Sarajevo load shifting

How effective is load shifting between regions and hours?

A set of signals for effective load shifting between regions and hours is identified. Optimal load-shaping strategy depends on datacenter location and time of year. Additional percent of flexible loads reduces costs by avg. 1.29 ± 0.07 EUR/MWh. Spatial load shifting yields maximum utility for datacenters located 300-400 km apart.

What is the difference between spatial load shifting and temporal load shifting?

The temporal load shifting implies re-scheduling of flexible workloads to another time point, i.e., delaying computing job execution. The spatial load shifting implies migration of flexible compute jobs and associated power loads between different physical datacenter locations.

What is the optimal load-shifting strategy?

The optimal load-shaping strategy depends on specific datacenter locations and time of year. Our results also illustrate the diminishing returns of additional load flexibility,which is important for companies seeking to co-optimize their long-term energy procurement and short-term load-shifting strategies.

When is spatial load shifting possible?

Whenever spatial load shifting is possible, a rational strategy is to get the most out of the clean energy resources with good quality. The heatmaps above illustrate this behavior well: a datacenter located in Denmark--a region with poor solar resources--tends to shift loads away from the mid-spring till mid-autumn.

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The provision of reliable, quality power to the city"s industrial zones is critical to sustain Sarajevo"s growth which impacts the nation"s economy. This was enabled by building a highly robust network, ...

However, HOPS in Croatia plans for generation output during the peak load regime in 2030 to be 4365 MW, or 800 MW higher than the peak load in 2025. Moreover, in Croatia a similar ...

Respondents exhibited significant variability in their load-shifting practices, with over 56% reporting a likelihood of time-shifting energy use even without financial incentives.

We show that decentralized shifting can raise system costs even as flexible consumers lower their own. Because consumers pay marginal-cost-based prices for load while the system ...

CET Energy have installed Siemens" Ruggedcom technology in the Sarajevo 10 substation as part of a large upgrade. To address issues of instability and ensure the reliability of the ...

Bosnia and Herzegovina has not yet transposed the Electricity Integration Package (EIP), deadline due on 31 December 2023, and an infringement procedure for non-transposition has been ...

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Bosnia and Herzegovina does not have its own fossil gas extraction and has a very low level of gas dependence - less than 3 per cent of total energy supply in 2023. In the Federation of BiH entity, it is ...

Sarajevo, February 2024 This Report presents power flows in the transmission system in BiH in 2023. It includes main review of power flows and specific indicators and their comparison with previous year.

Abstract--An increasing focus on the electricity use and carbon emissions associated with computing has lead to pledges by major cloud computing companies to lower their carbon ...

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