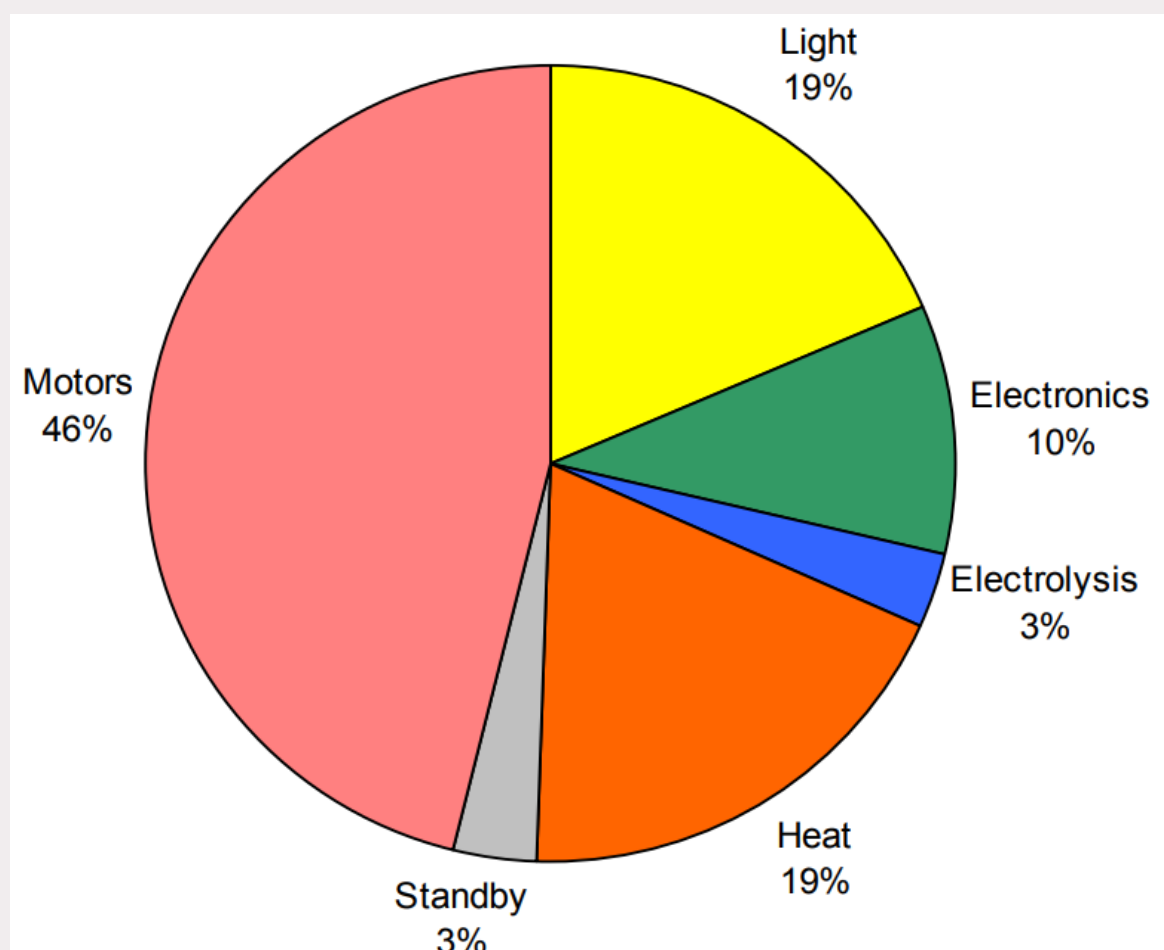


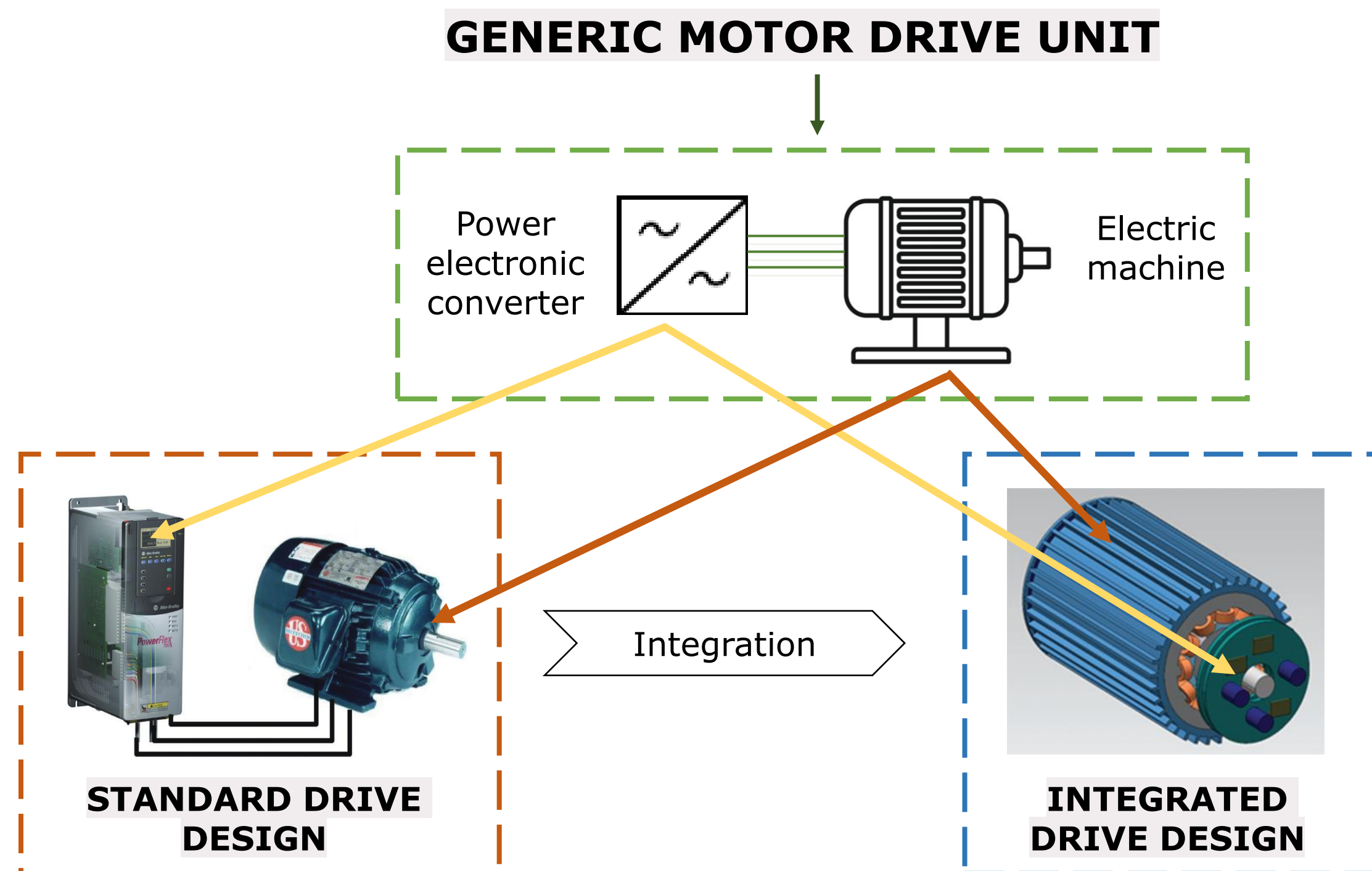
1. GLOBAL ENERGY CONSUMPTION SCENARIO¹



- annual motor emissions: **6000 metric tonnes of CO₂**¹
- user expenses to surge to **\$900 billion** by 2030.

2. TRANSITIONING TO THE INTEGRATED MOTOR DRIVE (IMD)

- potential to achieve a **20-30% gain in efficiency** using efficient motors.¹
- resulting in a **10% reduction** in global electricity demand.¹



KEY ADVANTAGES:

- increased space saving
- enhanced operational efficiency
- streamlined maintenance
- reduced raw material usage

