nanortalik

A picture of the mast is shown in Figure 1. The sensors are mounted on booms with a distance of at least 120cm from the mast-centre. This is done to minimize the influence of the mast itself on the measurements. The sensors are also mounted about 50cm higher than the boom itself to minimize the influence of the boom on the measurements. The predominant wind directions have to some degree been analyzed upfront of the installation of the mast so that any influence from the mast, boom and lightning rod on the measurements will be at the sectors with the least frequent winds. Although these precautions have been made to minimize external influence on the measurements it can not be totally avoided. All sensors except those at the top of the mast will be influenced by the mast itself for certain wind directions.

The logger has been set up to transfer all data on a daily basis. The data is sent by email by a telephone modem included in the logger. The data returned are 10 minute averages, maximum value, minimum value and standard deviation.

Figure 1 the 50m met mast 6101 Nanortalik

Summary of measurements

The data coverage has been good for the measurement period (99.96 %). We have analyzed the data with regard to icing. Icing has been identified for a total of 63 hours during the measuring period. Icing is not found to be a large problem at this site.
Table 2 shows the annual averages for the different sensors. We see that the icefree sensor gives a higher value that the other sensors at this height. The data from the ice free sensors need to be calibrated toward one of the other sensors (on-site calibration) in order to use the data for further analysis. This is a common methodology used for the data from the ice free anemometer. Since icing on the instruments is a minor problem at this site we will in this note only consider the data from the unheated anemometers, excluding the hours where icing is identified, for better precision. The anemometers at 48.8 meters differs by 0.2 m/s. The annual average for the Risø anemometer is found to be 6.4 m/s, while for the NRG anemometer it is 6.2 m/s. The NRG anemometer at 30m also gives 6.2 m/s as the annual average, one would expect the average value to be higher at 50m than at 30m. It is likely that the annual average found for the NRG anemometer at 48.8m height is somewhat lower then the actual value. Risø’s 6.4m/s is probably a more accurate estimate of the annual wind speed at 48.8m height.

We find that for all instruments the 99 percentile value is at around 20m/s or less. 25 m/s is a typical cut-out speed for turbines. For higher values than the cut-out speed the power production is stopped. We do find that the maximum measured value is higher than 25m/s. But from these data power production losses due to too high wind speed will be quite low.

### Table 2

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<th>annual average</th>
<th>99 percentile</th>
<th>maximum</th>
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<td>19.7 m/s</td>
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### Table 3

Table 3 Monthly averages for the Risø anemometer at 48.8 m height based on data for the period July 1 2007 - August 25 2008.

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Table 3 shows the monthly variation in wind speed. The highest wind speeds are found for the winter season (September-March), while the average wind speed is clearly lower for the summer months (May-August).

The wind rose at 6101 Nanortalik is shown in Figure 2. The dominant wind direction is from sector 2 (N-NE) with a frequency of approximately 30%. The opposite sector (sector 8) also has a relatively high frequency. However, the wind from these sectors are generally related to low wind speed, generally less than 10m/s. Quite large frequency is also found for wind from sector 4 (E), sector 12 (N-NW) and sector 1(N). Winds from these sectors are generally related to higher wind speed and may thus be more relevant for wind power production. The distribution for each sector is shown in Figure 3.

The distribution for all sectors is shown in Figure 4, the estimated weibull distribution is also shown. We see some clear discrepancies between the estimated weibull distribution and the measurements. We find large frequency of measurements in the range 3-6 m/s. This is typically a range with little power production. While for the range 7-11 m/s the measurements shows less frequency than the weibull function estimates. By using this to estimate the power production we see that the measured frequency distribution is less optimal for wind power production than the estimated weibull-function. One should keep this in mind if estimating power production by using the annual mean value.
Figure 3 Distribution of wind speed for 12 sectors, and calculated weibull distribution for each sector. Sector 1 is north (345°-15°), each sector covers 30° in clockwise direction. The distribution is calculated using the Risø anemometer at 48.8 m and NRG icefree wind wane at 47.2 m height.
Figure 4: Distribution of wind speed and calculated Weibull distribution for 6101 Nanortalik. The distribution is calculated using the Risø anemometer at 48.8 m and NRG icefree wind wane at 47.2 m height.

