

PVsyst

其他损失设置

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Project: Grid-Connected Project at Beijing

Project's designation

The Project includes mainly the geographic SITE definition, and the associated METEO hourly file

Project's name: **Grid-Connected Project at Beijing** Date: **2016- 1-20**

 New project  Load project

 Delete project

Preferences

 Site and Meteo  Albedo - settings

System Variant (calculation version)

Variant n° **VCO** : New simulation variant  New variant

 Create from

Input parameters

Mandatory

 Orientation

 System

 Detailed losses

☐ Net metering

Optional

 Horizon

 Near Shadings

 Module layout

 Economic eval.

 Miscellaneous tools

Simulation and results

 Simulation

 Results

 Save variant

 Delete variant

 Exit

PV field detailed losses parameter

Thermal parameter | Ohmic Losses | Module quality - LID - Mismatch | **Soiling Loss** | IAM Losses | Unavailability

入射损失

污秽损失 不可利用损失

Yearly soiling loss factor

Yearly loss factor % ☐ Default

☐ Define monthly values 

Losses graph   Cancel  OK

- 遮挡光线
- 影响散热
- 侵蚀表面



灰尘、盐碱渍等



- 空气状况
- 降雨量
- 组件倾角
- 清洗状况

PV field detailed losses parameter

Thermal parameter | Ohmic Losses | Module quality - LID - Mismatch | **Soiling Loss** | IAM Losses | Unavailability

