

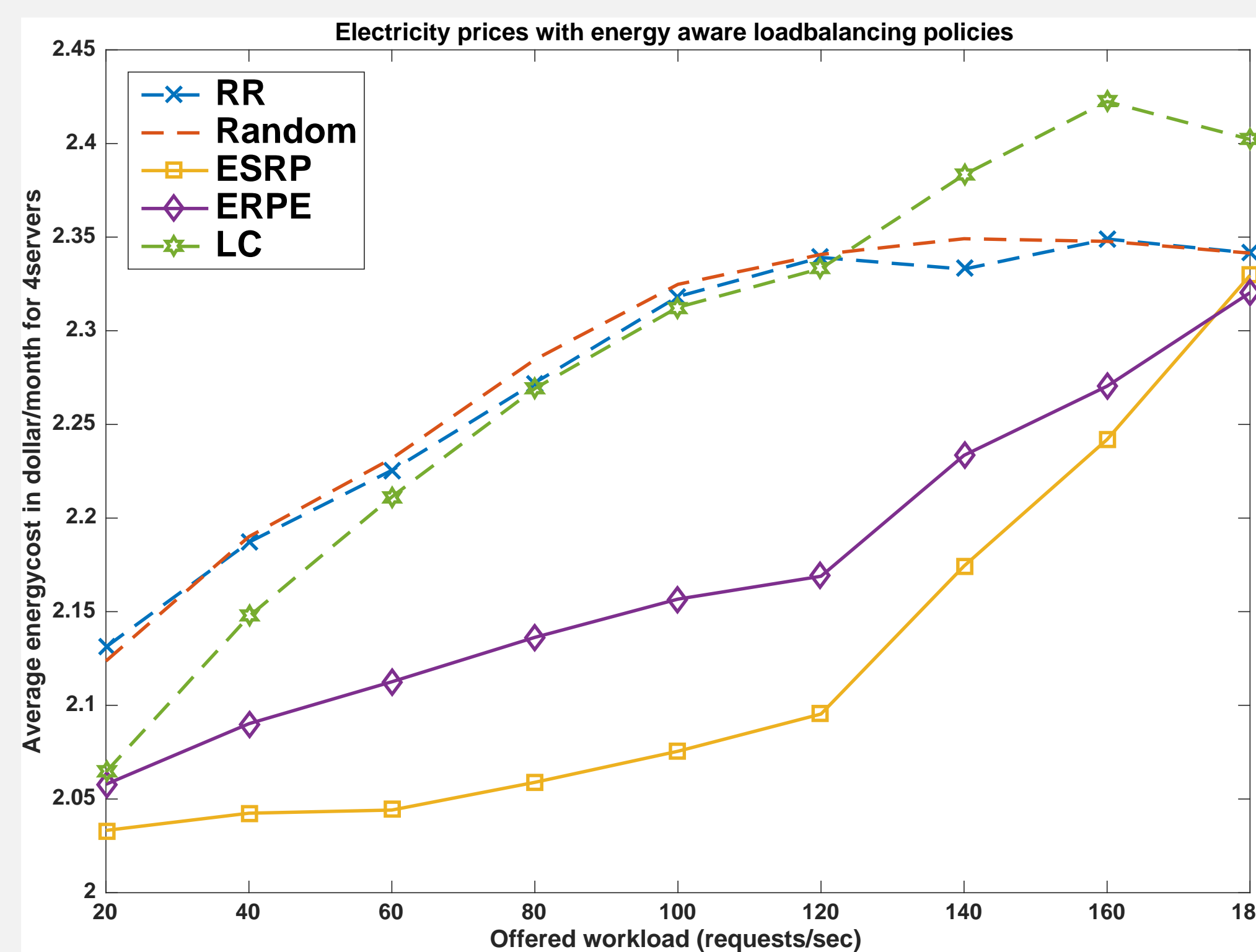
Goal

To reduce electricity bills caused by servers in an Enterprise and to reduce carbon emissions.

How to decide on from where to service the requests

Normally the application services are deployed as web services on the cloud for scalability and fault tolerance. We propose to use an autonomous intelligent global load balancer (IGLB) to distribute the requests across redundant clusters in an energy efficient way without compromising quality of service.

Results



Replicating servers on the Cloud

The experimental results have proved that upto 10% savings in energy cost could be achieved with our energy aware load balancing by routing the requests to servers which consumes optimal energy and optimized service delay.

System Design