Possible reference data

Possible reference data for this site can be the WMO met station also located at Nanortalik Heliport. These data can give valuable information about the long term expected wind climate at Nanortalik. We have not been able to collect those data, but it should be considered for the main report for this site.

Data from NCEP/NCAR reanalysis has been evaluated for this site, but not found to be representative for Nanortalik.

Summary

Icing has been a minimal problem at this site during 1 year of observations. Annual average wind speed has been measured to 6.4 m/s at 50m height. The main wind direction is from sector 2, with large members also from sectors 1 and 12. The distribution of the wind speed measurements appears to be less optimal for wind power production than the estimated Weibull distribution. This must be considered when estimating power production using the mean value with a Weibull distribution.
### Site Information:
- **Project:** Nanortalik kommune
- **Location:** Grønnland
- **Elevation:**

### Sensor Information:
1. NRG #40 Anem. 48m
2. NRG #40 Anem. 30 m
3. NRG #40 Anem. 10 m
4. Riso 48 M
5. NRG IceFreeIII 47m
6. No SCM Installed
7. NRG IceFree III 47m
8. #200P Wind Vane 41m
9. NRG #110S Temp C
10. No SCM Installed
11. No SCM Installed
12. VOLT

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Site Information:
Project: Nanortalik kommune
Location: Grønlund
Elevation:

Sensor on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Average Hourly Values

Average Value: 4.1

Generated 7. august 2007
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100
NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 4.1

Days

Values in m/s

juli 2007
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik

Generated 7. august 2007
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønland
Elevation: 

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

Average Hourly Values

Average Value: 3.8

Generated 7. august 2007
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08
**Site Information:**
- Project: Nanortalik kommune
- Location: Grønnland
- Elevation:

**Sensor on channel 4:**
- Riso 48 M
- Height: 48.8 m
- Serial #: SN:2623

**juli 2007**
**Hourly Averages Graph Ch 4**
SITE 1601
Nanortalik

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**Average Hourly Values**

- **Values in m/s**
- **Days**
- **Average Value: 4.2**

Generated 7. august 2007
Total 10-minute intervals: 4464   Intervals used in calculations: 4464   Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

juli 2007
Hourly Averages Graph Ch 5
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 4.6

Values in m/s

Days

Generated 7. august 2007
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.08
Wind Rose Ch 1, 8
SITE 1601
Nanortalik

Percent of Total Wind Energy

Percent of Total Time

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: for speeds greater than 4.5 m/s

Anemometer on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Vane on channel 8:
#200P Wind Vane 41m
Height: 41.4 m
Serial #: SN:1313

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 40%

Percent of Total Wind Energy
Percent of Total Time
Average Hourly Values

Average Value: 6.7

Generated 7. august 2007
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100 NRG Systems SDR Version 5.08
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Wind Speed Direction

SSW NE

generated 19. december 2007

NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

august 2007
Hourly Averages Graph Ch 1
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 5.6

Values in m/s

Days

Generated 19. desember 2007
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
- Project: Nanortalik kommune
- Location: Grønnland
- Elevation: 

Sensor on channel 2:
- NRG #40 Anem. 30 m
- Height: 30 m
- Serial #: SN: 0509

august 2007
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 5.7

Values in m/s

Days

Generated 19. desember 2007
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

august 2007
Hourly Averages Graph Ch 3
SITE 1601
Nanortalik

Average Hourly Values

Values in m/s
0 5 10 15 20 25 30 35 40 45 50 55

Days
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Average Value: 5.0

Generated 19. desember 2007
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

august 2007
Hourly Averages Graph Ch 4
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 5.9

