

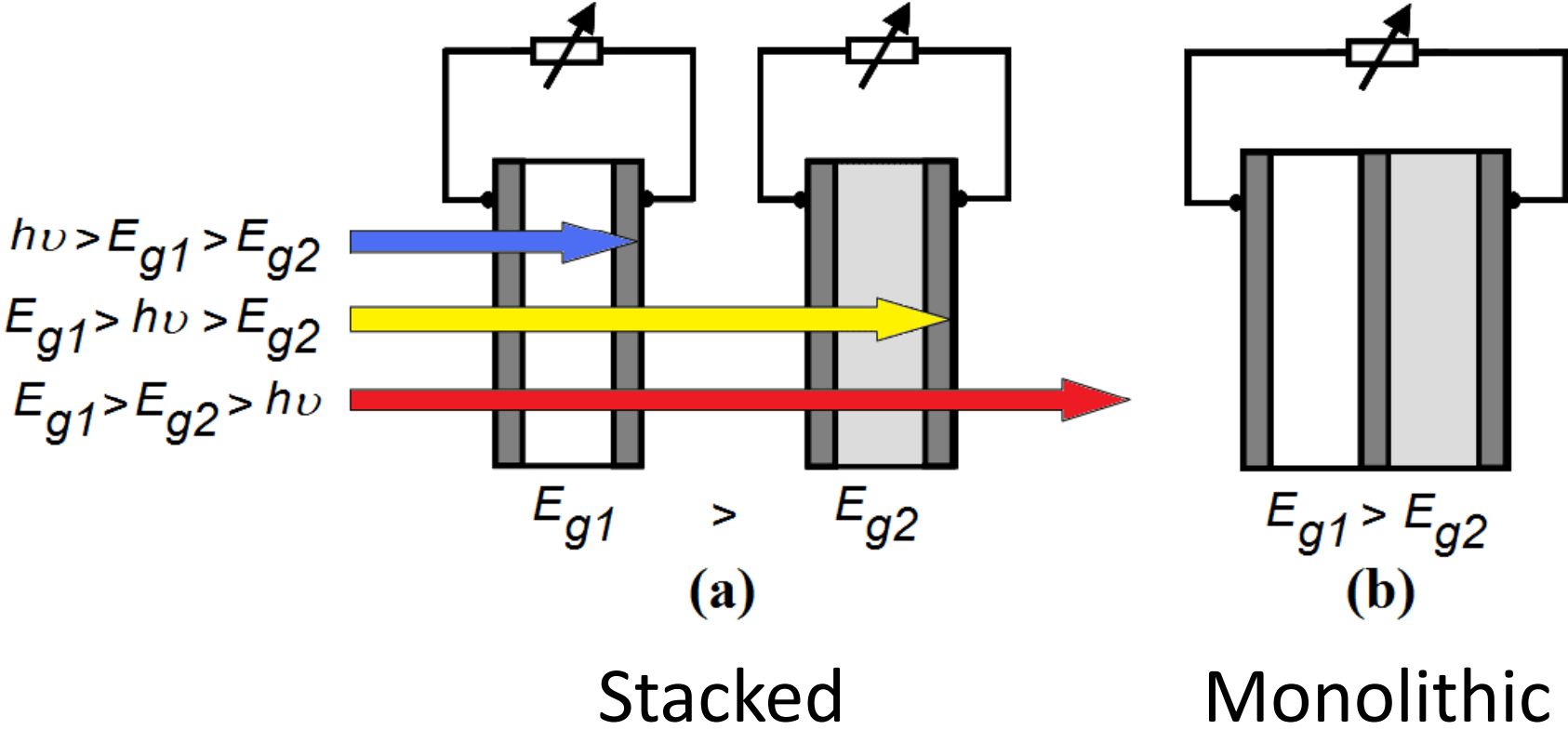
# The Potential of Tandem Photovoltaic Solar Cells for Indoor Applications

