

IE Lab

Powerful Strategic Tool for Business

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Contents



- Insights in practical application of IO
- Case studies showing application of tool
- Learnings
- Challenges

Context

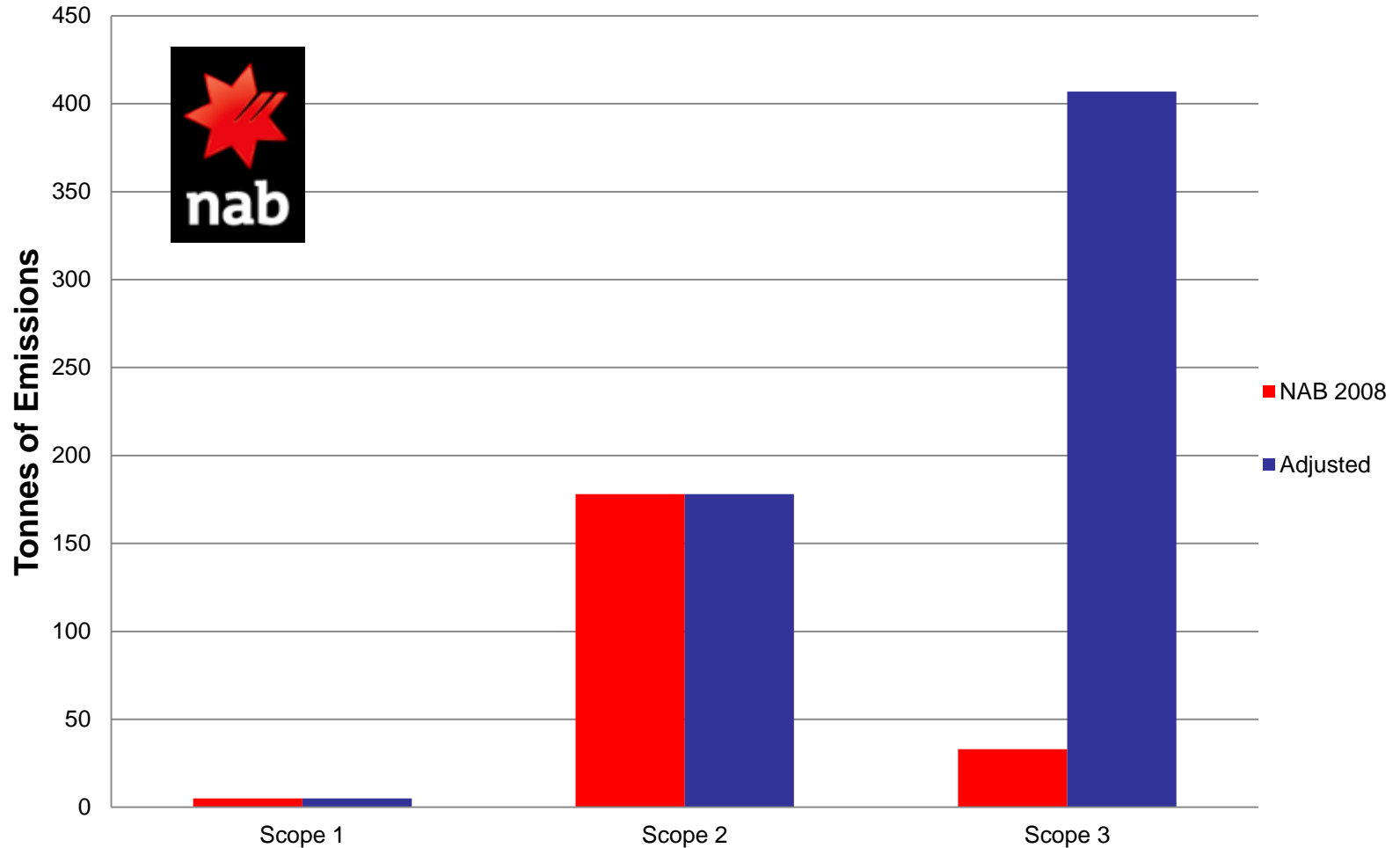
- Experience in applying IO tools to help firms understand environmental impacts
- More than 25 projects completed
- Broad range of industry sectors including products
- Carbon neutral certification - NCOS