Days

Values in m/s

Generated 19. desember 2007
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

august 2007
Hourly Averages Graph Ch 5
SITE 1601
Nanortalik

Average Hourly Values

Values in m/s

Days

Average Value: 6.4
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Vane on channel 8:
#200P Wind Vane 41m
Height: 41.4 m
Serial #: SN:1313

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 60%

Percent of Total Wind Energy
Percent of Total Time
august 2007
Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 60%

- Percent of Total Wind Energy
- Percent of Total Time

Generated 19. desember 2007
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 9:
NRG #110S Temp C
Height: 0
Serial #: SN:

august 2007
Hourly Averages Graph Ch 9
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 8.2
### Site Information:
- **Project:** Nanortalik kommune
- **Location:** Grønnland
- **Elevation:**

### Sensor Information:

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### Wind Speed Direction

- **Wind Speed Direction:** NNE, NNW
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Average Hourly Values

Average Value: 6.9

Generated 19. desember 2007
Total 10-minute intervals: 4320  Intervals used in calculations: 4320  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

September 2007
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 6.9

Generated 19. december 2007
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100
NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 6.1

Generated 19. desember 2007
Total 10-minute intervals: 4320  Intervals used in calculations: 4320  Percent data used: 100  
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

Average Hourly Values

Average Value: 7.2

Days

Values in m/s

Generated 19. desember 2007
Total 10-minute intervals: 4320  Intervals used in calculations: 4320  Percent data used: 100
NRG Systems SDR Version 5.08
Nanortalik kommune
Grønnland
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Vane on channel 8:
#200P Wind Vane 41m
Height: 41.4 m
Serial #: SN:1313

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 60%

---

Percent of Total Wind Energy
Percent of Total Time

Generated 19. december 2007
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
- Project: Nanortalik kommune
- Location: Grønnland
- Elevation: for speeds greater than 4.5 m/s

Anemometer on channel 5:
- NRG IceFreeIII 47m
- Height: 47.5 m
- Serial #: SN:12642

Vane on channel 7:
- NRG IceFree III 47m
- Height: 47.2 m
- Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
- Inner Circle = 0%
- Outer Circle = 60%

- Percent of Total Wind Energy
- Percent of Total Time
SITE Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 9:
NRG #110S Temp C
Height: 0
Serial #: SN:

September 2007
Hourly Averages Graph Ch 9
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 5.8

Generated 19. December 2007
Total 10-minute intervals: 4320 Intervals used in calculations: 4320 Percent data used: 100
NRG Systems SDR Version 5.08
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Average Hourly Values

Values in m/s

Days

Average Value: 6.5

Generated 19. december 2007

Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100

NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

oktober 2007
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 6.5

Generated 19. desember 2007
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

oktober 2007
Hourly Averages Graph Ch 3
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 5.8

Days
Values in m/s

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

Average Hourly Values

Average Value: 6.6

oktober 2007
Hourly Averages Graph Ch 4
SITE 1601
Nanortalik

NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

oktober 2007
Hourly Averages Graph Ch 5
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 7.5
oktober 2007
Wind Rose Ch 1, 8
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Vane on channel 8:
#200P Wind Vane 41m
Height: 41.4 m
Serial #: SN:1313

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 30%

- Percent of Total Wind Energy
- Percent of Total Time
Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 40%

Percent of Total Wind Energy
Percent of Total Time
### Channel Parameters

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**Generated 19. december 2007**

NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

November 2007
Hourly Averages Graph Ch 1
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 7.2

Generated 19. desember 2007
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

Average Hourly Values

Average Value: 7.1

Generated 19. december 2007
Total 10-minute intervals: 4320   Intervals used in calculations: 4320   Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

November 2007
Hourly Averages Graph Ch 3
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 6.3
Average Hourly Values

Average Value: 7.3

Values in m/s

Days

Generated 19. december 2007
Total 10-minute intervals: 4320   Intervals used in calculations: 4320   Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

