

# INTRODUCTION PRESENTATION



July 2025



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# The Company

Ecoceptor LLC is a solution-driven technology company inspired by the work of Nikola Tesla and other similar-minded scientists and engineers, with innovative energy efficiency solutions that are:

- 1) Economically feasible providing more energy utility per unit measure of electricity or fuel.
- 2) Ecologically beneficial for our planet to drastically raise the quality of life for people.



## Target Market #1: Improving the Fuel Economy of Vehicles on the Road

Vehicle Type by Fuel	# of Vehicles in USA (2023)	# of Vehicles Globally (2023)
Gasoline	248 million	~1.13 billion
Diesel	4.8 million	~298 million
EV & Hybrid	2.3 million	~40 million
<b>Total</b>	<b>255 million</b>	<b>1.47 billion</b>

\* Approximate numbers from ChatGPT and other online searches.

- While the U.S. and other country governments are pressuring industry to produce more **new** EV and MPG-efficient vehicles,...
- Ecoceptor's innovative technological solutions improve the fuel economy of **all** the above types of vehicles that are **already on the road**.



## Target Market #2: Consumers of Electricity, with Primary Focus on Industrial Consumers

- Electricity demand is surging in the U.S.A. and world-wide because of population growth, AI applications, crypto-mining, clean-tech manufacturing and EVs.
- This demand is putting strain on the U.S. Power Grid and the power grids of many other countries as well.
- Ecoceptor has technology that will produce more work per Kwh of electricity, and alleviate the need for increased electricity consumption.
- Ecoceptor's technologies can be applied industrially, commercially, residentially and for National Defense.



**Market Ready  
Technologies**



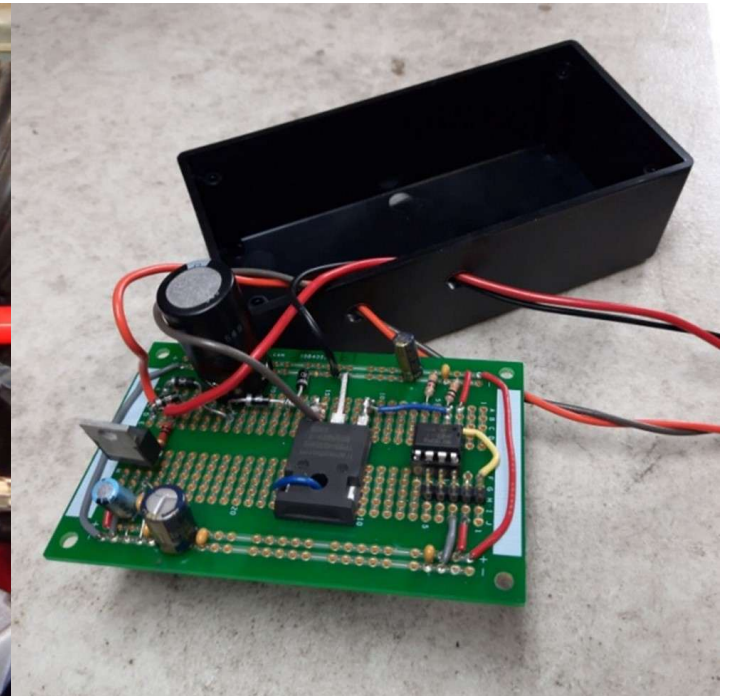
# Exelatron

- The Exelatron works with an internal combustion engine to create more power, higher MPG, a cleaner engine with extended life, and decreased emissions.
- The Exelatron is an electromagnetic reactor that ionizes and aligns the molecules in the engine's waste gas stream that are recirculated back into the combustion chamber.
- The ionizing and aligning of the recirculated waste gases causes accelerated combustion in the engine.
- Increased efficiency of the fuel burn also results in cleaner engine that lasts longer and decreased emissions.
- The Exelatron technology is a Trade Secret that is unique and can be patented.





