

Energy field comparison of N-TOPCon bifacial and PERC bifacial in Yinchuan, Ningxia

modules was conducted in Yinchuan (38.35°N, 106.11°E), Ningxia province, the results of the experimental results have proven that the energy gain of TOPCon bifacial modules is up to 10%~15% higher than that of the PERC

It is obvious that the N-TOPCon bifacial modules generate more energy than P-PERC bifacial modules from Figure 2.

On the one hand, the bifaciality factor of N-TOPCon modules is 10%~15% higher than that of P-PERC modules. Therefore, the

on the same irradiation from rear side.

Another prominent difference is in temperature. The operating temperature of the N-TOPCon modules will lower down benefiting from lower temperature coefficient, and thus the power

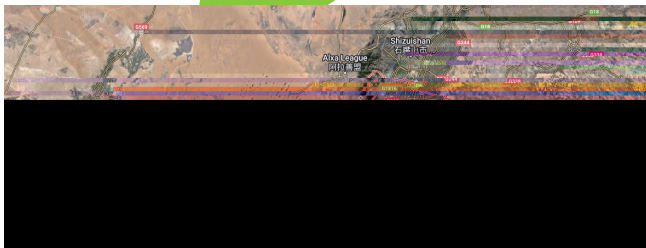


Figure 1. The location information of Yinchuan

10 pieces N-TOPCon and 10 pieces P-PERC bifacial modules are installed in Ningxia (38.35°N, 106.11°E). The information of p-PERC and n-TOPCon bifacial module is shown in Table 1.

current tilt of 40°, 1 meter height above the grass ground. The model type of inverter is Sungrow 20RT-20 and the data is collected at every minute.

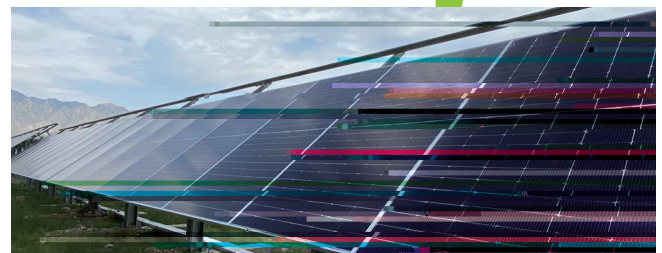


Table 1. System Information

Figure 3. The project picture



Figure 2. The Difference of Produced Energy in N-TOPCon and P-PERC Bifacial Modules