

Andrej Pecjak

Do not wait for the future – the future is now!



Biography

Andrej was born in Ljubljana in 1957, and since 1982 he has been living in vicinity of Slovenian Julian Alps. Since early childhood he has been interested in technology, especially in mechanical and electrical engineering. As a teenager his hobby was rocket models, and he was awarded the title of Slovenian champion several times. At the age of 16 he made his first prototype motorcycle, which ran on ethanol, and since then he has always been very interested in vehicular propulsion.

He studied mechanical engineering – internal combustion engines- in Ljubljana, and at 21 he received the Presern award for developing an internal combustion engine with isothermal compression in order to improve efficiency. After he married in 1981, he tried to make his first electric vehicle, based on an old German Messerschmidt two- seater, using a DC turret motor from an old US Sherman tank.

In 1984 Andrej and his wife Jasna established a company selling spare parts and developing software for car maintenance. By 1990 they had established a spare part retail shop that was powered only by solar electricity and storage batteries. They tried to make an electric car for the second time in 1997, but the car never drove. In 1998 they sold the company, and Andrej continued to work on car electronics and diagnostics and to develop independent off- grid solutions using solar panels, windmills and storage batteries – at that time lead acid ones.

In 2006 Andrej made his first successful 6-seat electric van, converted from a gasoline Renault Espace that had an electric range of 160 km (100 miles). Since then he has converted several vehicles as prototypes for different companies, among which the best was a conversion of a Mazda RX-8. In 2008 Andrej's family and their cars were acting in the documentary environmental movie "Future planet".

In 2012 he and his wife took over [Institute Metron](#) , which has been, since then, dedicated to developing sustainable mobility and sustainable energy solutions. While working at Institute Metron, he has converted over 50 vehicles to electric propulsion and made several EV prototypes for companies around the World. The aim of Metron institute has become development of dynamically controlled charging stations and portable charging stations that are at the moment the smallest in the World.

Andrej and his team also developed a very innovative solution for the use of a storage battery in an electric vehicle to increase the range, when needed , or for the use of this same battery as additional storage for powering a house or enterprise. Andrej is very active in promoting sustainable mobility, so he attends many EV gatherings and rallies. In 2013 Andrej achieved 1st place at Rallye Monte Carlo des energies nouvelles in the Electric vehicles category ,and also in category of consumption driving, with Metron's converted Dacia. In 2015 Andrej and his wife Jasna set an unofficial World range record of driving on a single charge - [826 km \(516 miles\)](#) from Berlin to Karlsruhe, with an average speed of 72 km/h (45 mph), including driving through 5 different cities. The concept car [Metron 7](#), that Andrej drove for this record, had a far greater range than any other street legal family car in that time. With the same car, Andrej and Jasna took 1st place at biggest EV rally, WAVE 2015, in the “pioneers” category.

As member of the Metron Institute, Andrej is also involved in technical trainings and lectures for students and technicians, to teach them about electric mobility, sustainability, and the practical work of converting cars to electric propulsion.

In october 2015 Andrej was selected a finalist at [World Technology Award](#) for Environment achievements introducing [Sustainable energy cycle](#) . Finals where he became [fellow of World Technology Network](#) took place on 19th-20th of November 2015 at Time and Life building in New York city).

Sustainable energy cycle has been further developed and implemented in practice at several locations in Slovenia and Austria. During the years 2018, 2019 and 2020 Andrej has worked together with leading Slovenian electricity supplier GEN-i on integrating electric vehicles with energy sector using Sustainable energy cycle.

Andrej and Jasna have been devoted mountain climbers, specializing in ice climbing, for more then 30 years. During the years of climbing, Andrej has seen direct and undoubtable effects of global warming all around the World, which has pushed him even more into promoting sustainable life, not just sustainable mobility. Andrej's life slogan is: *Where there's a will there's always a way*