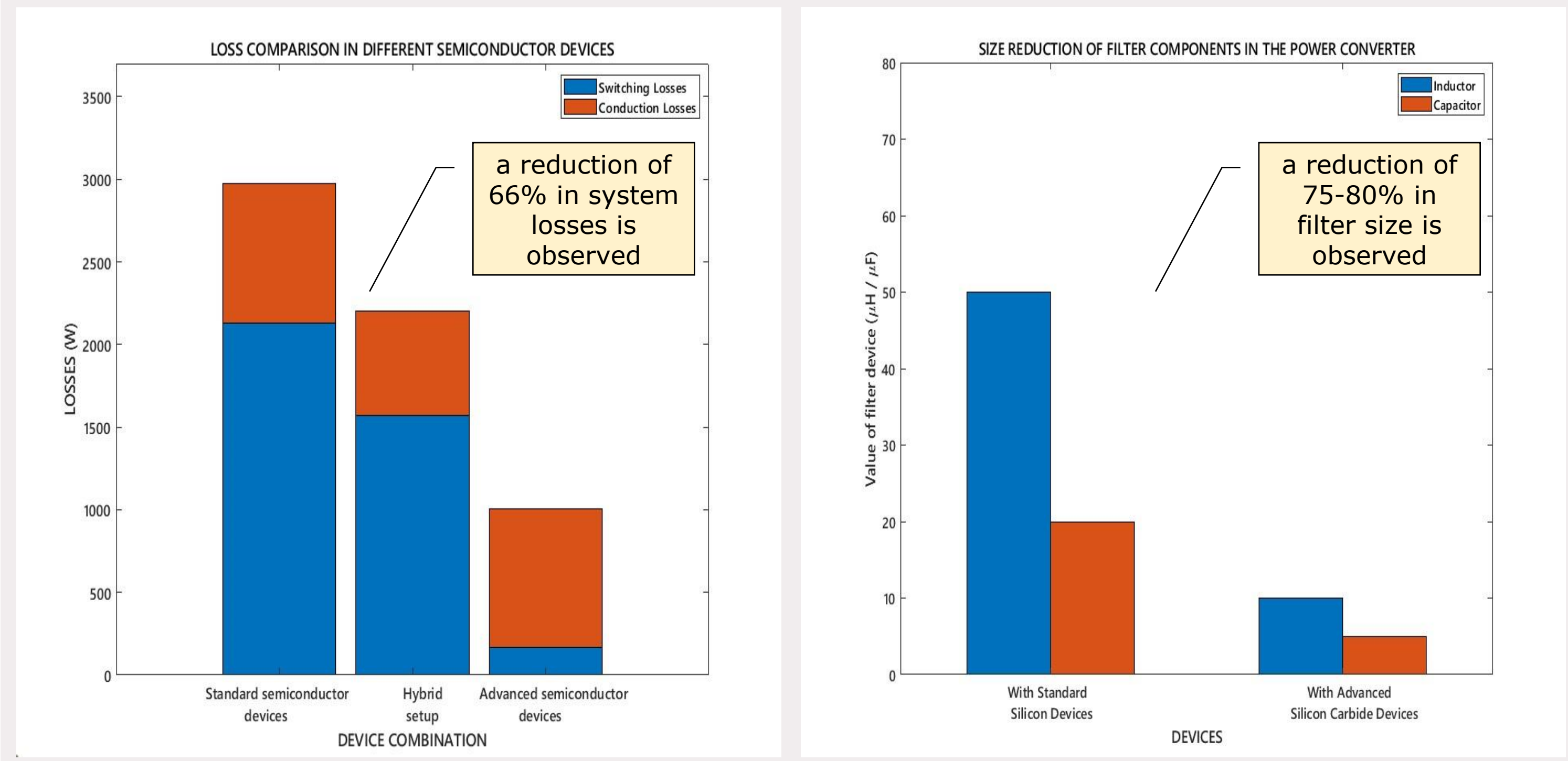
3. PROPOSED IDEA!!!

- boosting system efficiency** by using advanced semiconductors
- enabling **smaller system sizes** through efficient electrical operation.
- resulting in an **efficient** integrated drive

4. OUTCOMES

- Application in manufacturing, **automotive, aerospace** and **renewables** sectors.
- decreased** manufacturing cost.
- reduction** in carbon footprint.
- improvements in **through-life efficiency**.
- easing adoption** of IMD in the UK.
- assist in fulfilment of the UK's **Paris climate commitments**.

5. RESULTS



6. CONCLUSION

