

COMPETITIVE ADVANTAGES

- **Simple, robust, modular and inexpensive;**
- Suitable for low and medium voltage;
- Relatively **low rates of total harmonic distortion of current and voltage;**
- **High efficiency, increased longevity;**
- Compliance with EMC standards.

APPLICATIONS/MARKETS

- ‘All electric’ embedded systems;
- Small-scale energy conversion systems (wind turbine).

INTELLECTUAL PROPERTY

- Patent FR1255667;
- Collaboration sought: Licenses available for the device industrialization.

LABORATORY

- Laboratoire GREEN

CONTACT

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PRESENTATION

The GREEN laboratory of the University of Lorraine has developed a **rectifier-inverter matrix converter circuit, which fits to average and low voltages.**

It functions with a low frequency decoupling. It does not require a complex command. The **loss and overheating of transistors are reduced, resulting in an extension of their longevity, a good behavior towards electromagnetic compatibility and an interesting yield.**

