

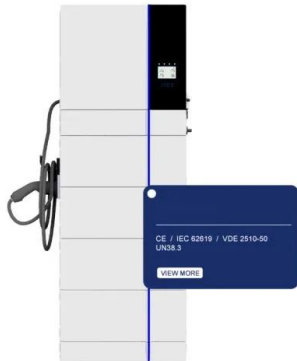
# **Colombia micro cogeneration system**





## Colombia micro cogeneration system

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### Techno-environmental assessment of a micro-cogeneration ...

Techno-environmental assessment of a micro-cogeneration system based on natural gas for residential application . The advantage of using in-situ electricity generation facilities versus ...

### Techno-environmental assessment of a micro-cogeneration system ...

For this, an environmental analysis on the production of CO2 has been applied to two scenarios of electricity generation for a residential building in Medellin city (Colombia). The first one refers to La Sierra thermo-electric plant located in La Sierra, municipality of Puerto Nare, in the more » e, which is the most efficient plant in



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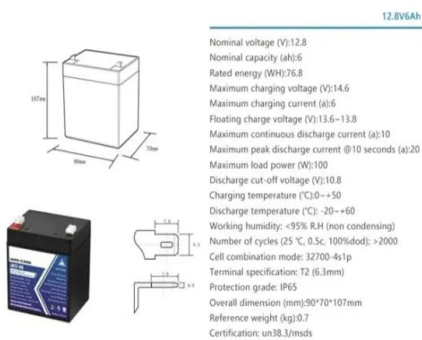
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### TECHNO-ENVIRONMENTAL ASSESSMENT OF A MICRO-COGENERATION SYSTEM ...

Micro-cogeneration units can be summarized as the simultaneous production of useful heat and electric power, in the same process. The principle is comparable to a car, when the electric generator is activated, the engine produces heat that is trapped by the cooling system and implies the heating and/or hot water production system.



### Techno-environmental assessment of a micro-cogeneration system ...

By taking data on the fuel consumption results obtained from TRNSYS ® for the micro-cogeneration unit and publically available information on thermoelectric power plants in Colombia, the specific fuel consumption and efficiency for these systems can be determined,



see Figure 14.



### **(PDF) Techno-environmental assessment of a micro-cogeneration system ...**

Compared to a heat pump heating system with a coefficient of performance (COP) of three, a 0.5 kW cogeneration system with 40% electrical efficiency is shown to lose its environmental benefit



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