

The study focuses on energy demand and energy generation resources in Iran, under three energy portfolio scenarios: (1) a basic scenario is a real energy portfolio for Iran's 2018-power demand, (2) Iran's 2050-energy portfolio with maximum accessible renewable energy capacity, and (3) Iran's 2050-energy portfolio with zero-carbon emission to ...

- o Saves 21,479 lives from air pollution per year in 2050 in Iran;
- o Eliminates 1,485 million tonnes-CO₂e per year in 2050 in Iran;
- o Reduces 2050 all-purpose, end-use energy requirements by 58.4%;
- o Reduces Iran's 2050 annual energy costs 70.5% (from \$443.2 to \$130.6 bil./y);

In other words, economically optimal development of the energy system in Iran will also help the country to meet the intended contributions to the Paris Climate Agreement. Then, there are synergies between energy supply at the minimum cost and contributions to the global GHG mitigation efforts.

In order to assess and investigate the potential of the study areas in this section, we will model the problem under three scenarios: simultaneous energy generation by solar and battery storage, wind and battery storage, and energy supply without using batteries.

Iran's current renewable energy capacity is insufficient to address ongoing energy shortages and rising demand. Compounding the issue, Iran is experiencing a natural gas shortage despite possessing the world's second-largest reserves and has had to resort to importing gas from Russia.

Currently, 200 MW of energy is produced by renewable energy sources, primarily by wind and solar energy sources (Bizaer, 2016). Wind and solar energy are the most popular renewable energies in Iran due to its topographical features.

Included are a compiled set of chapters discussing the various international strategies and policies being planned and implemented to reduce energy use, impact carbon emissions and ...

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Iran three energy solutions

Iran is uniquely positioned to harness its abundant natural resources and transition toward a more sustainable energy future. With over 300 sunny days a year, the country is ideally suited for...

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