Insights

- Cost effective vs. traditional LCA
- Top down approach – not complicated
- Financial data easy to find (P&L)
- Insights that can surprise
- Use hybrid approach when needed

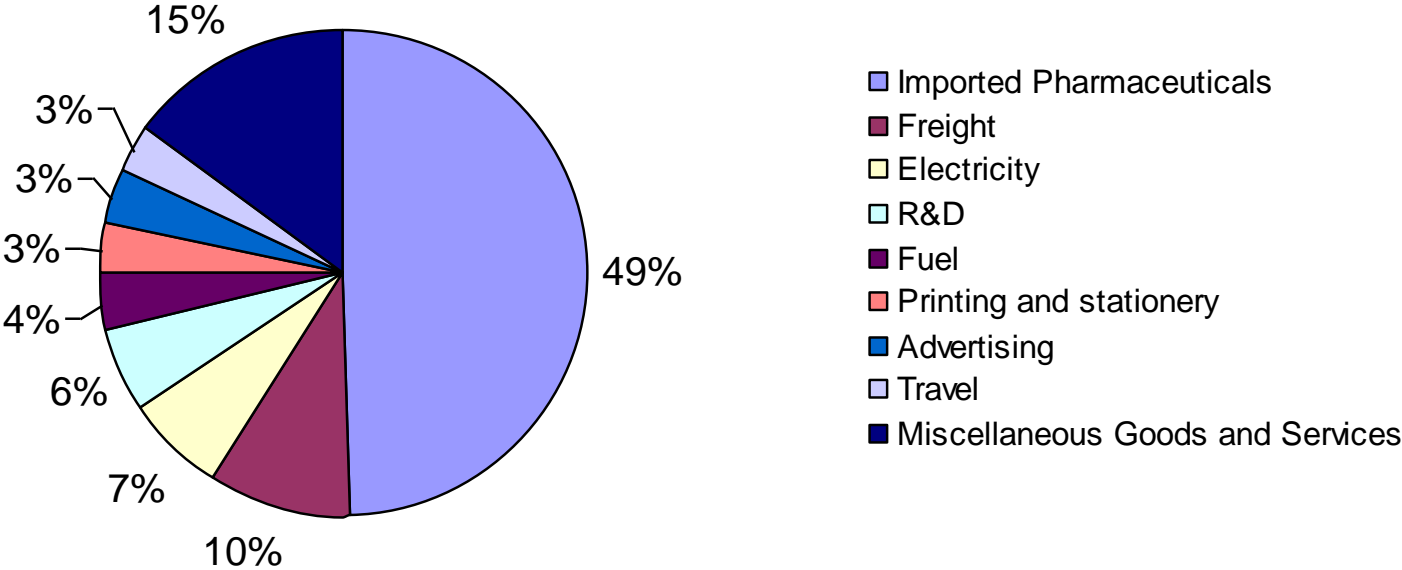
NAB Carbon Neutral Claim

Australia's First carbon Neutral Bank



