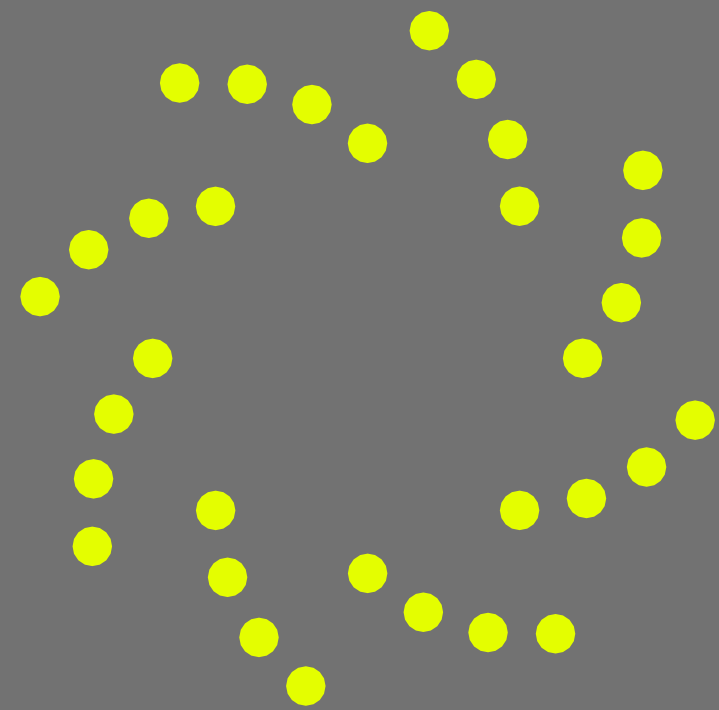


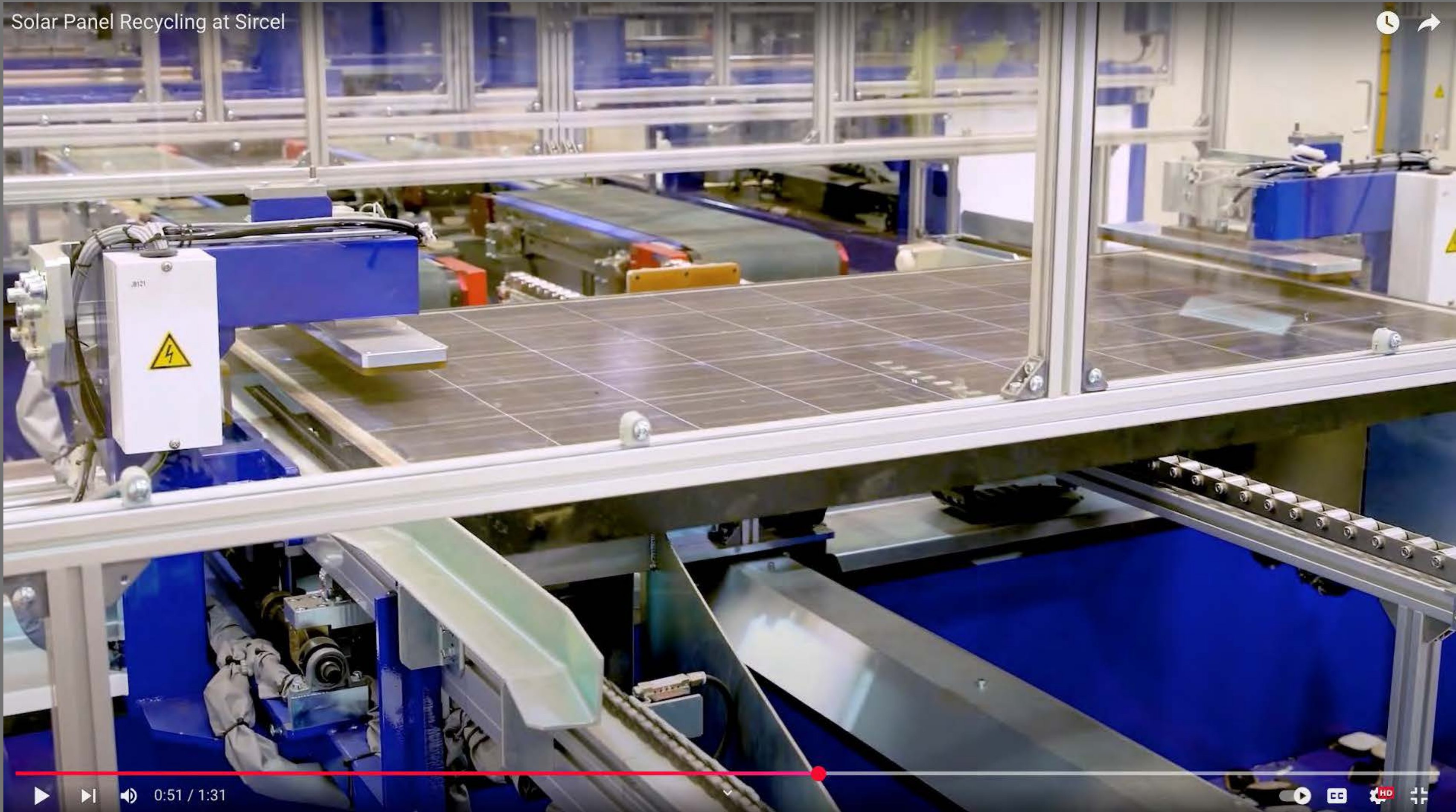
making **better** possible
turning e-waste & solar panels into e-
resources

