## WeatherPhilippines improves AWS network of 50 priority sites

In 2016, WeatherPhilippines partnered with WxBunka Foundation of Japan to create a weather-preparedness culture that is deeply embedded in the Filipino consciousness. To help WeatherPhilippines improve its services, WxBunka Foundation donated JPY2.5M (PhP1.7M).

This donation facilitated the conversion of 50 Automated Weather Stations (AWS) into solar-powered units that are installed in priority meteorological sites where power outages are frequent. These include the following locations: Eastern Samar, Northern Samar, Leyte, Southern Leyte, La Union, Laguna, Rizal, Misamis Occidental, and Batangas.

With the conversion completed in 2017, the solar-powered AWS units' reliability improved, and helped ensure the accuracy and reliability of localized weather information delivered to the public.

From an average of 60-70% per month, it went up to as much as 95-99% for all of the weather stations that were converted.

City / Municipality	Province	Region	Longitude	Latitude	AWS Brend	Date installed	Before	After
							Frequency of Downtime due to power outage	Frequency of Downtime (Cause By)
lasey	Somer	. Aegion MII	125.067800	11.281400	Luft	May		Availability, went up to 95% with available, solar power
Moreal	Samar	Region Mil	124.928300	11.567800	Luft	May	. 360%-70% Availability/manth	Availability went. up., to 95% , with available, s olar, power
obong	Samar	Region Mil	124.950586	11.762444	Luft	May	60%-70% Availability/month	Availability went, up, to 95%, with available, solar power
lalangiga	. Eas.tem Samar	Region MIL	125.386353		Luft	May	. 50%-70% Availability/manth	Availability , went, up. to 95% , with available, solar, power,
faydolong	Eastern Samar	Region Mil	125.501189	11.500087	Luft		\$694-70%, Availability/month	Availability., went. up. to 99%, with available, solar power
aft	Eastern Samar	Region Mil	125,418658	11.903908	Luft	May	\$0%-70%, Availability/month	Availability, went, up. to 99%, with peollable, solar power
eman(,,,,,	. Eas.tem Samar	Region Mil	125.619336	11.323781	Luft	May	60%-70%, Availability/manth	Availabilitywent. up. to 99% , with available. solar power
Ven	. Northern . Samor		124.284345	12.504467	Luft		60%-70% Availability/manth	Availabilitywent. up. to 95% , with available, solar, power
wiwan	. Eas.tem . Samar		125.722283	11.034203	Luft	May	30N-70N, Availability/roanth	Availability. , went. цр. to 99% , with , peollable, solar, power,
lemedes	. Eastern . Samar	Region .WIL	125.709121	11.097626	Luft	May	60%-70%, Availability/manth	Availabilitywent. up. to 99% .with available .solar power
buyog	Leyte	Region MII	125.013092	10.747200	Luft		£0%-70%, Availability/manth	Availability w.ent. up. to 99% , with available, s olar power
lbuera	Leyete	Region Mit	124.694231	10.916005	Light		\$0%-70%, Availability/roanth	Availability went. up. to 99% , with available .s ofar, power,
oyboy, Clay	Leyte	Region MIL	124.798390	10.676627	Luft		£0%-70%, Availability/manth	Availability. , went. up. to 95% , with available .s alar. power
origara	Leyte	Region Mil	124.688900	11.307400	Luft		50%-70% Availability/month	Availability went. up. to 99% , with available, s alar. power
Vlag	Leyte	Region MIL	125,033821	10.953289	Luft	Ame	50%-70% Availability/month	Availability went, up. to 99% with available, x olar, power
aguillan	.La Union		120,397000	16.533700	Luft	August		Availability. , went. up. to 99% , with available, solar, power,
alamba City	Laguna	Regian, IVA	121,133500	14.197700	Luft	August	. 50%-70% Availability/month	Availability . went. up, to 99% , with available, salar, power
Vangas	Leyte	Region VIII	124.748600	10.379200	Lufft	Aine	:50%-70%, Availability/manth	Availability., went, up, to 92%, with available, solar, power
tac Arthur	Leyte	Region Mit	125.002241	10.846968	Lufft			Availability went. up. to 99% , with , available .s olar, power
орасоп	Leyte	Region Mit	124,740300	10.499700	Lufft	June	60%-70% Availability/manth	Availability went. up. to 95%, with available, solar, power
abel	. Leyte	Region Mil	124.434500	10.926500	Luft	Ame	50%-70%, Availability/month	Availability went. up. to 99% , with , available .s olar, power
anavan	Leyte	Aegian Mil	125.016900	11.111600	Lufft	Ame	60%-70% Availability/month	Availability went. up. to 99% , with .available .solar power
alomaan	Leyte	Region Mil	124,383300	11.050000	Lufft		60%-70% Availability/month	Availability, went up to 99% with available solar power
abanga	Leyte	flegion MII	124.370300	11.307400	Lufft	June	50%-70%, Availability/month.	Availability , went up to 95% , with available , solar power
ala	Leyte	Region MII	124.990585	11.158469	Lufft	Ame	60%-70% Availability/month	Availability, went, up, to 99%, with available, solar power
olos a	Leyte	. Regian MII	125.037910	11.063216	Luft		50%-70% Availability/month	Availability., went. up. to 99%, with available, solar, power
an isildeo	Leyte	. Region Mil	124.350556	11.406111	Lufft		50%-70% Availability/month	Availability , went, up. to 95% , with , available, s olar, power,
ala.	Leyte	Region Mil	125.003174	11.177859	Lufft	June	60%-70%, Availability/month	Availability, went, up, to 95%, with available, solar power
ntipolo. City	Riz al	Region IVA	121,223300	14.641600	Lufft	April	60%-70%, Availability/month	Availability, went up to 95% with available solar power
ataman	Northern Samor	Region Mil	124.638500	12.499000	Light	May	60%-70%. Availability/month	Availability , went, up, to 95% , with available, solar power
atub/a	Northern Samor	Region VIII	125.053142	12.408389	Luft	May	50%-70%. Availability/month	Availability, went up to 95% with available solar power.
amay.	Northern Samor	Region MII	125.302461	12,385599	Luft	May	60%-70%. Availability/month	Availability went. up. to 99% , with available, solar power
gogng	Northern Samor	Region MIL	125.010571	12.570013	Luft	June	60%-70%, Availability/month	Availability went. up. to 99% . with .available .solar power
an Jose	Northern Samor	Region VIII	124.485100	12,527800	Luft	May	60%-70%. Availability/manth.	Availability, went, up, to 99%, with available, solar power
ambulan.	Northern Samor	Region VIII	124,926700	12,562900	Luft	May	60%-70%. Availability/month	Availability, went, up, to 95% with available, solar power
odre Burgos	Southern Levte	Region MII	125.017258	10.030149	Lufft		60%-70%, Availability/month	Availability went up to 99% with available solar power
lago	Southern Leyte	Region VIII	125.162857	10.527667	Luft	Ame	60%-70%. Availability/month	Availability, went, up, to 99% with available, solar power
Voge	Southern Levte	Region MII	125.117859	10.156251	Luft		60%-70%, Availability/month	Availability, went up to 95% with available solar power
lac rohan.	Southern Levte	Region VIII	124.944618	10.071054	Lufft	Aine	60%-70%, Availability/manth	Availability, went up to 99% with available solar power
nungogan.	Southern Levte	Region MII	125.198502	10.394213	Lufft	Ame	60%-70%. Availability/month	Availability, went, up, to 99% with available, solar power
on Ricardo	Southern Leyte	Region Mil	125.276600	9.911400	Lufft	Aine	60%-70%, Availability/month	Availability went up to 99% with available solar power
tal/thog	Southern Leyte	Region Mil	125.003853	10.157987	Lufft	Ame	60%-70%. Availability/month.	Availability, went, up, to 99%, with available, solar power
aint Bernard	Southern Leyte	Region Will	125.137700	10.281100	Lufft	Aine	60%-70%, Availability/month	Availability went up to 95% with available solar power
plores	Eastern Samar	Region Mil.	125.484521	12.035679	Lum	May		Availability, went up to 95% with available solar power
andora	Samar	Region VIII	124.811600	12.013200	Lufft	June	60%-70%, Availability/month	Availability, went up to 95% with available, solar power
alamba City	Laguna	Region IVA	121.089955	14,204878	Lufft	August	50%-70%, Availability/month	Availability, went up to 99% with available solar power
alamba Cry	Misamis Occidental	Region X	123.638300	8.564300	Lufft	August	60%-70% Availability/month	Availability, went up to 99% with available solar power
los aria	Batanoas	Region IV-A	121.205200	13.841000	Lufft	line	50%-70%, Availability/month	Availability went up to 99% with available solar power
omos Onnus	Coutham Louis	Seelen 180	124 980500	10.305290	1.40	h	609C-709C Availability/month	Auglightity went up to 90% with auglights color power

