



Internet and Electric power, Everywhere !



Ferraris, Experience our future

Ever since the commercialization of electricity, there have been an untapped byproduct in form of electromagnetic field generated by flowing currents in power lines. By harnessing the forgotten and unused electromagnetic energy through electromagnetic energy recycling, Ferraris has opened a new pathway for electric power generation and electric energy recycling technology for the mankind. Ferraris products was developed in a strive to harness the power from a magnetic field produced by power lines and transform it into a reliable and countable power source.

We as human race have reached the pinnacle of modern digital age with constant influx of new and improved electronic goods to improve our everyday life. In order to increase productivity and efficiency, adequate infrastructures such as Smart farms, Smart factories and Smart cities are being constructed. To match its power consumption, solar, wind, and other renewable energy sources are being developed to meet the ever-growing electric energy demands. Even with the best efforts, the reality is that there are limitations and struggles for the renewable energy sources to meet the demands of increasing power demands.

Ferraris pondered whether decentralized power generation could be delivered to better meet the ever-increasing power demands of humanity. In order to whether such technology could be developed and be applied, Ferraris ran a case study on pumped-storage hydroelectric power stations. Ferraris extracted the Energy Recycling Reservoir concept to Pumped-storage. There are difference between Ferraris ERR (Energy Recycling Reservoir) System and pumped-storage hydroelectric (and Solar, Wind power) in their tech-methodology and operational aspects. The basic flow of Ferraris ERR System is that it harvests magnetic energy from the incoming power lines of the commercial buildings to be sent to distribution panel which store and sorts the recycled power and transmits it to building's load, which save the costs of the building's utility.

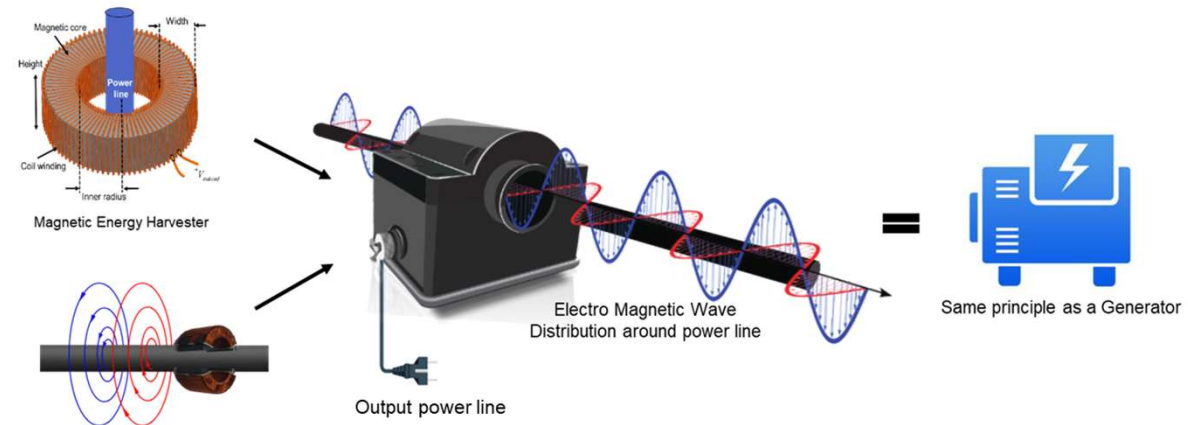
The vision of Ferraris is to mass provide Ferraris ERR System at economical pricing while upgrading electrical energy capacity to make our vision of future come true.

Ferraris Technology and Products

Ferraris Technology

A Ferraris technology which harnesses induced electric energy from the magnetic energy variation produced from the power line regardless of the power line voltage. Ferraris Tolenoïd C® is designed, developed and manufactured mainly for the contactless electrical power generation.(<https://ferrarispower.com/technology>)