Alexander May, technical engineer



sircel


Solar Panel Recycling at Sircel





Australia's largest e-waste processing business

Up to 100% diversion from landfill rate

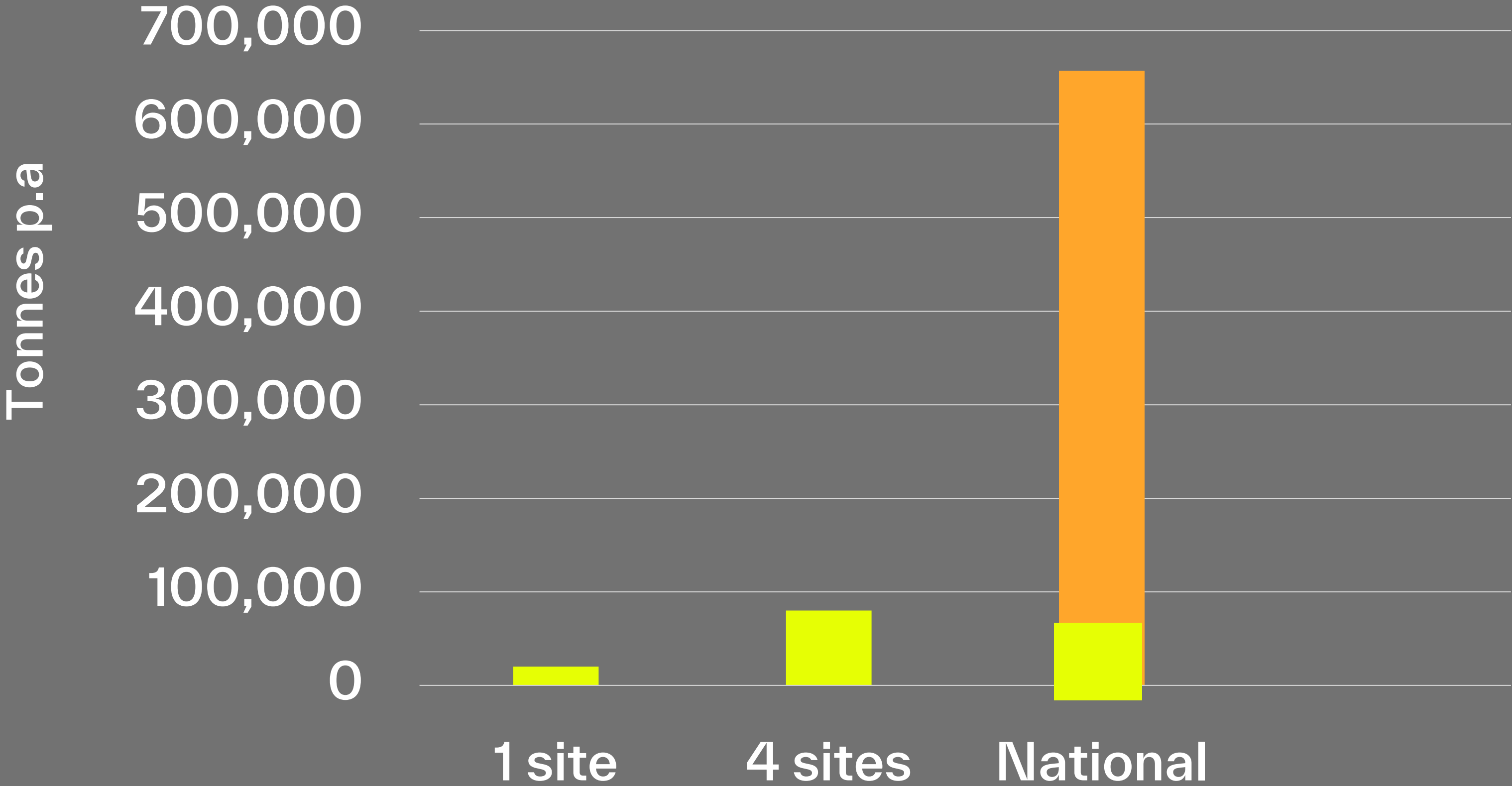


22kg per person
657,000T by 2030