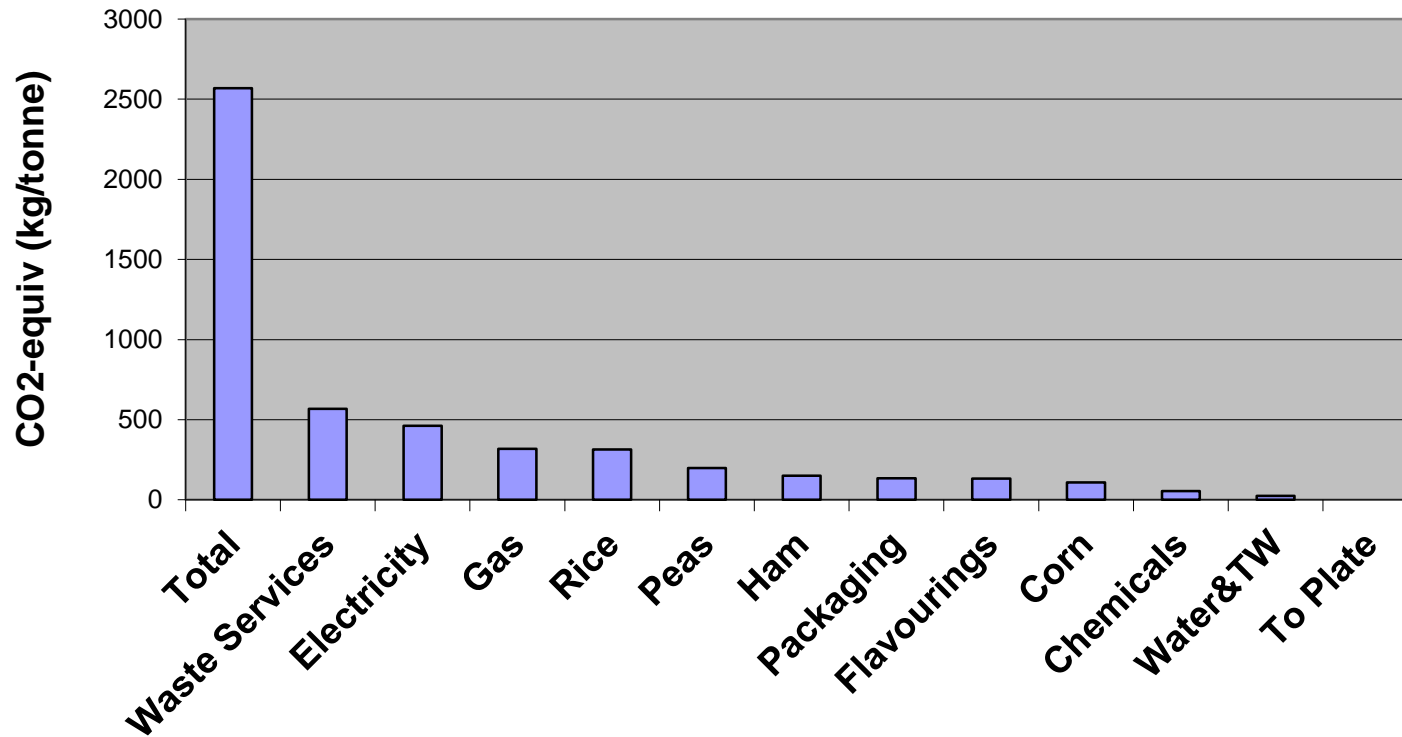
Pharma Importer

Carbon Inventory - Pharmaceutical Importer