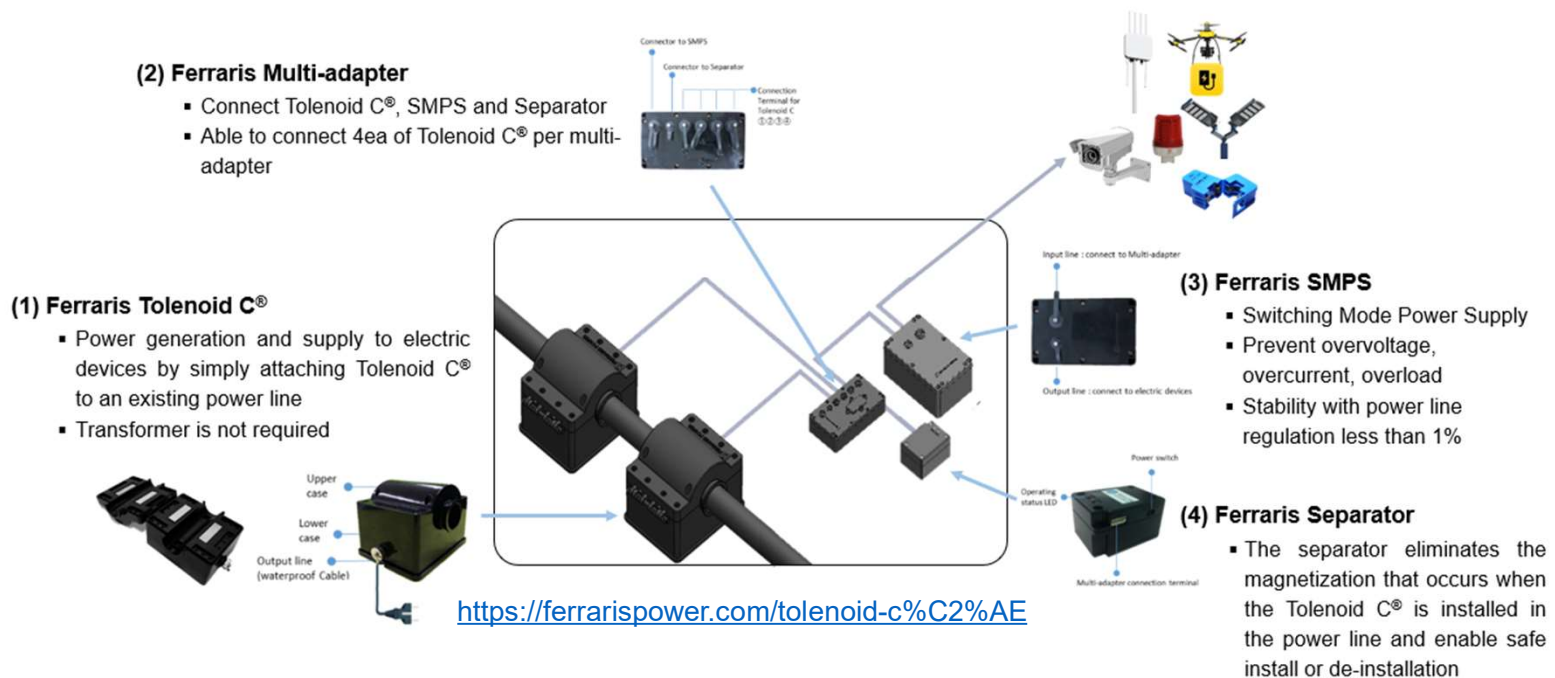
Ferraris's products are not CT (Current Transformers) but PT (Power Transformers) which convert magnetic energy into electric energy when near power lines, regardless of the power line voltage. Our PT is operating not only at linear region, but also at saturation region. Actually, in most situation, our PT is in Saturation region. For a better understanding, please refer to the download paper(<https://ferrarispower.com/downloads>) published by IEEE ACCESS on June 3, 2021 jointly by Ferraris and KAIST.(the Korea Advanced Institute of Science and technology)



Ferraris Tolenoid C[®] products

We would like to provide package solutions by combining Ferraris Tolenoid C[®] (Contactless power supply) and TV White Space (Super Wi-Fi solution, the other company's products) for Everywhere IoT Solutions. This will solve major hurdles, which are powering issue and how to send collected data to host wirelessly, for most of IoT applications.