November 2007
Hourly Averages Graph Ch 5
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 8.2

Values in m/s

Days

Generated 19. decembe 2007
Total 10-minute intervals: 4320  Intervals used in calculations: 4320  Percent data used: 100  NRG Systems SDR Version 5.08
Wind Rose Ch 1, 8
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Vane on channel 8:
#200P Wind Vane 41m
Height: 41.4 m
Serial #: SN:1313

Outer Numbers are Average TIs
for speeds greater than 4.5 m/s

Inner Circle = 0%
Outer Circle = 30%

[Diagram of wind rose]

Percent of Total Wind Energy

Percent of Total Time

Generated 19. desember 2007
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100

NRG Systems SDR Version 5.08
November 2007

Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 5:
NRG IceFree III 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2 m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 40%

- Black: Percent of Total Wind Energy
- Gray: Percent of Total Time

- N: 0.11
- E: 0.11
- S: 0.14
- W: 0.20
- N: 0.12
- E: 0.08
- S: 0.10
- W: 0.15

Generated 19. desember 2007
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100

NRG Systems SDR Version 5.08
Average Hourly Values

Days

Values in C

0 2 4 6 8 10 12

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Average Value: 0.6

Generated 19. december 2007
Total 10-minute intervals: 4320   Intervals used in calculations: 4320   Percent data used: 100
NRG Systems SDR Version 5.08

Site Information:
Project:  Nanortalik kommune
Location:  Grønnland
Elevation:  

Sensor on channel 9:
NRG #110S Temp C
Height:  0
Serial #:  SN:

november 2007
Hourly Averages Graph Ch 9
SITE 1601
Nanortalik
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Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Average Hourly Values

Average Value: 7.7

Generated 1. februar 2008
Total 10-minute intervals: 4464   Intervals used in calculations: 4464   Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønland
Elevation: 

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

Average Hourly Values

Average Value: 7.7

Values in m/s

Days

NRG Systems SDR Version 5.08
Generated 1. februar 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

Average Hourly Values

Average Value: 6.9

Generated 1. februar 2008
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

Average Hourly Values

Values in m/s

Days

Average Value: 7.9

Generated 1. februar 2008
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100
NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 8.9

Generated 1. februar 2008
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100

NRG Systems SDR Version 5.08
desember 2007
Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2 m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 60%

- Percent of Total Wind Energy
- Percent of Total Time
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**Wind Speed Direction**

- NE
- NE
Average Hourly Values

Average Value: 6.8
Average Hourly Values

Average Value: 6.7

Generated 10. mars 2008
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.08

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

januar 2008
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

Average Hourly Values

Values in m/s

Days

Average Value: 6.0

Generated 10. mars 2008
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 7.0
Average Hourly Values

Average Value: 7.9

Generated 10. mars 2008
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 9:
NRG #110S Temp C
Height: 0
Serial #: SN:

januar 2008
Hourly Averages Graph Ch 9
SITE 1601
Nanortalik

Average Hourly Values

Days

Values in °C

Average Value: -6.8

Generated 10. mars 2008
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.08
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Average Hourly Values

Average Value: 8.4

Days

Values in m/s

Generated 10. mars 2008
Total 10-minute intervals: 4176  Intervals used in calculations: 4152  Percent data used: 99.4
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

februar 2008
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik

Average Hourly Values

Days

Values in m/s

Average Value: 8.2

Generated 10. mars 2008
Total 10-minute intervals: 4176
Intervals used in calculations: 4152
Percent data used: 99.4
NRG Systems SDR Version 5.08
Average Hourly Values

Values in m/s

Average Value: 7.4

Days

Total 10-minute intervals: 4176  Intervals used in calculations: 4152  Percent data used: 99.4

NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

februar 2008
Hourly Averages Graph Ch 4
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 8.6