Yearly soiling loss factor

Yearly loss factor % ☐ Default

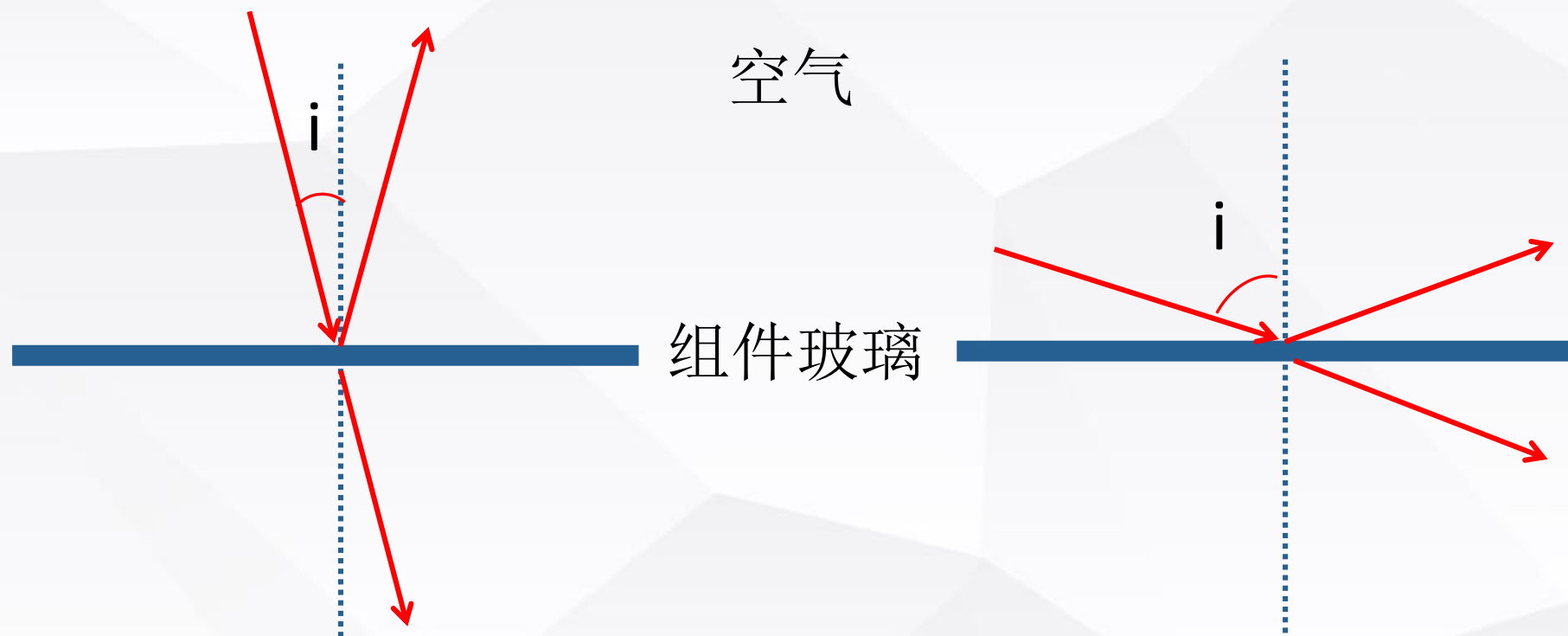
☐ Define monthly values 

Monthly soiling values

Jan.	0.0	%	July	0.0	%
Feb.	0.0	%	Aug.	0.0	%
Mar.	0.0	%	Sep.	0.0	%
Apr.	0.0	%	Oct.	0.0	%
May	0.0	%	Nov.	0.0	%
June	0.0	%	Dec.	0.0	%