Shelf Stable Packaged Rice Meal

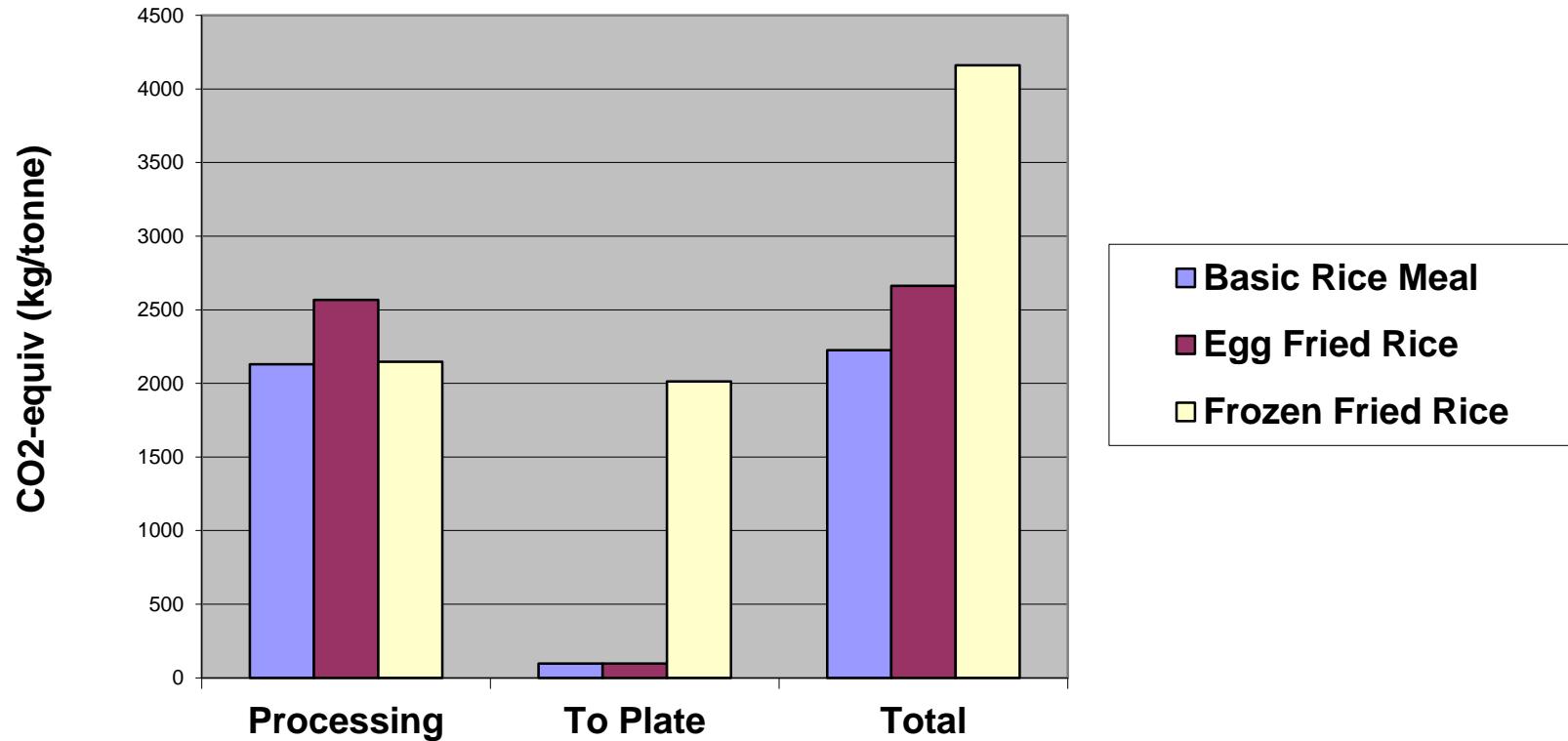
Carbon Footprint Egg Fried Rice 250g



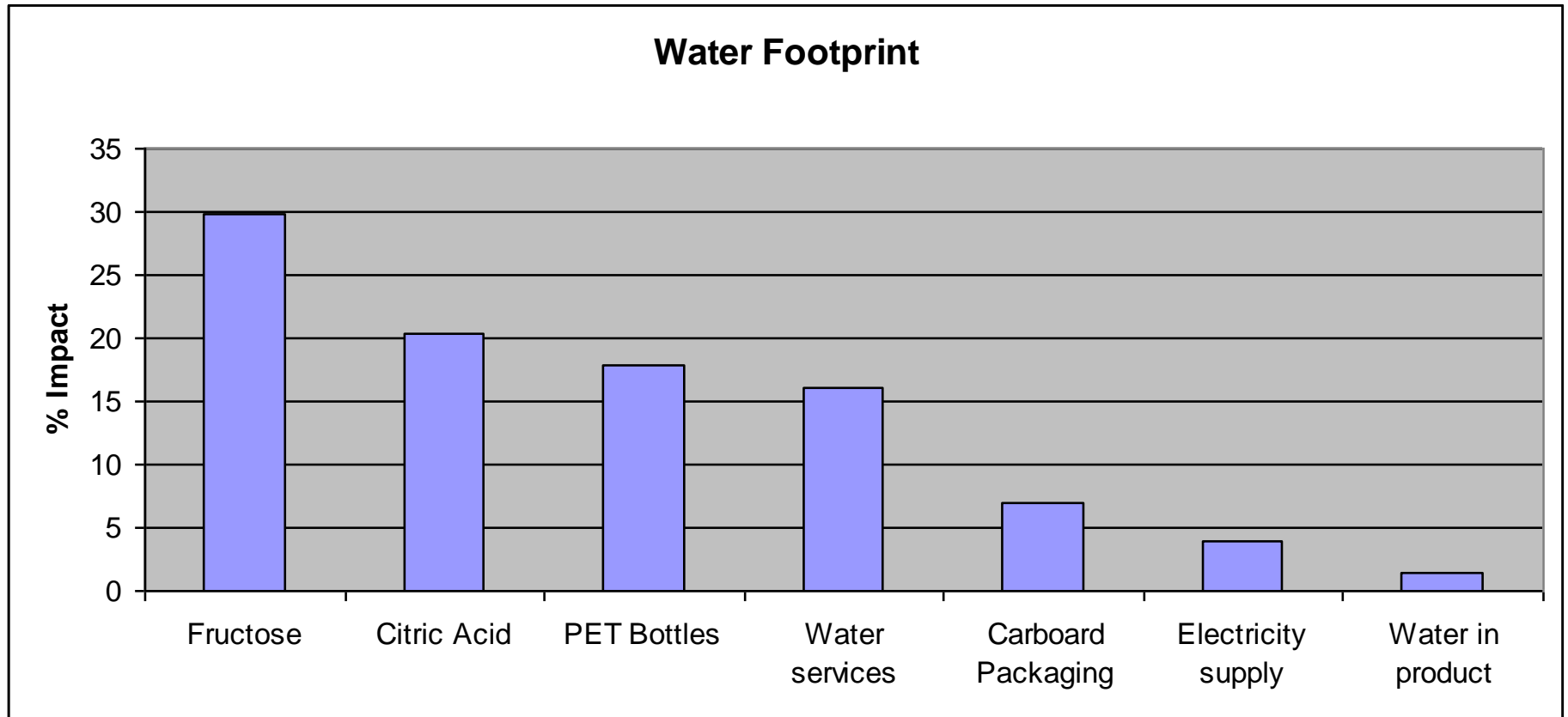