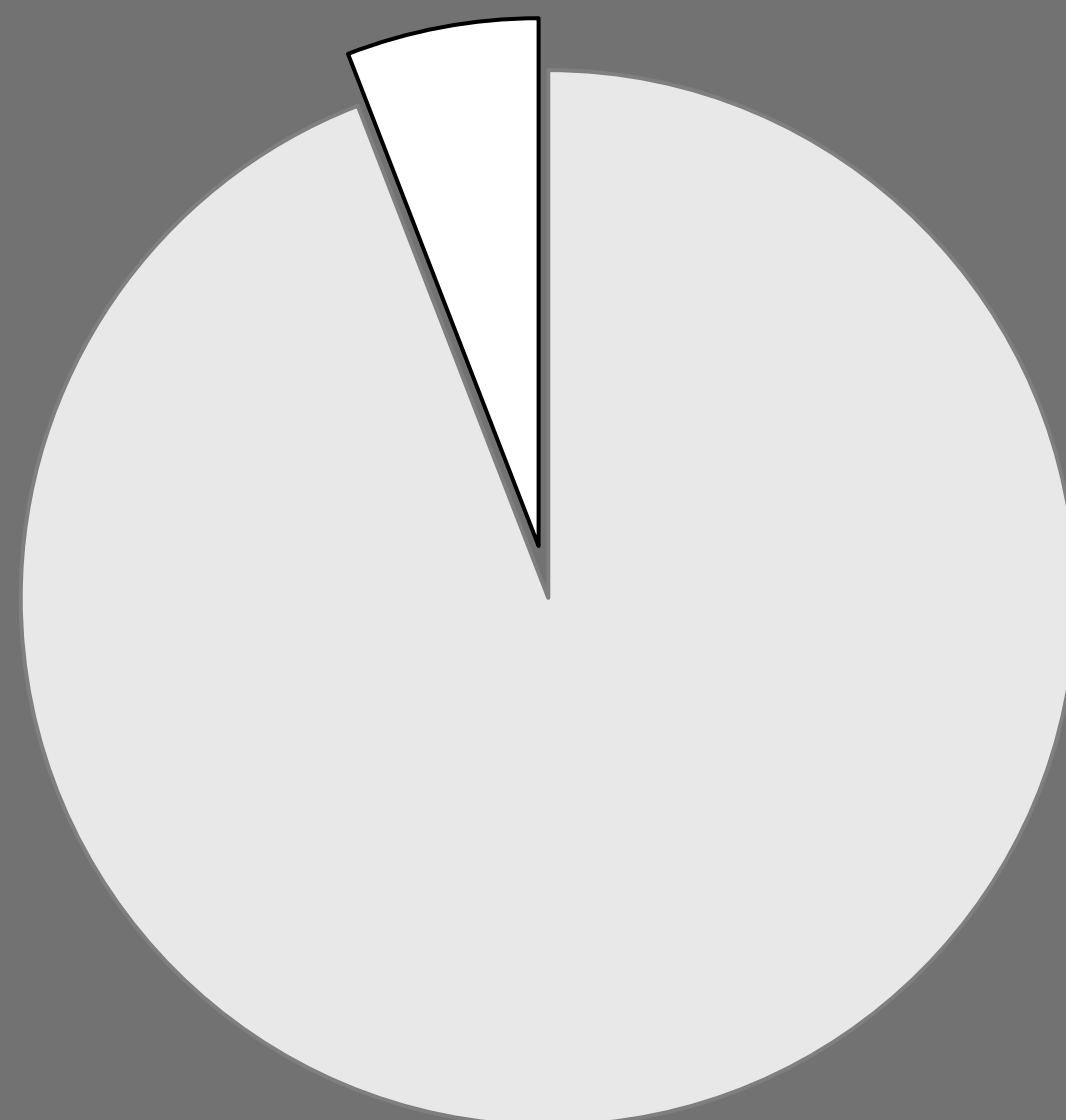


**2m end-of-life panels
4.5m by 2030**

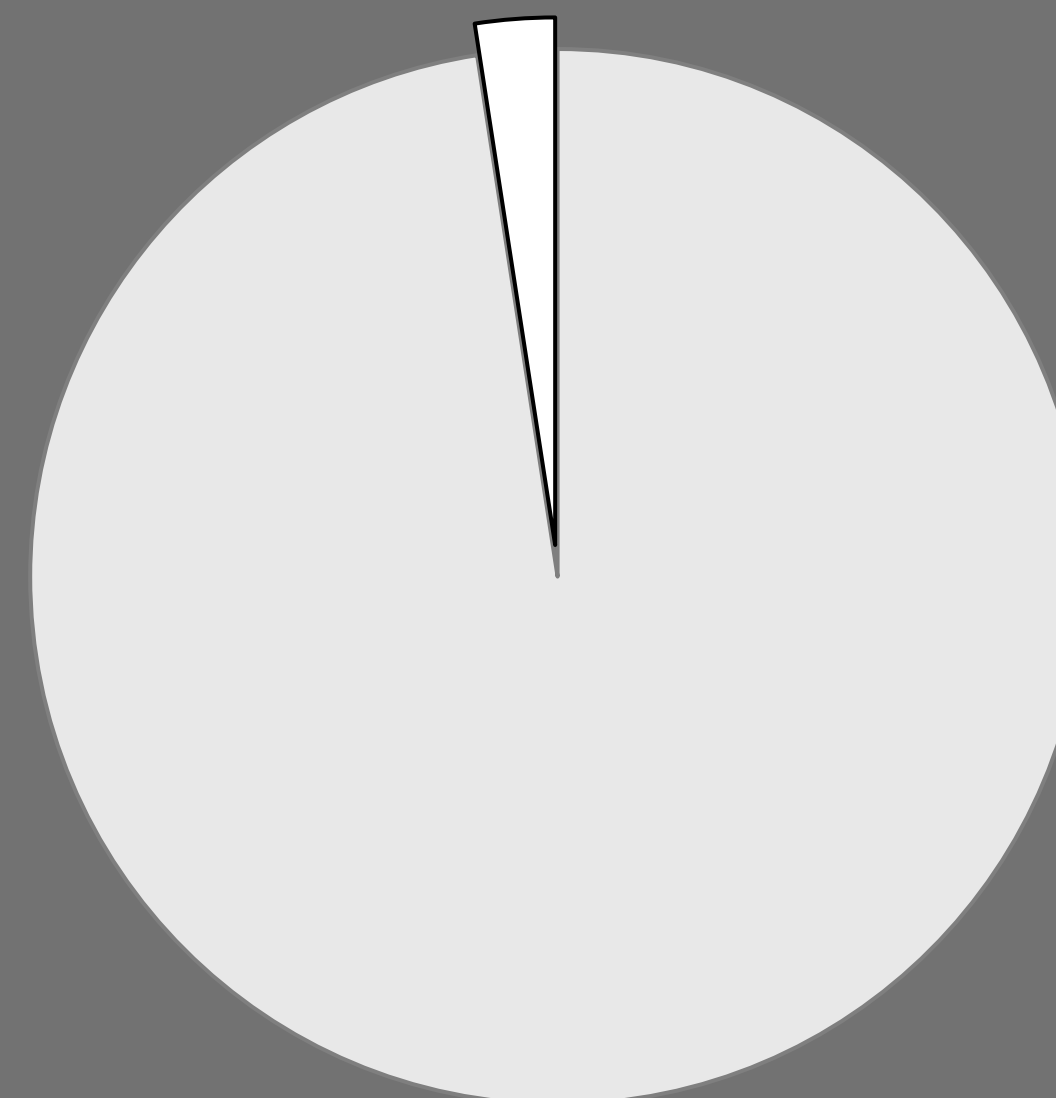
e-waste processing



Solar panels vs. Processing capacity



Today



2030

**15% of solar panels are
“recycled”**

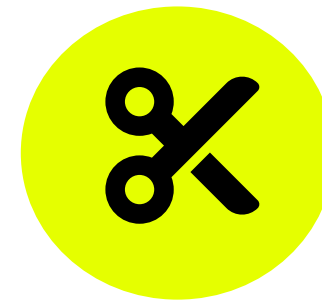