(<https://ferrarispower.com/applications>)



**What is
Decentralized power generation ?**

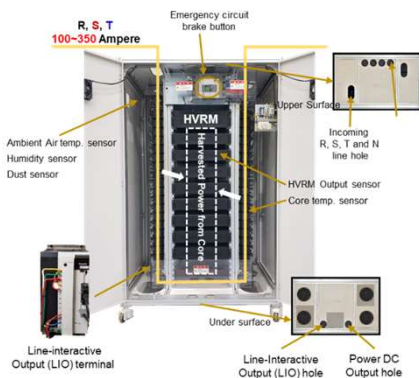
Decentralized power generation is an approach that employs multiple small-scale technologies to produce electricity close to the end users of power. Decentralized power generation technologies often consist of modular generators, and they offer a number of potential benefits. In many cases, decentralized power generators can provide lower-cost electricity and higher power reliability and security with fewer environmental consequences than can traditionally power generators. In contrast to the use of a few large-scale generating stations located far from load centers – the approach used in the traditional electric power paradigm – Decentralized power generation systems employ numerous, but small plants and can provide power onsite with little reliance on the distribution and transmission grid. Decentralized power generation technologies yield power in capacities that range from a fraction of a kilowatt to about 100 megawatts.

Potential power backup system feature in case of main power failure. Consumer advocates who favor decentralized power generation point out that distributed resources can improve the efficiency of providing electric power. They often highlight that transmission of electricity from a power plant to a typical user wastes of the electricity as a consequence of aging transmission equipment. Environmentalists and academics suggest that decentralized power generation technologies can provide ancillary benefits to society. Large, centralized power plants emit significant amounts of carbon monoxide, sulfur oxides, particulate matter, hydrocarbons, and nitrogen oxides. The US Environmental Protection Agency has long noted the correlation between high levels of sulfur oxide emissions and the creation of acid rain.

Ferraris ERR (Energy Recycling Reservoir) system

We proudly introduce world's first and only Ferraris ERR system created by Ferraris. **The Ferraris ERR system is decentralized power generator.** Ferraris providing a revolutionary paradigm of efficient electric power generation by using magnetic energy harvesting based on existing power lines via the Ferraris ERR system, which composed of multiple Tolenoïd C® for high power with state of art Linear power scalability technology.

(<https://ferrarispower.com/err-system>)



**Ferraris Core/HVRM
(High Voltage Regulator Module)
System and LIO power**



Power Control Subsystem

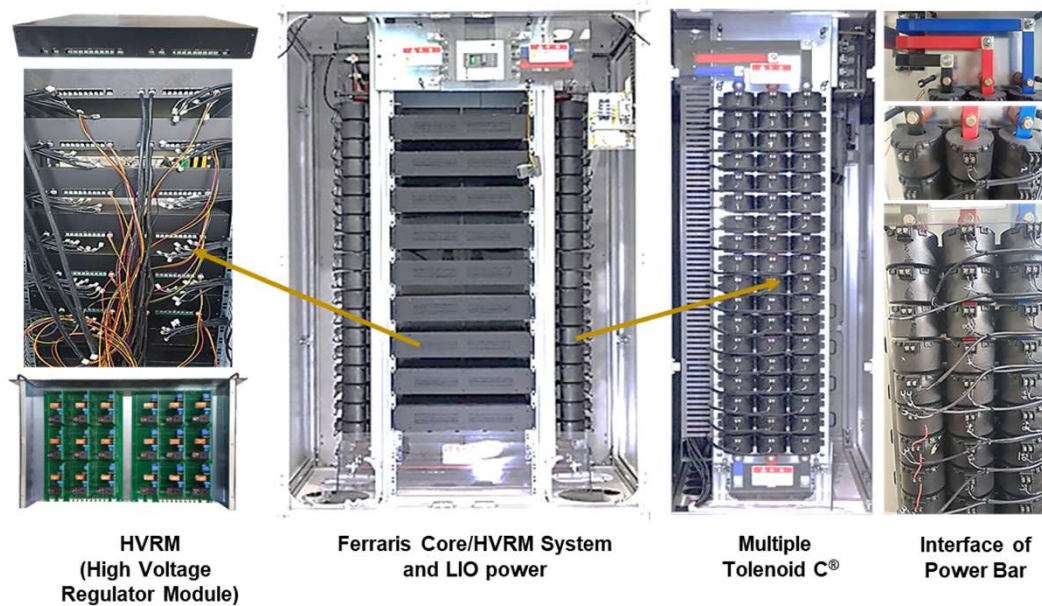


Battery and BMS Subsystem



**Remote Monitoring Power and
Control system for Multi-site**

Ferraris ERR system is designed to be multiple contactless (Linear power scalability technology) attached to incoming power lines to harness induced electrical energy from magnetic energy variation produced from power lines. The harnessed electrical energy then can be stored in the battery to be used when needed or real-time distributed to the load, which means magnetic energy harvesting and using power for load are happened at the same time.
(<https://ferrarispower.com/estimated-electricity>)