Packaged Rice Meals

Shelf Stable vs. Frozen

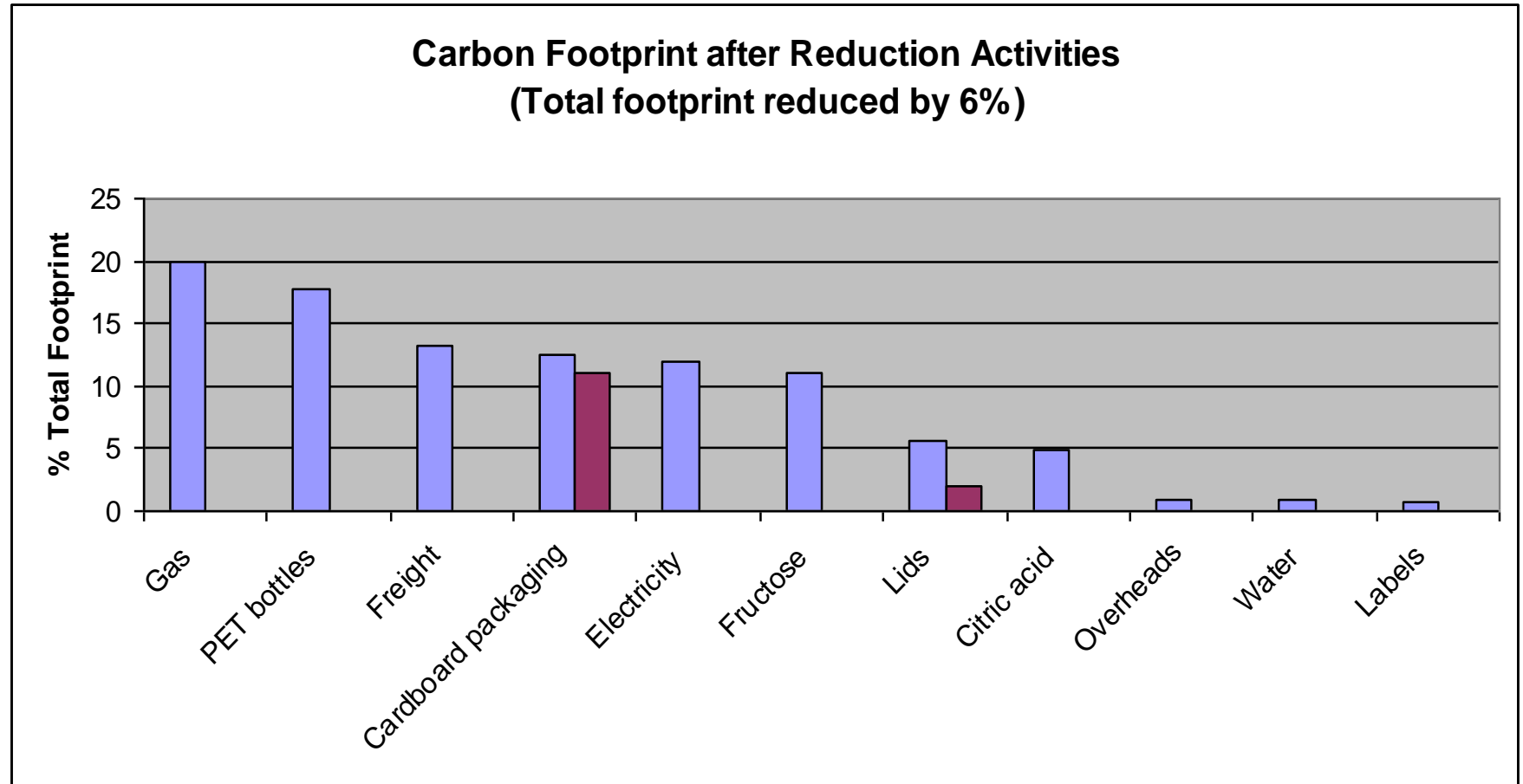
Comparison of Carbon Footprints for Products