**The balance?
Landfill or shipped overseas**

~~waste~~
~~recycling business~~

green technology company



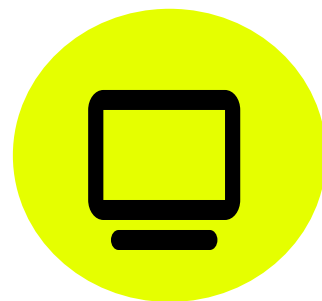
Pre-collection
Event Design, Marketing and
Education



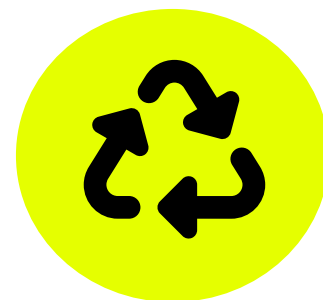
Onsite Decommissioning



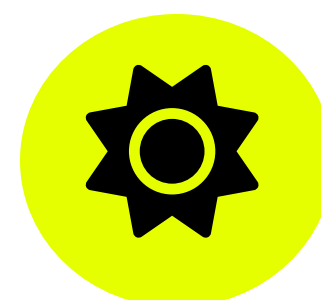
Collection



Asset recovery and
repurposing



Recycling



Solar Panel Recycling



Reporting

hot-knife
separation
shred-and-screen



**Basel Convention updates:
now in effect**



Pending:

