

Energy system integration

Unknown words: reability, reap, withdrawals, bubbleless, sludge.

In this article the authors exposed what is an integrated water and energy system, this concept refers to a network where the water and energy systems are joined bringing this interconnection great benefits for the final consumer -prosumer (who has allowed the electric grid to become versatile and adaptable to the changes in the era of communications)- for example, it will reduce the use of fossil fuels in water systems, it will implement an intelligent system to reduce energy costs and generating unit downturn, the water systems will be distributed (it will give security and resiliency to the system) also it will bring challenges and opportunities for the electric system, as the minimization of water usage for human necessities and for energy generation, which will reduce water demand and will preserve natural resources.

To conclude the authors emphasised some important facts to implement the integrated energy and water network, first it is needed to include new regulation second, economic incentives for end users are needed and third, the implementation of new technologies with lower costs.

This article shows how the world is changing into a network of complex systems and it is important due to the benefits it brings to the end consumer, to the mankind and the nature, as it will reduce the demand of natural resources in the earth.

References

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