C waste consultants Celebrating 26 years

Will we achieve 80% recovery without EfW? What does the data say..



October 2023

Some fundamentals

- All metropolitan Sydney councils 11 councils
- 220 households per council
- Sample proportional to ABS census housing data
- SUDs and MUDs collected and reported separately
- Adjusted by collection frequency to express = kgs / hhld / week
- Divided by total number of households = **per household**
- Generation (kilograms per household per week)
- **Composition** (per cent by weight)

Data source parameters



Overall MSW total waste generation



- Average waste generation 14.8kgs per hld per week
- Overall general waste 58% of all waste generated
- SUDs 52% and MUDs 67%

Overall total waste generation - range



- Total waste generated range 8 kgs to 19 kgs per hld / week
- General waste range 5 kgs to 12 kgs per hld / week
- SUDs range 5 kgs from 8.6 kgs to 13.8 kgs per hhld per week
- MUDs range 6 kgs from 3.7 kgs to 9.9 kgs per hhld per week



Overall general waste detailed composition





Overall general waste by key stream







General waste composition by housing stock





General waste summary



81% general waste are 7 key categories

Recovery rates by material

- Overall average 82% all materials
- > 80% for paper, glass, vegetation
- <50% for LPB, plastics, steel, aluminum



SUD MUD Overall

Landfill diversion -Theoretical maximum

Current - 37%

- ▶ 19% from recycling
- ▶ 18% from garden organics
- ► Max use of existing systems 45%
- ► 7% recycling
- ► 1% garden organics

<u>Assumptions</u>

- ▶ If 100% of hhlds, sort **ALL** materials
- All loose food recovered 18%
- ▶ All textiles and CRC items 4%

Max possible 67%



Landfill diversion -Possible case

Current - 37%

- ▶ 19% from recycling
- ▶ 18% from garden organics

<u>Assumptions</u>

- No improvement in current systems - still at 37%
- ▶ 60% loose food recovered 11%
- ▶ 50% textiles and CRC items 2%

Max possible = 50%



Landfill diversion -Probable case

Current - 37%

- ▶ 19% from recycling
- ▶ 18% from garden organics

<u>Assumptions</u>

- No improvement in current systems - still at 37%
- ▶ 30% **loose food** recovered 5%
- ▶ 30% textile recovery -1%

Max possible = 43%



Total waste generation - 58% is general waste (red bins)



Average hhld generates 8.6kgs per hhld per week of general waste



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Current landfill diversion = 37%

Theoretical max @ 100% recovery all streams = 67%

5

Possible

@ 60% loose
food recovery =
50%

Probable

@ 30% loose
food recovery =
43%

Key outcomes



Thankyou

Anne Prince

E: <u>anne@aprince.com.au</u>

M: 0425251271