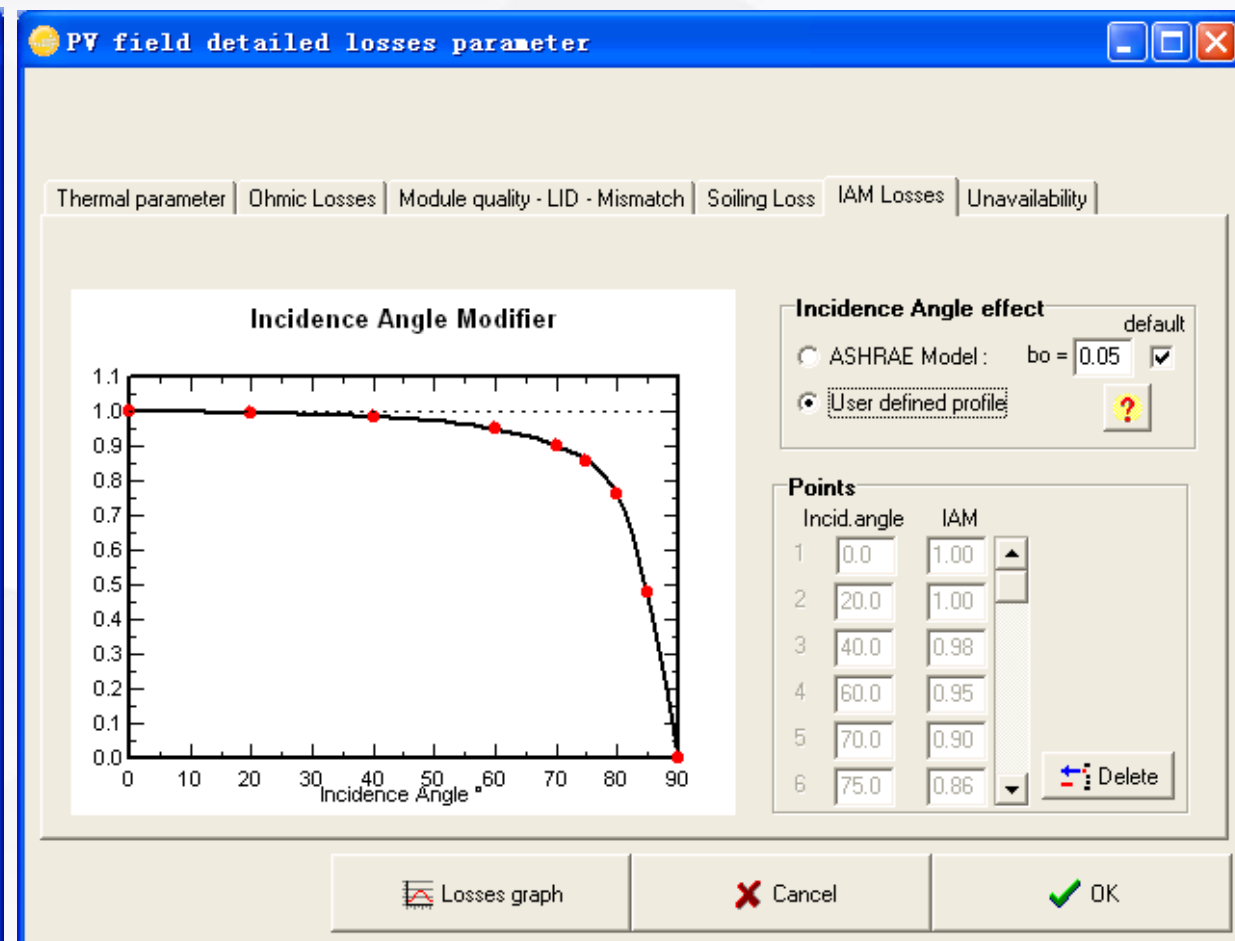
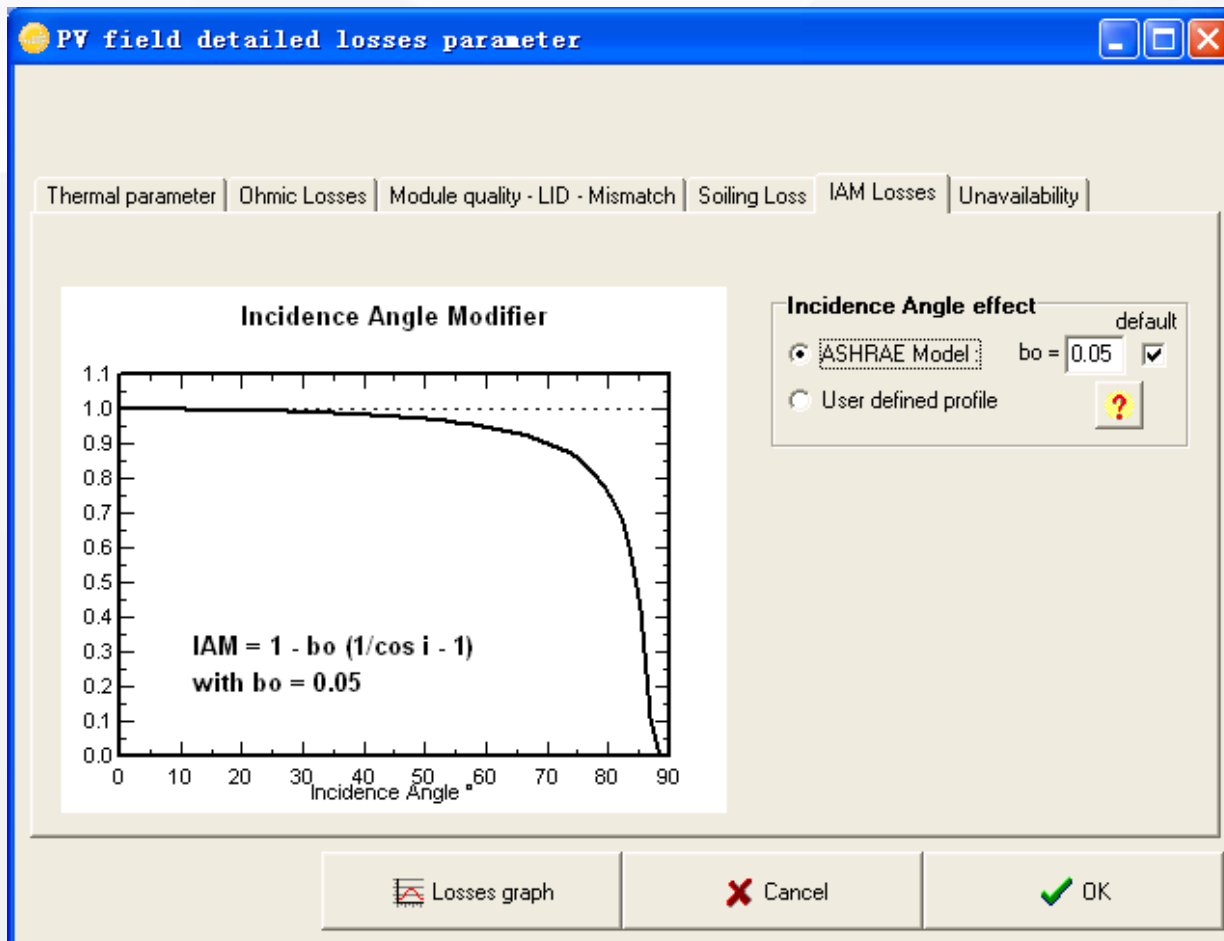
 Set all as year

 Losses graph  Cancel  OK



$$IAM = 1 - bo \cdot (1/\cos i - 1)$$

$$bo=0.05$$



PV field detailed losses parameter

Thermal parameter | Ohmic Losses | Module quality - LID - Mismatch | Soiling Loss | IAM Losses | **Unavailability**

