



FRATA

www.frata.com.br

In operation since 1964, in São Paulo, Brazil.
Started developing electronic strobes for photography.

Since 2000, FRATA has mainly worked with
obstruction lights for wind energy, transmission
lines, towers and telecommunications.

Engineering team capable of customizing projects
Internationally certified by Siemens Gamesa and
GE, among others.





FRATA

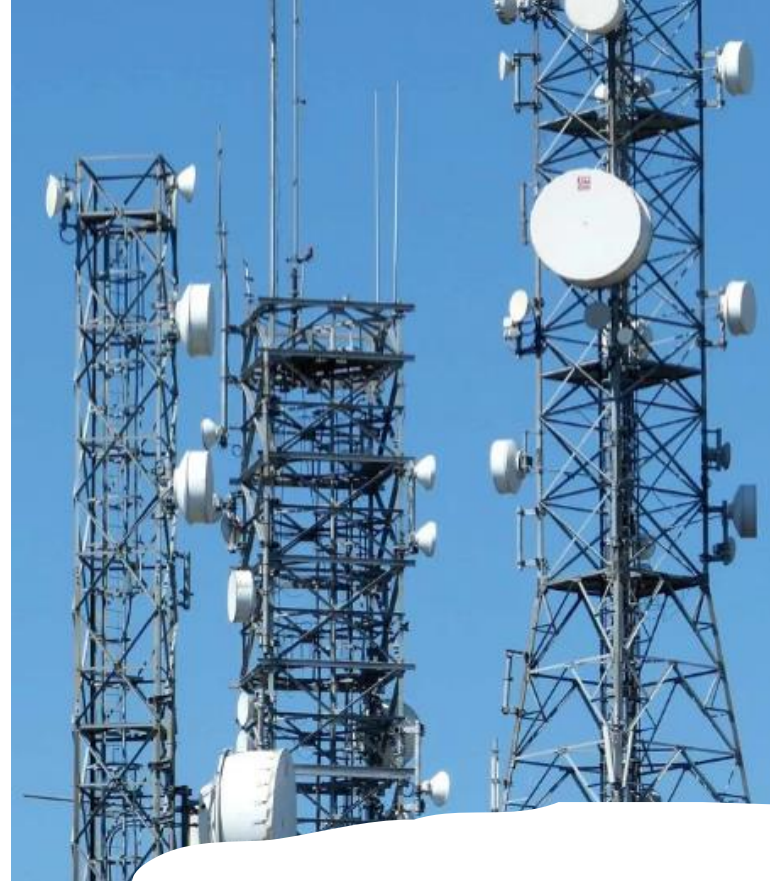


Commercial Opportunities

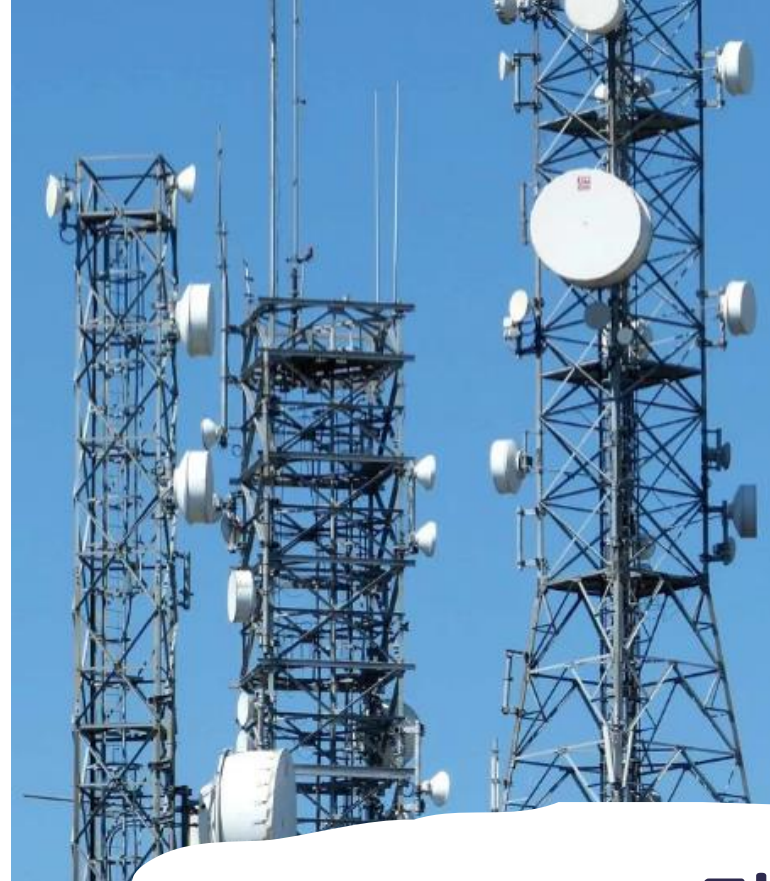


Obstruction Lights

- Rooftop
- Metal Structures
- Telecommunications Towers
- Electrical Transmission Lines