# Exelatron





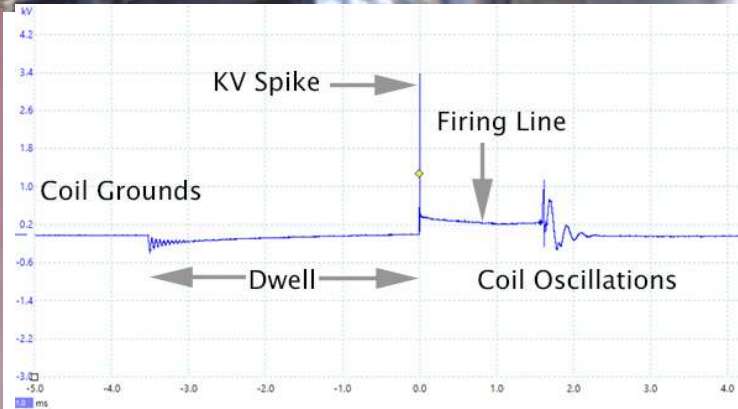
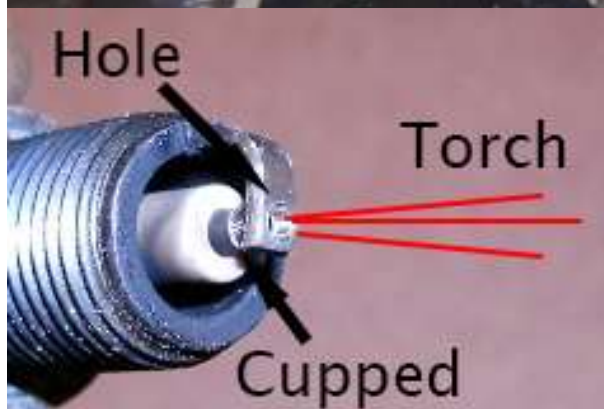


# Super-Spark

- The Super-Spark system increases engine power and efficiency while improving MPG and lowering emissions.
- These advantages are achieved by compressing the spark energy of conventional ignition systems to deliver a high magnitude condensed energy discharge to increase combustion speed.
- The condensed energy discharge is similar to a faster strike or break on the pool table delivering a more instantaneous initiation of combustion.
- The compressed energy discharge is coupled with power stabilization features that are integrated into the ignition power source to drastically accelerate combustion.
- The Super-Spark System is a Trade Secret that is unique and can be patented.



# Super-Spark





# MPGold

- MPPGold is an additive utilizing nano-technology that reduces friction, improves MPG and prolongs the life of all major mechanical systems in gasoline, diesel and electric automobiles.
- It uses heat and pressure to attach a ceramic coating that fills voids and toughens steel while reducing friction.
- This additive treats engines parts (upper & lower), transmissions, differentials, gears and pumps.
- Reduced friction and toughening of steel equates to more miles per gallon and longer lasting vehicles.
- MPPGold is a Trade Secret blend of chemical compounds that have been proven to be effective long-term metal conditioners.



# MPGold





# MPGenie Program

- Ecoceptor's MPGenie Program is all about "Fuel Economy as a Service." The program entails:
- Training automotive technicians with our certified training program to become installers of our system.
- Although several products can be combined into an MPGenie system, the Ecoceptor-certified technician (an MPGenius) can tailor the system to the customer's specific vehicle(s), and it is marketed as a *fuel-economy tune-up service*, as opposed to a simple product installation.
- The system is not plug-and-play, which is why technicians must go through Ecoceptor's training, to understand the workings of the system, before they are permitted to start doing installations on vehicles.



# MPGenie Program

- Ongoing support for certified technicians will be in place for those who need additional assistance.
- It is expected that, conservatively, fuel economy increases of 15% to 25% will be achieved with a 3 to 9 month ROI.
- In the **2010 X-Prize Competition**, test results with Roush Performance verified that we can achieve 40% increase in MPG- since then we have significantly improved.
- <https://www.ecoceptor.com/mpgenie>





## Validation (part 1)

- 2010 X-Prize Competition sponsored by Progressive Insurance.
- Roush Performance testing certified the MPG results
- 2008 Hyundai Sonata
- Improvements:
  - City Traffic MPG: 28% increase, 21 MPG to 26 MPG
  - Highway Drive MPG: 40% increase, 30 MPG to 42 MPG
- Since 2010, our products & services also improved
- <https://www.ecoceptor.com/mpgenie>