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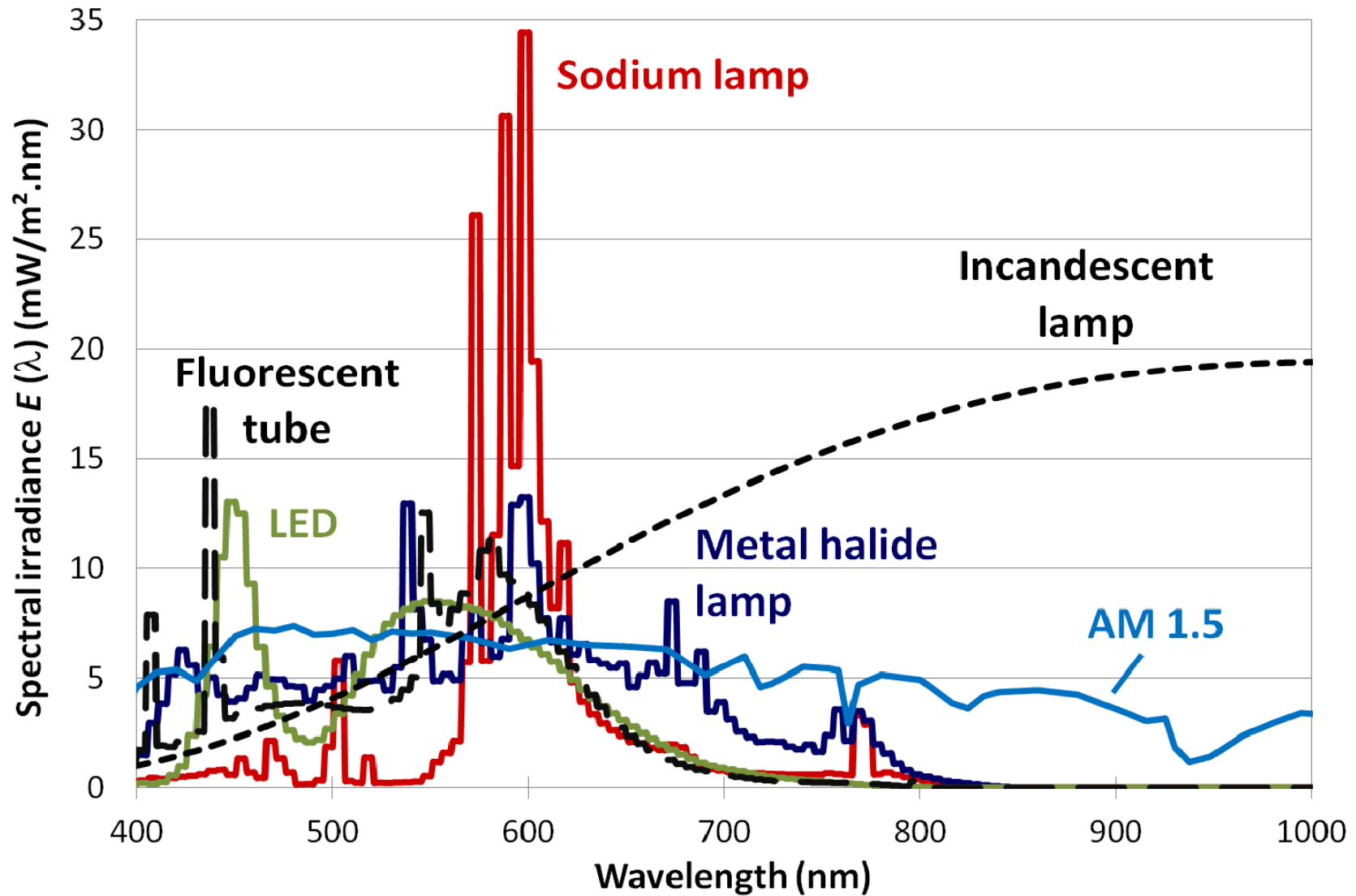
# Low power indoor devices

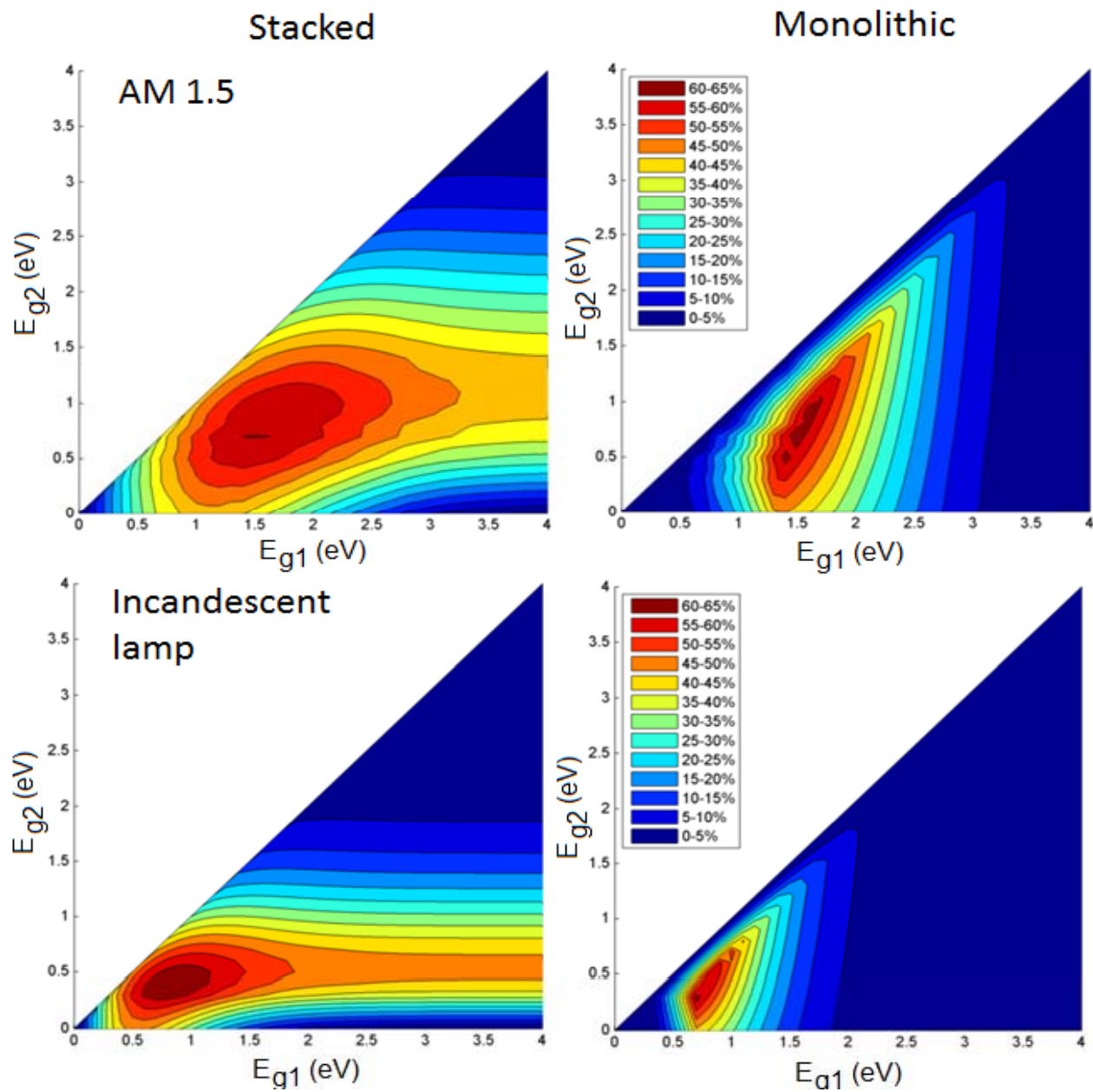