Unavailability of the system

Unavailability time fraction % ☒ default

Unavailability duration days/yr

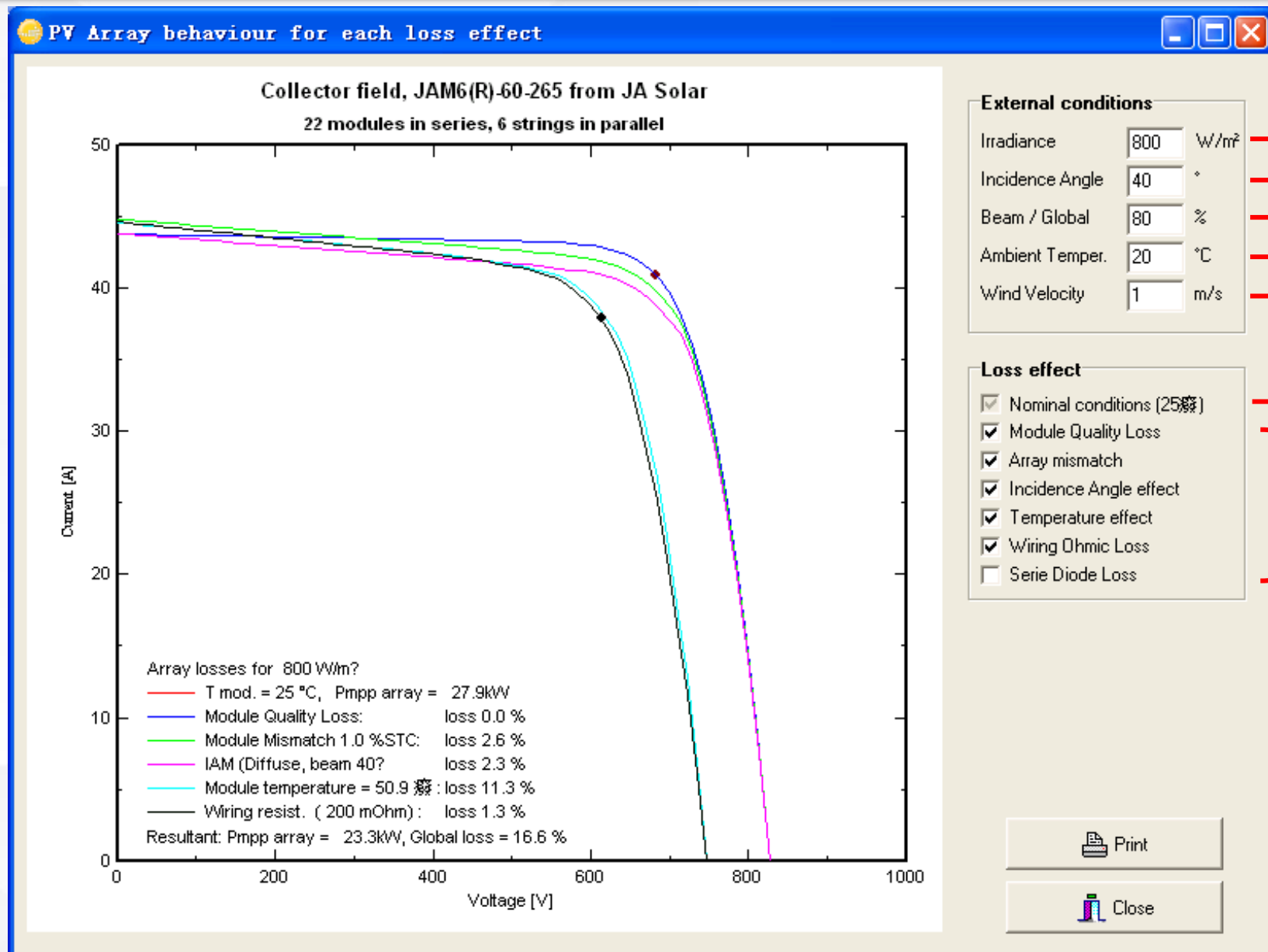
Number of periods

 **Set Random** 

Unavailability periods

Beginning Date / Hour	duration
1990- 4- 6 18:00	58 hour
1990- 4-22 13:00	58 hour
1990-10-21 11:00	58 hour

 **Losses graph**  Cancel  OK



辐照度
入射角
散射辐射比例
环境温度
风速

标准IV曲线

组件功率偏差
失配损失
入射损失
温度损失
线损
二极管损失



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