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## **Total**

November 2020

**Independent assurance report on the award of the “Total Ecosolutions” label to the “SunPower solar panels E20, X20, X21, X22, A21, A22” products**

EY & Associés



## Total

November 2020

### Independent assurance report on the award of the "Total Ecosolutions" label to the "SunPower solar panels E20, X20, X21, X22, A21, A22" products

Further to your request, we have performed a review in order to obtain reasonable assurance that the "SunPower solar panels E20, X20, X21, X22, A21, A22" products, a description of which can be found on the web site [www.total.com](http://www.total.com)<sup>1</sup> and in the external datasheet dated October 15<sup>th</sup>, 2020, have obtained the "Total Ecosolutions" label in accordance with the version 6 of the "Total Ecosolutions Guidelines" dated October 24<sup>th</sup>, 2019 (hereafter referred to as the "Guidelines"); the Guidelines, which can be downloaded from the web site [www.total.com](http://www.total.com)<sup>1</sup>, have been established on the basis of the ISO 14020 and ISO 14021 standards and were the subject of a preliminary external review which gave rise to the issue of an independent report on their design, this report also being accessible on [www.total.com](http://www.total.com)<sup>1</sup>.

We conducted our review in accordance with international standard ISAE 3000 (International Standard on Assurance Engagements) defined by IFAC (International Federation of Accountants). It is the responsibility of Total to regularly update the Guidelines, to ensure that they are made available to internal users and third parties, and to apply the Guidelines. It is our responsibility to express, on the basis of our review, a conclusion on the award of the "Total Ecosolutions" label to the "SunPower solar panels E20, X20, X21, X22, A21, A22" products.

#### Nature and scope of our review

To express our conclusion, we performed the following review:

- We have assessed the reliability, accuracy, understandability, neutrality, completeness and relevance of the Guidelines and the constituents of the "Total Ecosolutions" label request file for products and services.
- We have conducted interviews with the persons in charge of preparing the label request file, and analyzed the documentation available (aiming at justifying the methods of evaluation of the product's overall environmental impact and of the comparative performance evaluation with the reference product). We have also reviewed the meeting minutes and documents used during the validation process by the "Total Ecosolutions" Labelling Committee and the Total Ecosolutions Management Committee, in order to identify any risks of deviation in relation to the label award process defined in the Guidelines. However, the scope of our work did not include the verification of data used as sources for the calculation.

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<sup>1</sup> Exact address: [www.ecosolutions.total.com](http://www.ecosolutions.total.com)



To conduct the aforementioned procedures, we called on members of our teams specialized in environment and sustainable development.

### **Information or explanations**

- The Guidelines aim to define the rules for the award of the “Total Ecosolutions” label, the organization and responsibilities, the methods for assessing the level of environmental performance and verifying the compliance with the Guidelines, the internal and external communication procedures as well as the rules for document management, in accordance with the requirements of the ISO 14020 and ISO 14021 standards.
- “SunPower solar panels E20, X20, X21, X22, A21, A22” products correspond to all solar panels from E20, X20, X21, X22, A21 and A22 series commercialized by SunPower. Those panels are sold on a global market for various applications: residential, large roofs, public buildings, solar stations and autonomous systems disconnected from the network. The products under study are characterized by a higher yield, a reduced consumption of purified silicon during the production stage, as well as a higher producibility.
- The environmental and health performance of the “SunPower solar panels E20, X20, X21, X22, A21, A22” products is assessed through comparison, for an equivalent service provided, with the reference product which is a fictitious solar panel. Environmental performances of this panel are the average of the performances of the four main technologies in the market (polycrystalline, monocrystalline, CdTe et CIGS) weighted by their market shares.
- Environmental performance assessment for “SunPower solar panels E20, X20, X21, X22, A21, A22” products is performed through a simplified life cycle assessment that quantifies greenhouse gases reduction.
- The functional unit considered is “producing 1 kWh of energy with the module during its lifetime covered by the product and performance guarantee (equal to 25 years)”.
- The benefit considered significant and validated by the “Total Ecosolutions” Management Committee is a reduction of the greenhouse gases emissions by 59% for the E series modules, 52% for the X series modules and 46% for the A series modules, compared to the reference product.



## Conclusion

In our opinion, the “SunPower solar panels E20, X20, X21, X22, A21, A22” products have been awarded the “Total Ecosolutions” label, in all its significant aspects, in accordance with the Guidelines.

Paris-La Défense, November 16, 2020

EY & Associés  
Sustainability Services

A handwritten signature in blue ink, consisting of a long horizontal line followed by stylized initials 'CS'.

Christophe Schmeitzky