



Ensure access to affordable, reliable, sustainable and modern energy for all.

Ambassador of SDG 7:
Pr. Férid Kourda professor at National school of Engineering and head of research laboratory electrical systems LR-11-ES15




First car in Tunisia working with compressed air

It is a challenge met, proving the existence of other modes of transport other than those driven by hydrocarbons or electricity. The idea is not new and co-exists with the first electric cars that appeared around the 1880s, but it was around 1920 that the coup de grace was brought by oil. We have returned to the electric car, the idea of which is more than a century old, when we have returned to such an old technology which has advantages (simplicity, little pollution, ridiculous cost) but its disadvantage is limited autonomy. This is why we have set ourselves the goal of 40km/h for a range of 40km.




The advantages of the car which was realized as part of a graduation project at the National School of Engineers of Tunis, is its impact on the non-polluting environment because necessarily urban, its low impact on gas greenhouse effects, and energy saving. The transport cost per km is reduced by a factor of 5, and its production cost by a factor of 3. Given its simplicity, it is easily copied by more than half of the countries in the world.





République Tunisienne
Ministère de l'Enseignement Supérieur et de la Recherche Scientifique
جامعة تونس المنار
المعهد العالي للدراسات والبحوث العلمية



Ecole Nationale d'Ingénieurs de Tunis

ELECTRICAL ENGINEERING DEPARTMENT

End of Studies Project

Presented by

Rouslen HAMMAMI ATTOUCHI

For obtaining

National Diploma in Electrical Engineering

Design of a Pneumatic Vehicle

Project's Host

AKER Services

Project's defense

Before :

President : Mr. Bechir RABHI, Lecturer at ENIT

Reporter : Mr. Mohamed Mehdi FILALI, Teacher-Researcher at ENIT

Host Supervisor : Mr. Sofiane KOURDA, Engineer and CEO of AKER Services

School Supervisor : Mr. Férid KOURDA, Professor and Director of Laboratoire de Recherche des systèmes Electriques - LSE

Guest : Mr. Jamel BESROUR, Professor in Mechanical Engineering

Academic Year 2019 - 2020

