Logic energy Tunisia

What percentage of Tunisia's electricity is renewable?
In 2022,only 3%of Tunisia's electricity is generated from renewables,including hydroelectric,solar,and wind energy. While STEG continues to resist private investment in the sector,Parliament's 2015 energy law encourages IPPs in renewable energy technologies.

What are Tunisia's energy projects?
One third of the projects will be for wind farms and two thirds for solar photovoltaics. Tunisia's national grid is connected to those of Algeria and Libya which together helped supply about 12% of Tunisia's power consumption in the first half of 2023.

Who produces electricity in Tunisia?
State power utility company STEG controls 92.1% of the country's installed power production capacity and produces 83.5% of the electricity. The remainder is imported from Algeria and Libya as well as produced by Tunisia's only independent power producer (IPP) Carthage Power Company(CPC),a 471-MW combined-cycle power plant.

What is the energy sector in Tunisia?
The sector also offers opportunities for possible Build-Own-Operate (BOO) or Build-Operate-Transfer (BOT) projects. Much of Tunisia's electricity production comes from gas turbines. Major players in this sector include General Electric (USA), Mitsubishi (Japan), Ansaldo (Italy), and Siemens (Germany).

Does Tunisia have natural gas?
In addition to local gas production, Tunisia receives natural gas as a royalty on the Algerian Transmed gas pipeline crossing Tunisia to Italy. In 2022, only 3% of Tunisia's electricity is generated from renewables, including hydroelectric, solar, and wind energy.

Can Steg meet peak summer electricity demand in Tunisia?
STEG is hard-pressedto meet peak summer electricity demand,let alone keep up with Tunisia's annual 5% growth in power consumption. Approximately 97% of Tunisia's electricity is generated from fossil fuels,mainly natural gas. Through June 2023,nearly 47% of Tunisia's natural gas needs were met through imports (mainly from Algeria).

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Renewable energy offers Tunisia an opportunity to stabilize its economy. By reducing its dependence on imported fossil fuels, Tunisia can protect itself from the energy import costs that strain national finances. For instance, in 2022, Tunisia imported approximately 48% of its energy needs, primarily through natural gas, according to the World ...

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The Government of Tunisia (GoT) has embarked on an ambitious path to increase its renewable energy production. The GoT plans to reach 35% of renewable energy in the electricity system capacity by 2030, against 3% currently. Renewable energy is then expected to cover 50% of the electricity needs by 2035, and 100% of all electricity needs by 2050.

situated in the north-west of Tunisia, and analyze the load profile based on different types of energy consumption existing devices. Finally, we propose an energy management strategy (EMS) based on fuzzy logic control of the hybrid power system ...

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The energy transition in its core definition --namely, the shift towards energy sources with lower carbon emissions (as defined by the International Renewable Energy Agency, IRENA)--represents a significant challenge for Tunisia amidst social and political changes and increasing energy demand.

This paper proposes an energy management strategy for hybrid power system HPS which is composed of a

photovoltaic generator, wind turbine, fuel cell generator and NaS battery storage device, feeding a type house. This strategy is based on Fuzzy Logic Control technique.

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