# Tesla solar roof croatia

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Since 2017, Roofit.solar has been offering Europe a solution similar to Tesla solar roofs. The company earned the Solution for the Future 2020 award for its seamless 2-in-1 solar roof that can be found on more than 100 roofs around Europe while its modular steel roof tiles and click-roof panels are still under development but coming soon.

In 2017, the first Roofit.solar roofs were installed in Estonia by Tallinn-based company Roofit.solar Energy O?. The company"s 2-in-1 product--a metal roof with integrated solar panels--looks like traditional steel roofs and is as powerful as conventional solar panels.

Founder and CEO of Roofit.solar, Andri Jagom?gi aimed to produce more affordable solar roofs than what could be found on the market, such as the solar roof by Tesla. Today, there are more than 100 Roofit.solar roofs in Estonia, Germany, Austria, Denmark, Poland, Sweden, Norway, Latvia and Kenya.

Another feature that distinguishes our products from regular solar panels is high mechanical load resistance because of the metal back sheet. The metal back sheet is stronger than the plastic one usually used in standard solar modules. In addition, metal lasts longer and protects the photovoltaic layer from damage. Our metal sheets have Polyurethane coating (Pural) that has superior resistance to corrosion, abrasion, and chemical exposure. We also use monocrystalline cells that are more efficient than thin-film solar cells, used by other similar BIPV metal roof producers.

The difference between our modules and conventional solar panels is that we offer a 2-in-1 product that consists of the solar panel and the roofing material at the same time. In addition, our novel solution makes it possible to harvest solar energy from the roofs and facades, where normal solar panels are not architecturally suitable (i.e. historical buildings).

ArchiExpo e-Magazine: Most, if not all, solar panels need direct sunlight or they aren"t able to obtain the energy. How do your solar roofs work? Are they only fitting for homes in certain climates?

ArchiExpo e-Magazine: What is the lifespan of your solar roofs and what happens to them once they"re no longer viable? Are they able to be recycled and reworked?

ArchiExpo e-Magazine: On your website, you mention the reasons why solar is better than fossil fuels, except solar doesn"t work in all situations. Would it be safe to say that reducing use of fossil fuels is a good idea but that fossil fuels still have their place?

Andri Jagom?gi: Unlike fossil fuels, wind and solar can only generate electricity when the wind is blowing or the sun is shining. This is an engineering challenge since the power grid operates in real-time: Power is

generated and consumed simultaneously, with production fluctuating to keep the system in balance. Therefore, we can say that fossil fuels fill the gaps in renewables today. Biofuels are a possibility since the carbon released when the biofuel is burned is the same carbon taken up as the plant grew.

ArchiExpo e-Magazine: Have you developed the modular steel roof tiles and or the click-roof panels mentioned on your website? You’d originally planned on having the clickable roof panels ready for the market this year (2021).

Andri Jagom?gi: Roofit.solar product development has been supported by Norway Grants Green ICT program. The implementation period of the project is 15.07.2020-30.09.2022, thus, modular steel roof tiles and click-roof panels are still under development.

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