Generated 10. mars 2008
Total 10-minute intervals: 4176  Intervals used in calculations: 4152  Percent data used: 99.4
NRG Systems SDR Version 5.08
**Site Information:**
- Project: Nanortalik kommune
- Location: Grønnland
- Elevation:

**Sensor on channel 5:**
- NRG IceFreeIII 47m
- Height: 47.5 m
- Serial #: SN:12642

---

**februar 2008**
Hourly Averages Graph Ch 5
SITE 1601
Nanortalik

---

**Average Hourly Values**

Average Value: 9.5

Generated 10. mars 2008
Total 10-minute intervals: 4176
Intervals used in calculations: 4152
Percent data used: 99.4

NRG Systems SDR Version 5.08
februar 2008
Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: for speeds greater than 4.5 m/s

Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 40%

Percent of Total Wind Energy
Percent of Total Time
### Site Information:
**Project:** Nanortalik kommune  
**Location:** Grønnland

### Sensor Information:
1. NRG #40 Anem. 48m  
2. NRG #40 Anem. 30 m  
3. NRG #40 Anem. 10 m  
4. Riso 48 M  
5. NRG IceFreeIII 47m  
6. No SCM Installed  
7. NRG IceFree III 47m  
8. #200P Wind Vane 41m  
9. NRG #110S Temp C  
10. No SCM Installed  
11. No SCM Installed  
12. VOLT

### mars 2008 Summary Report
**SITE 1601**  
Nanortalik

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<td>Wind Speed Direction</td>
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Generated 17. april 2008

NRG Systems SDR Version 5.10
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

mars 2008
Hourly Averages Graph Ch 1
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 7.2

Generated 17. april 2008
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.10
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

mars 2008
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik

Average Hourly Values

Values in m/s

Days

Average Value: 7.2

Generated 17. april 2008
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100
NRG Systems SDR Version 5.10
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

mars 2008
Hourly Averages Graph Ch 3
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 6.1

Days
Values in m/s

Generated 17. april 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.10
Site Information:
Project: Nanortalik kommune
Location: Grønland
Elevation: 

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

mars 2008
Hourly Averages Graph Ch 4
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 7.4

Generated 17. april 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.10
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Average Hourly Values

Days

Average Value: 8.2

Generated 17. april 2008
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
NRG Systems SDR Version 5.10
**Site Information:**
- **Project:** Nanortalik kommune
- **Location:** Grønnland

**Anemometer on channel 1:**
- **NRG #40 Anem. 48m**
- **Height:** 48.8 m
- **Serial #:** SN:0510

**Vane on channel 8:**
- **#200P Wind Vane 41m**
- **Height:** 41.4 m
- **Serial #:** SN:1313

Outer Numbers are Average TIs for speeds greater than 4.5 m/s

Inner Circle = 0%
Outer Circle = 40%

- Black: Percent of Total Wind Energy
- Gray: Percent of Total Time
Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2 m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 40%

Percent of Total Wind Energy
Percent of Total Time

Generated 17. april 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.10
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 9:
NRG #110S Temp C
Height: 0
Serial #: SN:

mars 2008
Hourly Averages Graph Ch 9
SITE 1601
Nanortalik

Average Hourly Values

Average Value: -3.2

Generated 17. april 2008
Total 10-minute intervals: 4464   Intervals used in calculations: 4464   Percent data used: 100
NRG Systems SDR Version 5.10
### Channel Height

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<td>C</td>
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Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

april 2008
Hourly Averages Graph Ch 1
SITE 1601
Nanortalik

Average Hourly Values

Values in m/s

Days

Average Value: 5.7

Generated 6. mai 2008
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

Nanortalik

april 2008
Hourly Averages Graph Ch 2
SITE 1601

Average Hourly Values

Average Value: 5.7

Generated 6. mai 2008
Total 10-minute intervals: 4320   Intervals used in calculations: 4320   Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

april 2008
Hourly Averages Graph Ch 3
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 4.9