Based on the actual observation after the conversion of the 50 weather stations from commercial power to solar power, the availability of the AWS went up significantly from 60%-70% to 95% to 99%.

Before, commercial power outage was the major cause of downtime and when it was converted to an independent solar power source, the power related cause of downtime was almost eliminated.

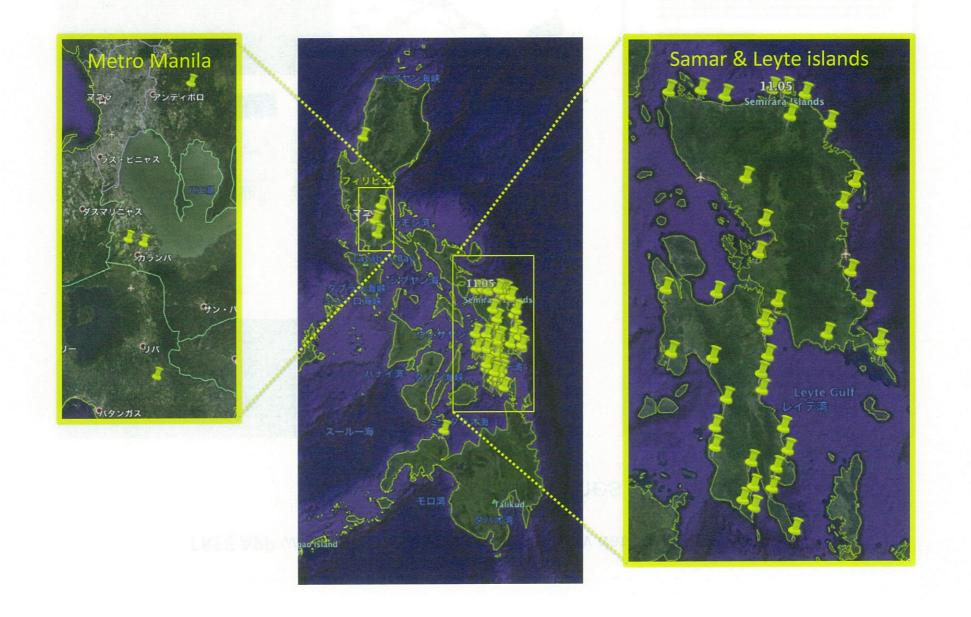
AWS converted to solar power funded by the grant aid of WN WxBunka Foundation



## Sample picture of installation of solar panel to AWS



Map of AWS converted to solar power, funded by the grant aid of WN WxBunka Foundation



## FREE APP where we can see the data, as raw data and alert signal









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