**ASSIGNMENT ON POWER FACTOR CORRECTIONS AND SYNCHRONOUS MOTORS**

**TUTORIAL EXERCISE GROUP WORK QUESTIONS**

1. [**How is Power factor correction done by using a synchronous motor?**](https://www.quora.com/Electrical-Engineering-How-is-Power-factor-correction-done-by-using-a-synchronous-motor)
2. [**What is meant by power factor when it come to synchronous motor?**](https://www.quora.com/What-is-meant-by-power-factor-when-it-come-to-synchronous-motor)
3. [**How do synchronous motors improve power factors?**](https://www.quora.com/How-do-synchronous-motors-improve-power-factors)
4. [**Why there is better power factor in synchronous motor as compared to that of an equivalent induction motor?**](https://www.quora.com/Why-there-is-better-power-factor-in-synchronous-motor-as-compared-to-that-of-an-equivalent-induction-motor)
5. [**How can a power factor be controlled in synchronous motors?**](https://www.quora.com/How-can-a-power-factor-be-controlled-in-synchronous-motors)
6. [**What happens when synchronous motor operates on no load?**](https://www.quora.com/What-happens-when-synchronous-motor-operates-on-no-load)
7. [**Why is a synchronous motor not used for developing power factors?**](https://www.quora.com/Why-is-a-synchronous-motor-not-used-for-developing-power-factors)
8. [**Why is the efficiency of the synchronous motor greater than the induction motor?**](https://www.quora.com/Why-is-the-efficiency-of-the-synchronous-motor-greater-than-the-induction-motor)
9. [**Why is a fixed power factor used in a motor?**](https://www.quora.com/Why-is-a-fixed-power-factor-used-in-a-motor)
10. [**If a synchronous motor has a leading power factor, does this motor consume or supply reactive power? Does this motor consume or supply real po...**](https://www.quora.com/If-a-synchronous-motor-has-a-leading-power-factor-does-this-motor-consume-or-supply-reactive-power-Does-this-motor-consume-or-supply-real-power)
11. [**We use multiple MV synchronous AC motors from 350hp to 2000hp. What is a ballpark efficiency of these motors? I'm trying to estimate operation...**](https://www.quora.com/We-use-multiple-MV-synchronous-AC-motors-from-350hp-to-2000hp-What-is-a-ballpark-efficiency-of-these-motors-Im-trying-to-estimate-operation-costs)
12. [**Why is the efficiency of a synchronous motor greater?**](https://www.quora.com/Why-is-the-efficiency-of-a-synchronous-motor-greater)
13. [**Which motor can operate at a high power factor?**](https://www.quora.com/Which-motor-can-operate-at-a-high-power-factor)
14. [**How is the power factor considered in an induction motor?**](https://www.quora.com/unanswered/How-is-the-power-factor-considered-in-an-induction-motor)
15. [**How does a synchronous motor work as a power factor corrector?**](https://www.quora.com/How-does-a-synchronous-motor-work-as-a-power-factor-corrector)

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