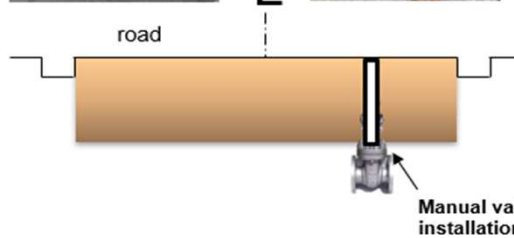
Applications of Ferraris products

<https://ferrarispower.com/applications>

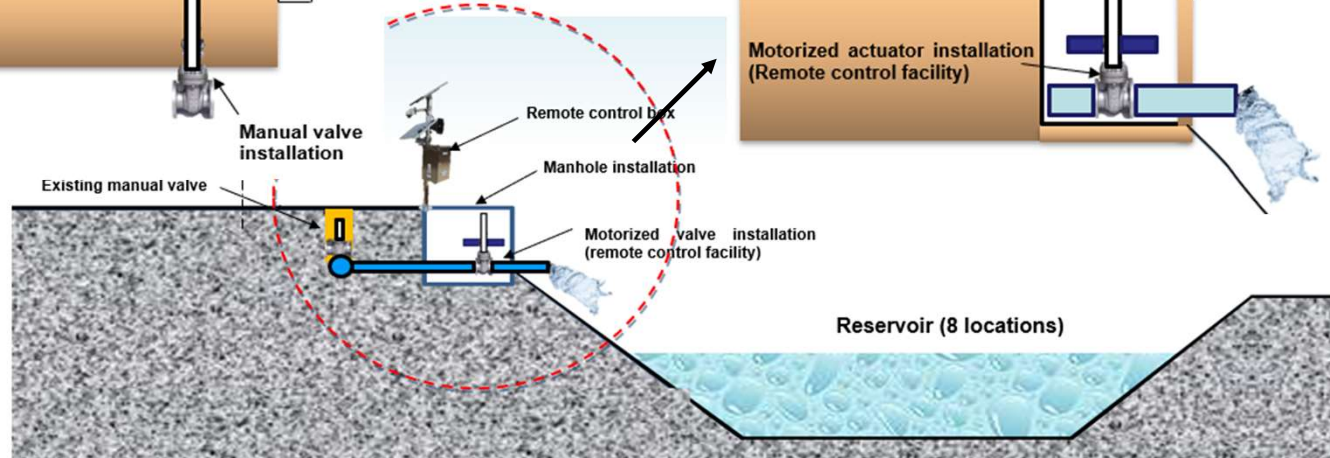
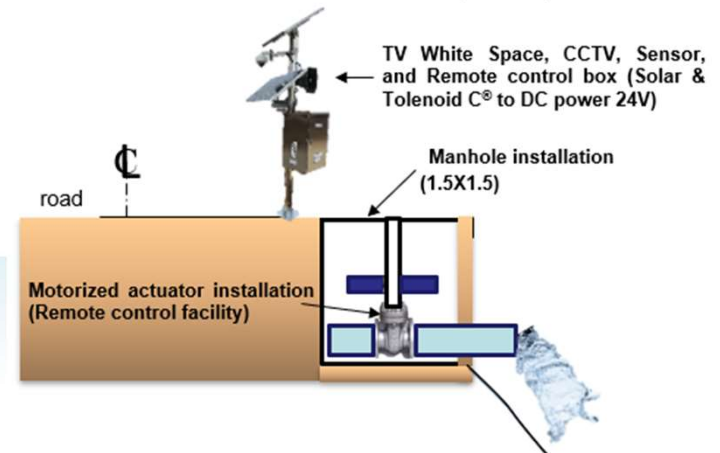
project: Surface water reinforcement development project in the south Korea

Starting with remote control of the water intake gate at the pumping station in local government using 3 pressurized pumps in the pumping station to evenly distribute agricultural water to 8 reservoirs in case of drought, the central control room in the county office quickly controls the water for the reservoir and to developed a scientific water valve remote control system.

Manual water drain valve construction (past)



Electric water drain valve construction (current)





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