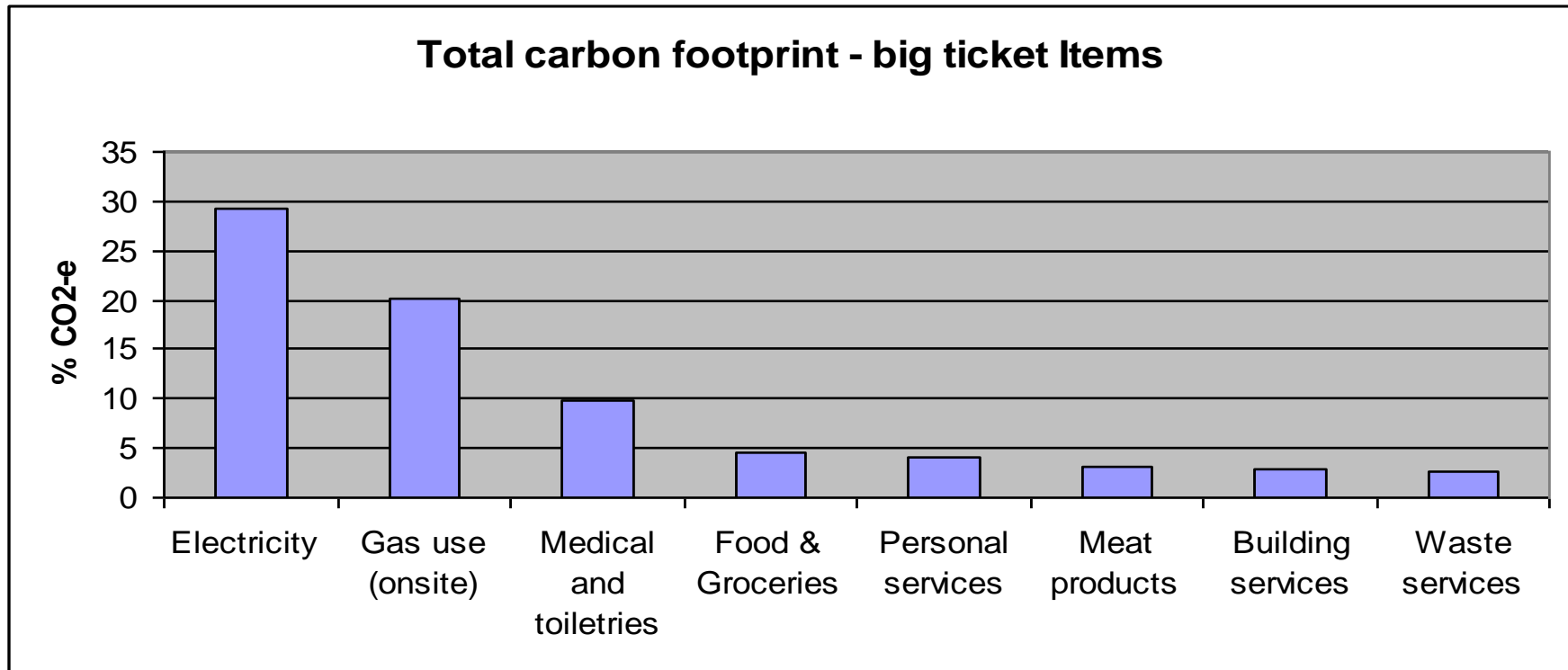
Fruit Flavoured Bottle Water Product



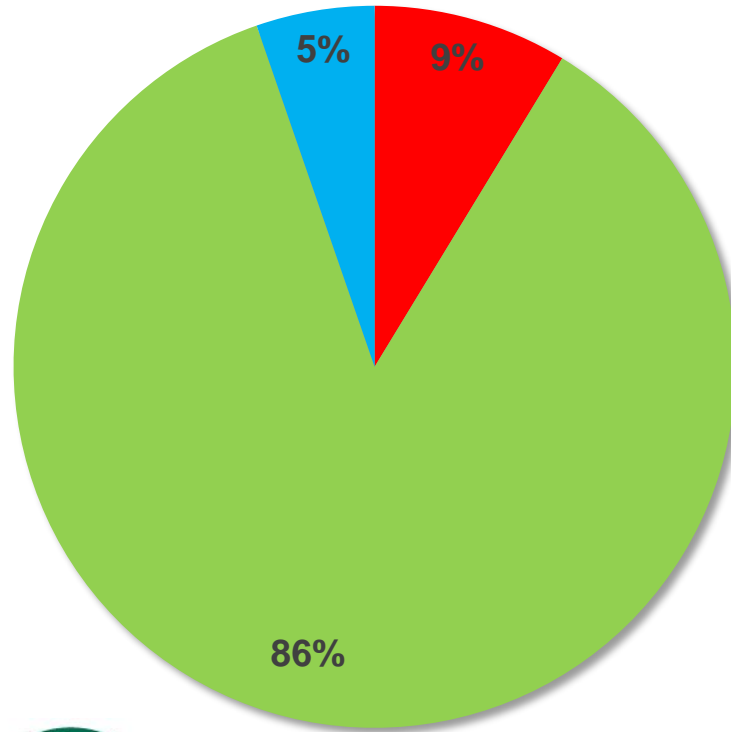
Fruit Flavoured Bottle Water Product



Aged Care Facility



Sustainable Fabric Supplier Carbon Neutral Certification (NCOS)