Days
Values in m/s

0 5 10 15 20 25 30 35 40 45 50 55
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Generated 6. mai 2008
Total 10-minute intervals: 4320  Intervals used in calculations: 4320  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation: 

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

Average Hourly Values

Values in m/s

Days

Average Value: 5.9

Generated 6. mai 2008
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønland
Elevation:

Sensor on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

april 2008
Hourly Averages Graph Ch 5
SITE 1601
Nanortalik

Average Hourly Values

Values in m/s

Days

Average Value: 6.7

Generated 6. mai 2008
Total 10-minute intervals: 4320  Intervals used in calculations: 4320  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Vane on channel 8:
#200P Wind Vane 41m
Height: 41.4 m
Serial #: SN:1313

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 50%

- Percent of Total Wind Energy
- Percent of Total Time
Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 40%

Percent of Total Wind Energy
Percent of Total Time

Generated 6. mai 2008
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 9:
NRG #110S Temp °C
Height: 0
Serial #: SN:

april 2008
Hourly Averages Graph Ch 9
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 1.5

Generated 6. mai 2008
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100
NRG Systems SDR Version 5.08
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<td>23:20:00</td>
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<td>08:40:00</td>
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<td>0.2</td>
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<td>Wind Speed Direction</td>
<td>NNE</td>
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**Site Information:**
- **Project:** Nanortalik kommune
- **Location:** Grønnland
- **Elevation:**

**Sensor Information:**
1. NRG #40 Anem. 48m
2. NRG #40 Anem. 30 m
3. NRG #40 Anem. 10 m
4. Riso 48 M
5. NRG IceFreeIII 47m
6. No SCM Installed
7. NRG IceFree III 47m
8. #200P Wind Vane 41m
9. NRG #110S Temp C
10. No SCM Installed
11. No SCM Installed
12. VOLT

**Summary Report**
SITE 1601
Nanortalik

**Generated:** 10. juni 2008
**NRG Systems SDR Version:** 5.08
Average Hourly Values

Values in m/s

Days

Average Value: 5.0

Generated 10. juni 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 5.0

Days

Values in m/s

0 5 10 15 20 25 30 35 40 45 50 55

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

maï 2008
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik

Generated 10. juni 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 4.5

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 3:
NRG #40 Anem. 10 m
Height: 10 m
Serial #: SN: 0508

ma 2008
Hourly Averages Graph Ch 3
SITE 1601
Nanortalik

Generated 10. juni 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

ma 2008
Hourly Averages Graph Ch 4
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 5.1
Average Hourly Values

Average Value: 5.8

Generated 10. juni 2008
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100
NRG Systems SDR Version 5.08
mai 2008
Wind Rose Ch 1, 8
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Vane on channel 8:
#200P Wind Vane 41m
Height: 41.4 m
Serial #: SN:1313

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 70%

Percent of Total Wind Energy
Percent of Total Time
Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Percent of Total Wind Energy
Percent of Total Time

Outer Numbers are Average TIs
Inner Circle = 0%
Outer Circle = 60%

Project: Nanortalik kommune
Location: Grønnland

Site Information:
Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2 m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 60%

May 2008
NRG Systems SDR Version 5.08
Generated 10. juni 2008
Total 10-minute intervals: 4464
Intervals used in calculations: 4464
Percent data used: 100
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 9:
NRG #110S Temp C
Height: 0
Serial #: SN:

Average Hourly Values

Average Value: 3.8
### Site Information:
- **Project:** Nanortalik kommune
- **Location:** Grønnland
- **Elevation:**

### Sensor Information:

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<td>10 m</td>
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<td>m/s</td>
<td>m/s</td>
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<td>deg</td>
<td>C</td>
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<td>NNE</td>
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</table>
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Average Hourly Values

Average Value: 4.0

Days

Values in m/s

NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 4.3

Generated 15. august 2008
Total 10-minute intervals: 4320   Intervals used in calculations: 4320   Percent data used: 100
NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 4.2

