

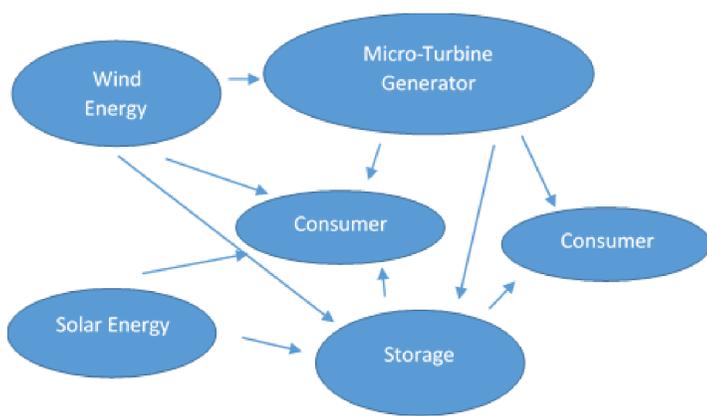
# The Century that Transformed into Demand Side Management from Supply Management

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The electricity adventure, which started with amber in ancient Greece and the ancient battery findings in Rome and went on with the discovery made by Volta about the fact that some certain chemical reactions could produce electricity; and proceeded with Thomas Edison, Joseph Swan, and the electricity giant Nikola Tesla, has eventually come to the phase that mankind produces energy from natural resources such as sun, winds, and waves, and ultimately to the efficient use of energy by storing.



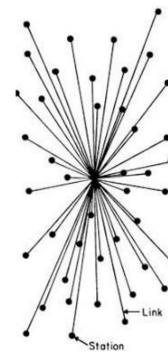
## DECENTRALIZATION OF ENERGY

### Main Advantages:

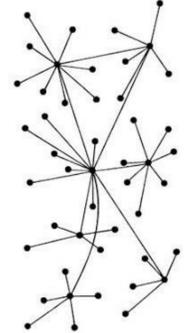
- Less losses
- Less energy dependency
- More efficiency
- Less cost

Another pillar of decentralization in energy is the storage of the produced energy. Energy storage systems are an important solution for more efficient use of energy resources.

### Centralized System



### Decentralized System



## CONCLUSION

In this century, when world resources are becoming increasingly scarce and climate change is clearly permeating our lives, human beings are in search of making their energy adventure safer, cheaper and more diverse.

Removing the energy from the central structure, they have focused on producing energy from the natural resources in their hands, reducing the costs by allowing the consumer to move into the producer position as well, and increasing their security in energy by reducing their foreign dependency.

Our century is now entering a process that will meet the energy needs of future generations.

## CONTRIBUTION OF DECENTRALIZATION IN ENERGY TO TARIFF:

Despite its high investment costs, the benefits of these systems are at a point that we cannot ignore. In addition to significantly reducing overall energy costs, they improve input source utilization, reduce transmission and distribution losses, and create a more reliable energy supply with great synergy potential and high operational flexibility.



## Reference Materials

- G. Pepermans and others, "Distributed generation: Definition, benefits and issues", K. U. Leuven Energy Institute, vol : 33, 2005, pp: 787-798
- <https://ilsr.org/challenge-reconciling-centralized-v-decentralized-electricity-system/>

## Keywords

Energy decentralization, tariffs, storage

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