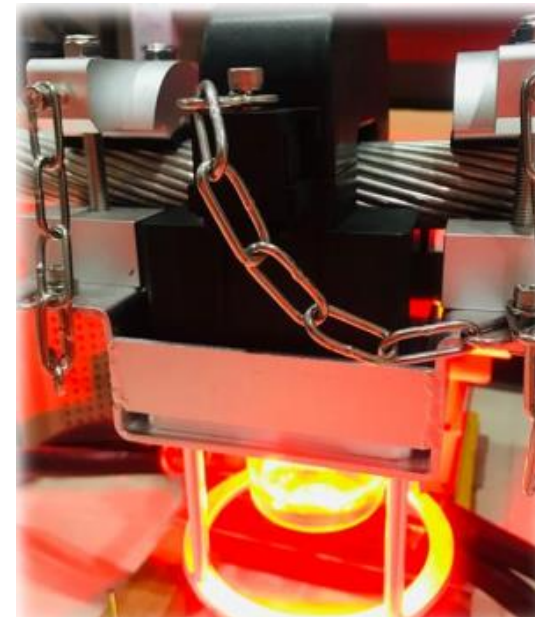
Steady Light for Telecommunications Towers



Flashing Light for Telecommunications Towers



Flashing and Steady Lights for Power Transmission Lines



Steady Lights for Energized Cables up to 800 kV



Synchronized Lights with GPS
system emitting pulses
simultaneously

Obstruction Lights for Wind Turbines

- First Brazilian company to supply obstruction lights to wind farms.
- ISO 9001:2015 certified factory and products qualified by the world's leading wind turbine manufacturers: GE, Siemens Gamesa, Acciona and WEG.
- Exports to Latin American countries.

Compact Medium-Intensity Lighting System



- Compact 1719 medium-intensity lighting system, developed for high efficiency and reliability in aircraft warning lighting.
- Complies with FAA L-864 and COMAER 1424/GC3 standards, with advanced technology and high performance under extreme conditions.
- First Brazilian company to supply obstruction lights to wind farms.
- ISO 9001:2015 certified factory and products qualified by the world's leading wind turbine manufacturers: GE, Siemens Gamesa, Acciona and WEG.
- Exports to Latin American countries.



Low-Intensity Aviation Obstruction Light

- LI low-intensity lighting system, developed for high efficiency and reliability in aviation obstruction lighting
- Complies with FAA L-864 and COMAER 1424/GC3 standards, with advanced technology and high performance under extreme conditions
- First Brazilian company to supply obstruction lights to wind farms
- ISO 9001:2015 certified factory and products qualified by the world's leading wind turbine manufacturers: GE, Siemens Gamesa, Acciona and WEG
- Exports to Latin American countries



Programmable Laser Bird Repellent



Preserving the Ecosystem



Preventing Losses



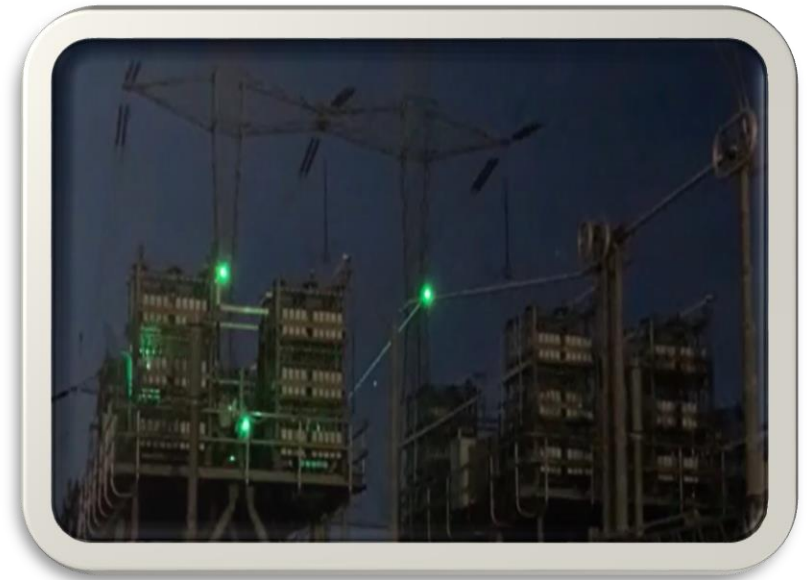
Environmentally Friendly Approach



Applications:

- Solar Farms
- Power Substations
- Transmission Lines
- Telecommunications Towers
- Agribusiness

**Developed to operate at distances
of up to 1.5 km!**







Contacts:



www.frata.com.br



+55 (11) 3619-3556



+55 (11) 95851-0269



+55 (11) 98255-5841 - Michel