

Carbon Footprint Calculation

CRE4 method

N°FC01-20210512_001

Applicant:

UAB SOLI TEK CELLS

Mokslininkų g. 6A

LT-08412 Vilnius

Lithuania

Manufacturing site (modules):

UAB SOLI TEK CELLS

Mokslininkų g. 6A

LT-08412 Vilnius

Lithuania

Manufacturing site (cells):

DMEGC CO. LTD.

Dongyang

322118 Zhejiang Province

China

List of products:

Monocrystalline module: **Standard (330-390 Wp in increments of 5W)**

Methodology:

Explained at Annex I

Composition of module:

Technology Nominal Power in W	Module reference
	Standard 330-390W
	Monocrystalline
	Average class 360W
Polysilicon (kg)	0,63
Ingots (kg)	0,63
Wafers (nr)	60
Cells (nr)	60
Modules (m²)	1,85
Glass (kg)	14,81
Backsheet (kg)	0,525
EVA foil (kg)	1,86
PET (kg)	0,65

(quantities refer to one module)

Origin of manufacturing site:

	Coefficients / Manufacturing site / Country of manufacturing
	Monocrystalline Standard 330-390W
Polysilicium	100% Norway (**)
Ingots	100 % Norway (**)
Wafers	100% Norway
Cells	100% China
Modules	100% Lithuania
Glass	100% Germany
Backsheet (kg)	100% Italy
EVA foil (kg)	100% China
PET (kg)	100% China

(**) these components could not be verified during the factory inspection

KRD Global Group has verified the origin and usage of components during a Factory Inspection performed on 22.12.2020 at Soli Tek facilities.

Results:

	Monocrystalline Standard 330-390W
Power tolerance (%) 0/+4,99	Average class 360W
G (kg eq CO2/kWc)	355,16

Calculation details:

		Monocrystalline Standard 330-390W
		Average class 360W
Gi	Polysilicium	54,76
	Lingots	3,27
	Wafers	102,52
	Cellules	70,97
	Modules	46,75
	Glass	51,51
	Backsheet	7,2
	EVA foil	12,2
	PET	5,98
G (kg eq CO2/kWc)		355,16

Information:

Calculations were made on the basis of the default values of the methodology cited in the Annex I except:

- the value of the manufacturing process of "polySi" (Norway)
- the value of the "wafer" component (Norway manufacturing site)
- the value of the "cell" component (China manufacturing site)

Which are a result of estimations made from Life Cycle Assessment (LCA) of these components. The GWPIj (Global Warming Potential) coefficients resulting from LCA are presented in the table below. KRD Global Group Sp. z o.o. recommends to perform a dedicated Life Cycle Assessment on the manufacturers and components mentioned below.

	GWPIj
PolySi (Norway)	2,067
Wafers mono (Norway)	0,537
Cells mono (China)	0,414

As per KRD Global Group knowledge after the Factory Inspection to Soli Tek the model or models of modules to which refers this certificate do not contend any of the harmful components listed in Cradle to Cradle or RoHs standards.

Validity :

Certificate N° FC01-20210512_001 valid from 12/05/2021 to 11/05/2022

Warsaw, 12/05/2021

Technical Director

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