Generated 15. august 2008
Total 10-minute intervals: 4320   Intervals used in calculations: 4320   Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

juni 2008
Hourly Averages Graph Ch 5
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 4.9

Generated 15. august 2008
Total 10-minute intervals: 4320  Intervals used in calculations: 4320  Percent data used: 100
NRG Systems SDR Version 5.08
Wind Rose Ch 1, 8
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 1:
NRG #40 Anem. 48m
Height: 48.8 m
Serial #: SN:0510

Vane on channel 8:
#200P Wind Vane 41m
Height: 41.4 m
Serial #: SN:1313

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 50%

Percent of Total Wind Energy
Percent of Total Time

Generated 15. august 2008
Total 10-minute intervals: 4320 Intervals used in calculations: 4320 Percent data used: 100
NRG Systems SDR Version 5.08
Wind Rose Ch 5, 7
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

Vane on channel 7:
NRG IceFree III 47m
Height: 47.2 m
Serial #: SN:30309

Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 50%

% Percent of Total Wind Energy
% Percent of Total Time

Generated 15. august 2008
Total 10-minute intervals: 4320  Intervals used in calculations: 4320  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 9:
NRG #110S Temp C
Height: 0
Serial #: SN:

Average Hourly Values

Average Value: 4.6

Generated 15. August 2008
Total 10-minute intervals: 4320
Intervals used in calculations: 4320
Percent data used: 100
NRG Systems SDR Version 5.08
### Channel Information

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<tbody>
<tr>
<td>Height</td>
<td>48.8 m</td>
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<td>10 m</td>
<td>48.8 m</td>
<td>47.5 m</td>
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<td>47.2 m</td>
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### Sensor Information

1. NRG #40 Anem. 48m
2. NRG #40 Anem. 30 m
3. NRG #40 Anem. 10 m
4. Riso 48 M
5. NRG IceFreeIII 47m
6. No SCM Installed
7. NRG IceFree III 47m
8. #200P Wind Vane 41 m
9. NRG #110S Temp C
10. No SCM Installed
11. No SCM Installed
12. VOLT

### Site Information

- **Project:** Nanortalik kommune
- **Location:** Grønnland
- **Elevation:**

**Generated 15. august 2008**

NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 2:
NRG #40 Anem. 30 m
Height: 30 m
Serial #: SN: 0509

juli 2008
Hourly Averages Graph Ch 2
SITE 1601
Nanortalik

Average Hourly Values

Average Value: 4.4

Days

Values in m/s
Average Hourly Values

Average Value: 3.9

Generated 15. august 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100  NRG Systems SDR Version 5.08
Average Hourly Values

Average Value: 4.4

Days
Values in m/s

juli 2008
Hourly Averages Graph Ch 4
SITE 1601
Nanortalik

Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 4:
Riso 48 M
Height: 48.8 m
Serial #: SN:2623

Generated 15. august 2008
Total 10-minute intervals: 4464 Intervals used in calculations: 4464 Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:

Sensor on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642

juli 2008
Hourly Averages Graph Ch 5
SITE 1601
Nanortalik

Average Hourly Values

Values in m/s

Days

Average Value: 5.0

Generated 15. august 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08
Site Information:
Project: Nanortalik kommune
Location: Grønnland
Elevation:
Anemometer on channel 5:
NRG IceFreeIII 47m
Height: 47.5 m
Serial #: SN:12642
Vane on channel 7:
NRG IceFree III 47m
Height: 47.2 m
Serial #: SN:30309
Outer Numbers are Average TIs for speeds greater than 4.5 m/s
Inner Circle = 0%
Outer Circle = 40%

Percent of Total Wind Energy
Percent of Total Time
Average Hourly Values

Average Value: 7.0

Generated 15. august 2008
Total 10-minute intervals: 4464  Intervals used in calculations: 4464  Percent data used: 100
NRG Systems SDR Version 5.08