■ Fuel & Electricity (Scopes 1 & 2)

■ Woolen Fabrics (Ecoinvent)

■ Supply Chain (IO)

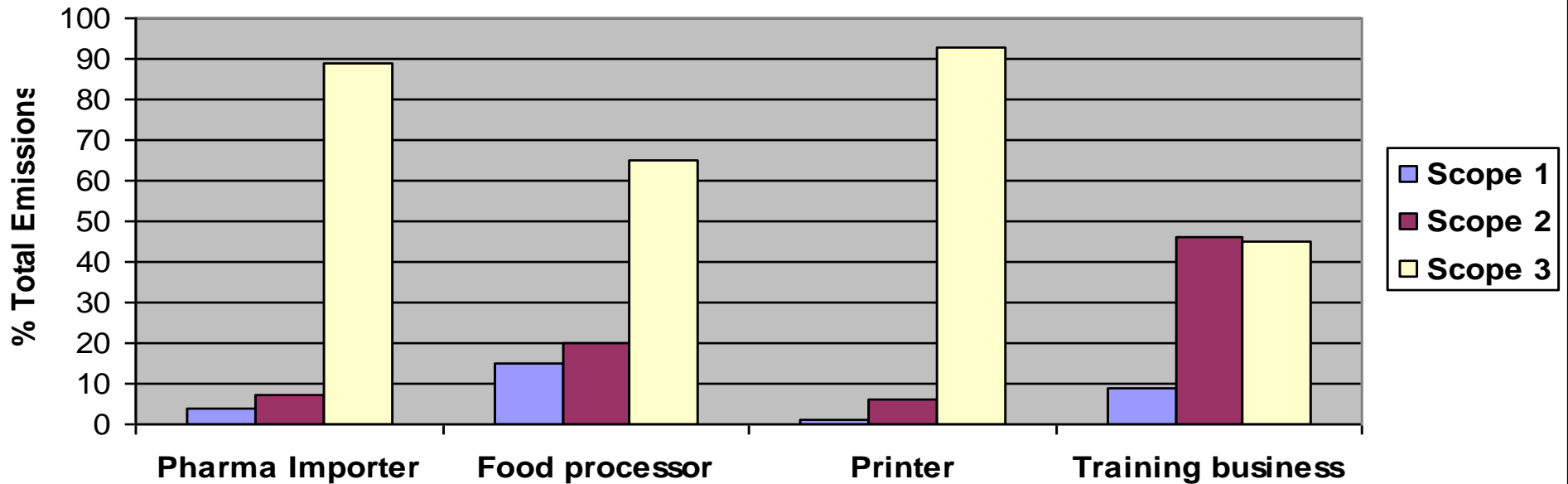


An Australian Government Initiative

Greenice[™]

Supply Chain Exposure

Scope of Emissions



Learnings



- Powerful Strategic Tool:
 - Planning
 - Communication, internal & external
- Infinitely scalable:
 - No boundary
 - Product >>firm>>corporation>>region>>nation
- Financial tool – not engineering
 - Linked to P&L (\$)
- Presentation and interpretation is critical

Challenges



- Traditional LCA practitioners and auditors don't like it:
 - Don't understand it
 - Doesn't comply with standards!!
 - Not accurate enough
- Seen as a research tool – not as a strategic tool for business
- Need more business focused case studies
- Need to demonstrate value

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