



# THE SYMPHONY OF GREEN

*“Climate change is the defining challenge of our generation. Scientists warn we have less than 10 years to halt the global rise in greenhouse gas emissions if we are to avoid catastrophic consequences. The decisions we make today will affect almost all the work of the United Nations for sustainable development, social progress, human rights, peace and stability”.*

**Ban Ki-Moon**

## WHAT

The United Nations emitted 2 million tonnes of carbon dioxide (CO<sub>2</sub>) equivalent in 2015, according to the organization's annual report of its greenhouse gas emissions.

UN entities and offices around the world need to improve the management of their environmental impacts.

Efforts to reduce greenhouse gas emissions continue across the UN. As part of this policy, UNMIK decided to plan and implement the Solar System Plant in its MHQ in Pristina.

## HOW

We were transferring to the new location in 2015, when Mateo (from Brindizi) came into our office. He did the survey and later on, the business case for PV Solar System was in place. He did it very well.

After detailed research and analysis, Mentor and Astrit revised the business case into final Project for PV Plant configuration.

## WHAT IS GREENING THE BLUE?

Becoming more sustainable is the challenge facing all organizations, businesses and individuals around the world. Greening the Blue is the UN's response, and provides information on how the UN is greening its activities, what's been achieved so far, and how all UN staff can contribute to the effort.



*From the RFP evaluation of the interested companies, the best company was Day Engineering. The company is specialized for electrical installation consulting and implementation.*

*The project implementation started on 23 June 2017.*

## THE PROJECT

Previously we received PV panels and supporting structure from Yingli – China, the largest producer of PV panels in the world, and inverters and controllers from SMA – Germany.

Professor Gani with his team (Day Engineering – the contractor) immediately started with executive design. His co-operation with the UNMIK's Project Manager Astrit is very good.

Very soon the executive design was in place. We started Project implementation, and 1080 PV panels were sent and spread into the roof during one day!

Everything seemed to go smoothly, but...  
There are no buts...  
We did solutions only...

Obstacles, problems or difficulties have to be

transformed into solutions. The work continued... with its easy parts, and sometimes through difficult parts... But the harmony remained. And we reached the end.

The first energy production started within the testing phase on 2<sup>nd</sup> August 2017.

The testing phase and remaining small installations will be finished completely on 12 Aug 2017.

**UNMIK goes Solar, as part of "Greening the Blue".**

Now we continue our green project for Mitrovica RHQ. PV Plant should be prepared and calculated for Mitrovica needs. How much energy is needed? Where to put PV panels?

Questions to be answered!  
Let's get ready!





JOIN US!



Everything is ready. Let's start!



Is the roof going to carry it?



1080 PV panels on the roof (20 t.)



Inverters in place.



Cabling, cabling, cabling...



Afrim taking care



Energy that changes



It must be 50 degrees.



Professor Gani in action



Cables ready for installation



JOIN US!



JOIN US!

Production started!

Sunny Portal

### PV System Overview | UNMIK - MHQ

**PV System Data**

<b>Current power</b> an hour ago <b>149.90 kW</b> <a href="#">Energy Balance »</a>	<b>Communication Monitoring</b> Last contact: just now <a href="#">PV System Monitoring »</a>	<b>Inverter comparison status</b> Last comparison: Friday, August 04, 2017 <a href="#">PV System Monitoring »</a>
<b>Energy</b> <b>1151.24 kWh</b> Today Total: 5568.21 kWh	<b>Reimbursement</b> <b>92.10 EUR</b> Today Total: 445.46 EUR	<b>CO2 avoided</b> <b>806 kg</b> Today Total: 3.9 t
<b>PV system information</b> PV system power: <b>297.00 kWp</b> Commissioning: <b>8/1/2017</b> <a href="#">PV system profile »</a>	<b>Weather for Pristina</b> <b>33 °C</b> Cloudless <a href="#">Tomorrow »</a>	<b>Location</b> Zona Industriale, 10000 Pristina, Serbia <a href="#">Enlarge map »</a>

### Current Status

an hour ago

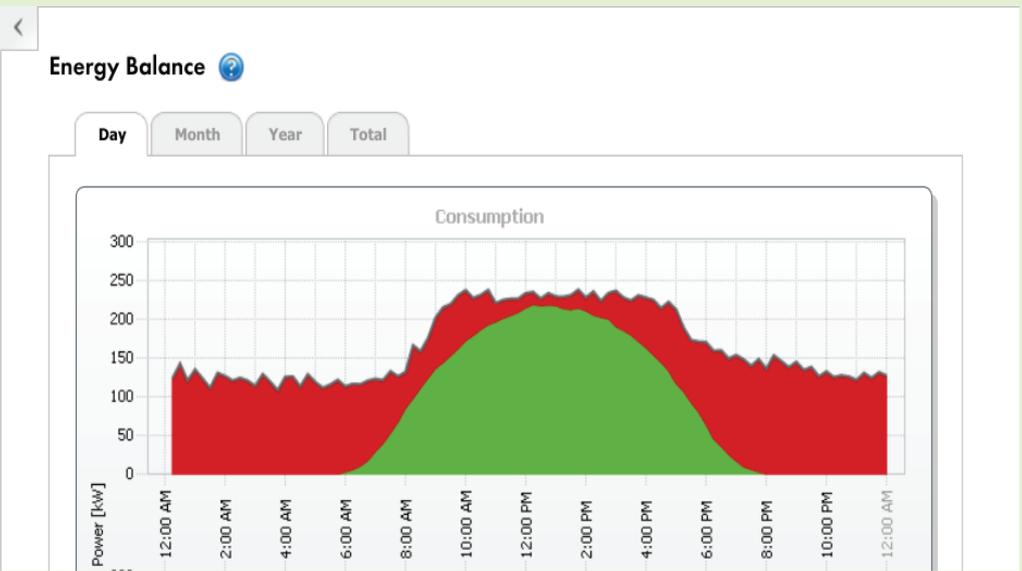
 <b>PV power generation</b> <b>149.90 kW</b>	 <b>Total consumption</b> <b>154.15 kW</b>	 <b>Purchased electricity</b> <b>4.25 kW</b>
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Self-sufficiency quota

97 %

Self-consumption rate

100 %



JOIN US!