- **Today:** batteries
  - Limited lifetime
  - Cost of replacing battery > cost device
  - Battery waste not environmentally friendly
- **Tomorrow:** energy from renewable resources in the environment (heat, motion, light)
  - ⇒ “infinite” lifetime

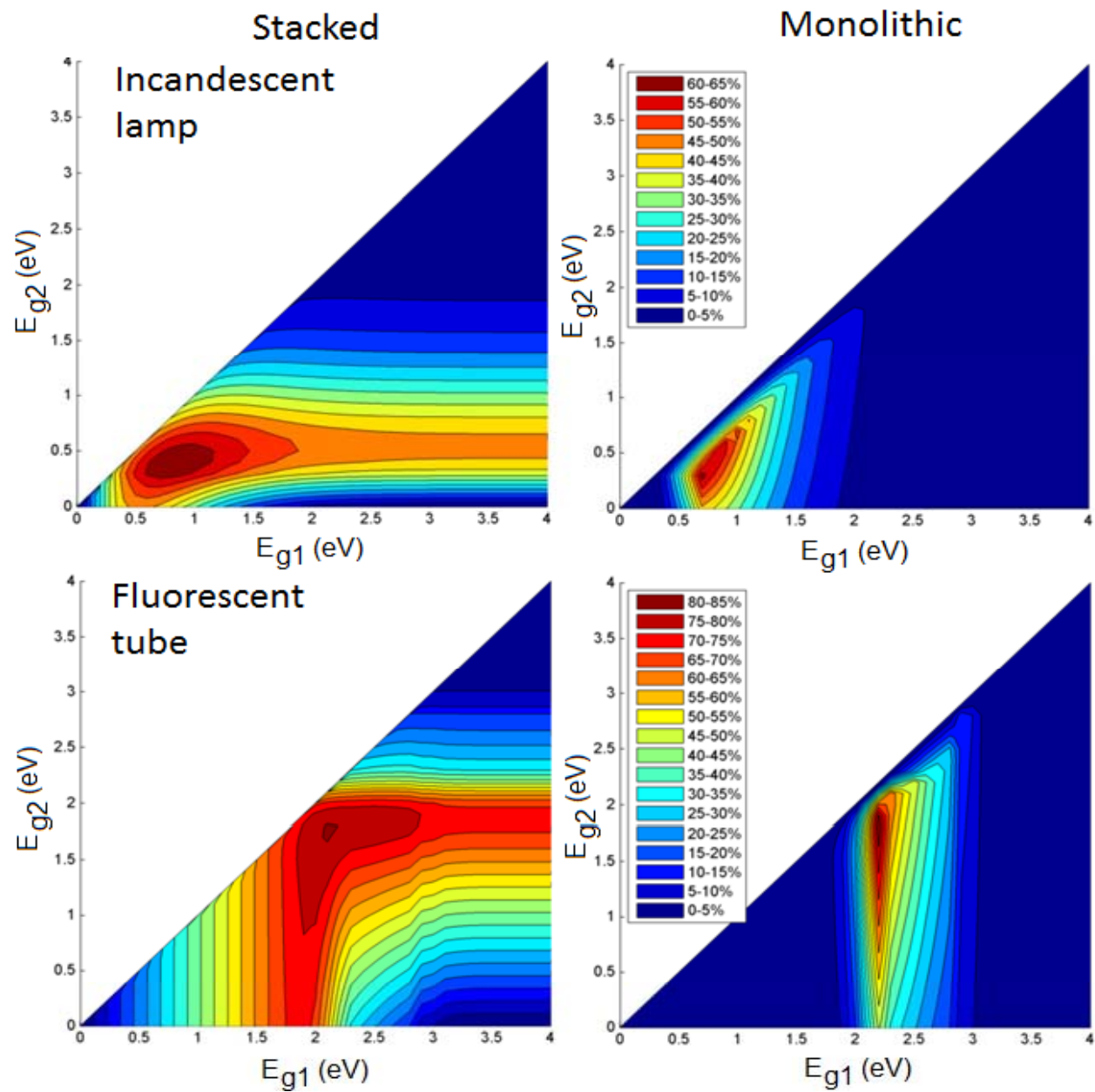
# Tandem solar cell



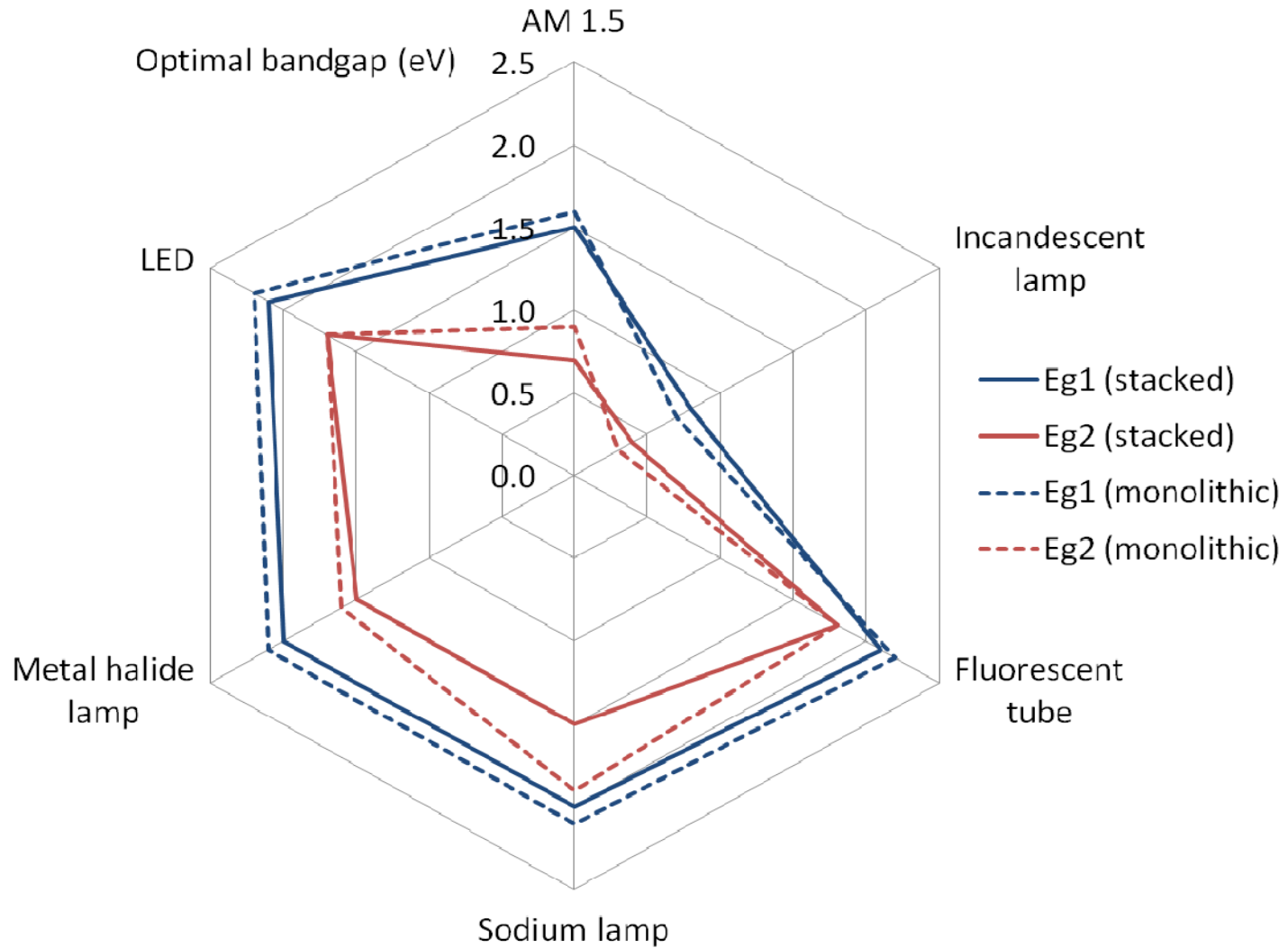
# Indoor spectra (500 lux)



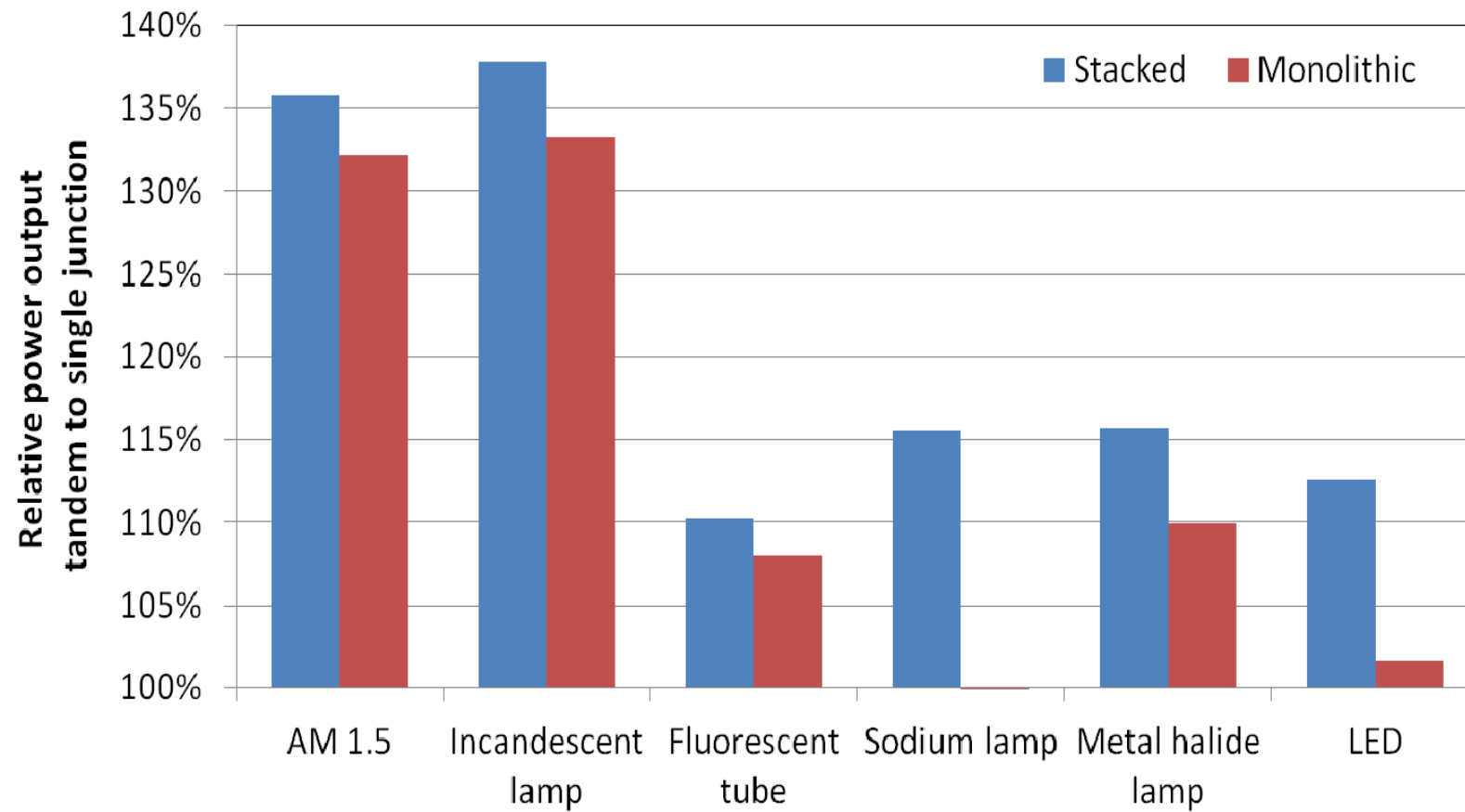




# Optimal bandgaps



# Efficiency gain tandem solar cells





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