

Anthony Havrilla
MIS 2501
Mart Doyle
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Datacenters and Networking

Our company needs to replace our current tier I data center with a tier III data center to increase availability and lower down time with a more reliable system. For every minute our ERP system is down it costs, our company \$14,800. Down time also causes damage to company reputation, impacting future sales. A tier III data center will increase availability, decrease downtime, and in turn save \$24 million a year.

Upgrading to a tier III data center will increase system availability from 99.67% to 99.98%. A tier III data center will also have several power supplies, while only requiring one, to lower the chances of losing power by having redundant backup supplies. These power supplies will come from different grids and enter the building on different sides to insure that there is always one or more usable power sources. Our current tier I does not have as redundant power supplies and is more susceptible to power outages.

Building a tier III data center will cost approximately \$35 million and take one year to complete. However, it will pay for its self and save \$13 million in the 3 year investment period and save \$24 million a year after that by decreasing down time by 1,629 minutes at \$14,800 a minute.

References

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