











The high efficiency power transmission is made possible via laser power. Its efficiency is more than other wireless power transmission technique.

## VII CONCLUSION

Longer wavelength light outside the retinal hazard region could be a better solution because it is not focused by the eye, and the safe exposure levels are 100 or more times higher than for visible and near-visible wavelengths. These longer-wavelength laser systems may be appropriate for some applications, and that list may grow in the future as their efficiency and cost improve. Such power beaming systems that are “eye-safe” (with respect to scattered light) can be built today, but with a real efficiency of only about 10 percent and at a much higher cost. As these component technologies improve with further development, more-efficient long-wavelength systems will open additional markets for power beaming.

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