ban on solar in landfill

solar recycling scheme



Challenges:

freight costs

safety

local manufacturing

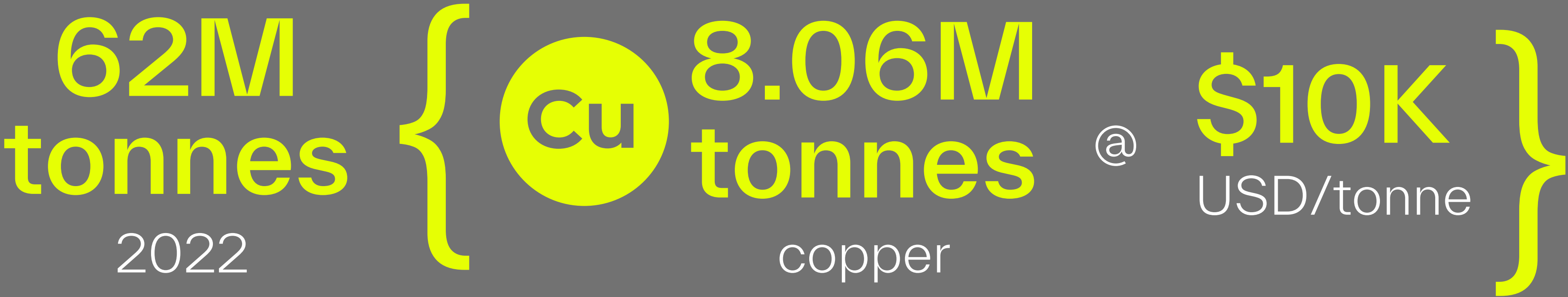
Driving **change**

3 **key** principles

- 1 'e-waste' & solar as their own discreet categories
- 2 harmonised national legislative environment
- 3 a 'whole-of-system' approach

62M
tonnes

2022





sircel

62M
tonnes
2022

{ 8.06M
tonnes
copper

@ \$10K
USD/tonne

}

potential

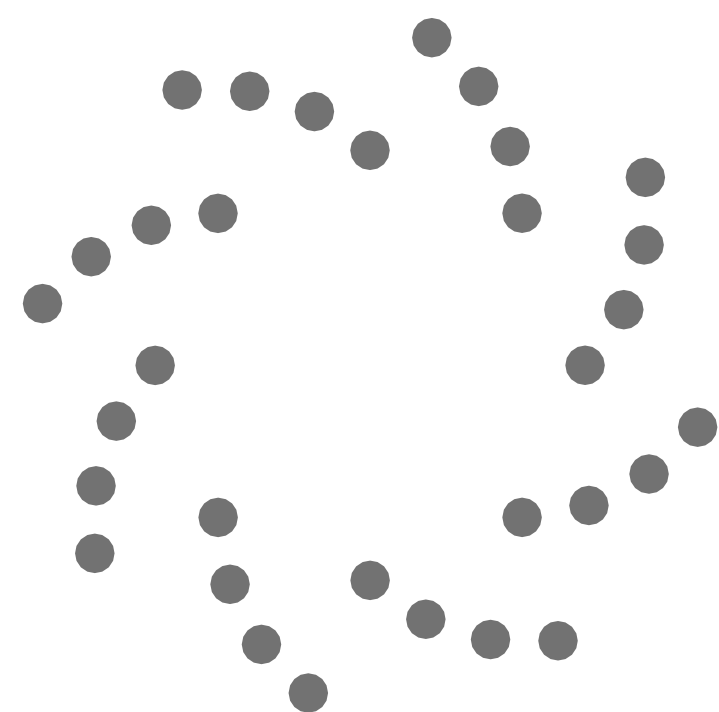
\$ 80 B
USD
buried in landfill

8.06M
tonnes



\$80B
USD

one commodity. one year.



It's time to do **better**

Thank you