## Validation (part 2)

Year	Make	Model	MPG Increase	Tech Level	Date
2008	Hyundai	Sonata	40%	High	Jun 2011
2008	GMC	Denali	15%	Low	Sep 2019
2013	Chrysler	300	15%	Low	May 2014
2010	Ford	Flex	40%	Mid	Aug 2015
2003	Cadillac	Deville	40%	Mid	Mar 2016
2011	Ford	Explorer flex fuel	15%	Low	Nov 2016
1995	Jeep	Grand Cherokee	60%	High	May 2019
2008	Hyundai	Sonata	15%	Low	July 2022
2005	Nissan	Altima	50%	Mid	Nov 2022
2011	Chevy	Express Box Truck	15%	Mid	Nov 2022
2013	Toyota	Prius hybrid plug-in	15%	Low	Nov 2022
2005	VW	Passat turbo diesel	30%	Mid	Nov 2025
2004	Nissan	Titan 4WD posi-tract	35%	High	Jan 2025
2015	Honda	Odyssey	50%	Mid	Jan 2025
1996	John Deere	12.5HP mower	60% reduced emissions verified with 5 gas analyzer		Aug 2023

Additionally, there were approx 6 to 10 more vehicles tuned with an Ecoceptor technology called the Interjector (IXR). These IXRs have a growing demand however, the vendor is currently restructuring their foreign business operations. This IXR technology is now being incorporated into the Exelatron to be a more complete product.



## Next Step

- If you are an interested investor or know someone who is, and this proposal excites you, then Ecoceptor's team would like to meet with you or your interested colleague.
- Contact Matthew Curtin at (805) 588-0532 or [m.curtin@ecoceptor.com](mailto:m.curtin@ecoceptor.com), and we can proceed to arrange a conference call to answer your questions and explore the possibility of a relationship.



# The Team

- The future success of Ecoceptor is entirely dependent on the capability of the Ecoceptor team.
- While we are always open to consider additional talented members, we currently have four highly qualified members to execute our mission into tangible reality:

Matthew Curtin  
Randy Timmerman

C. Michael Holler  
J.M. Kafes

- Here are short professional sketches of each member.



# Matthew Curtin



Matt with his technical advisor. This proves that Matt is able to carry a lot on his shoulders!

- Matt is Ecoceptor's Manager.
- Matthew is a U.S. Air Force Lieutenant Colonel, civil engineer project manager, and combat veteran with 20+ years of service in the Air National Guard. His responsibilities have included, the planning and directing of \$20 billion in construction for the recapitalization of infrastructure on Air Guard installations.
- Matt's in-depth research proves mathematical and chemical principles that explain how the efficiency of a modern internal combustion engine (ICE) can increase dramatically by using simple and effective techniques.
- Matt graduated Manhattan College in 2000 with an environmental engineering degree.
- Rounding out Matthew's managerial skills are his knowledge of supplier relations, experience with contract agreements, as well as tax and accounting knowledge.



## C. Michael Holler



- Mike is Ecoceptor's Research Director.
- Mike is author of *The Ultimate Fuel Economy Book* and *Head Porting for Performance & Economy*, plus dozens of articles on fuel economy and performance.
- He hosted 2 automotive tech hotlines.
- He is a recognized expert on fuel economy in the U.S. Federal Court System.
- Mike has expertise in mechanical drawing, electronics, and engine management systems, and is a self-starter, always teaching himself new things to make his inventions better.
- Mike is also well-connected to many potential clients and vendors.





# Randy Timmerman



- Randy is Ecoceptor's Information Technology specialist. He develops software code for many of Ecoceptor's products and is our webmaster.
- In 2001, he graduated Summa Cum Laude with a B.S. in Information Systems.
- Randy's extensive expertise includes computer system design, diagnostics and repair, networking design and implementation, backup and disaster planning, onsite and remote security setup.
- Randy's Liberty Motors Group team entered a 2008 Hyundai Sonata in the "Progressive Automotive X-Prize 100 MPG competition". It achieved 83 MPG, without relying at all on the two principles used by most of the other teams: reduced vehicle weight and improved vehicle aerodynamics, proving that vehicles which don't look weird can actually get high mileage.



# J. Michael Kafes



- Michael is Ecoceptor's investment and business consultant, making sure Ecoceptor has the adequate funding and organizational structure to succeed.
- Michael has a B.S. and M.B.A. in Finance from Lehigh University.
- He has over 25 years experience working with Wall Street clients, building computerized financial models to help them analyze complex investments.
- He is an entrepreneur and private equity investor in his spare time, with a special interest in Earth-friendly technologies.