



City of Fremantle

Carbon Neutral Program

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Carbon Neutral

1. **Measure** Emissions
2. **Reduce** energy use
3. **Switch** to clean energy sources
4. **Offset** residual emissions

What issues have we faced?



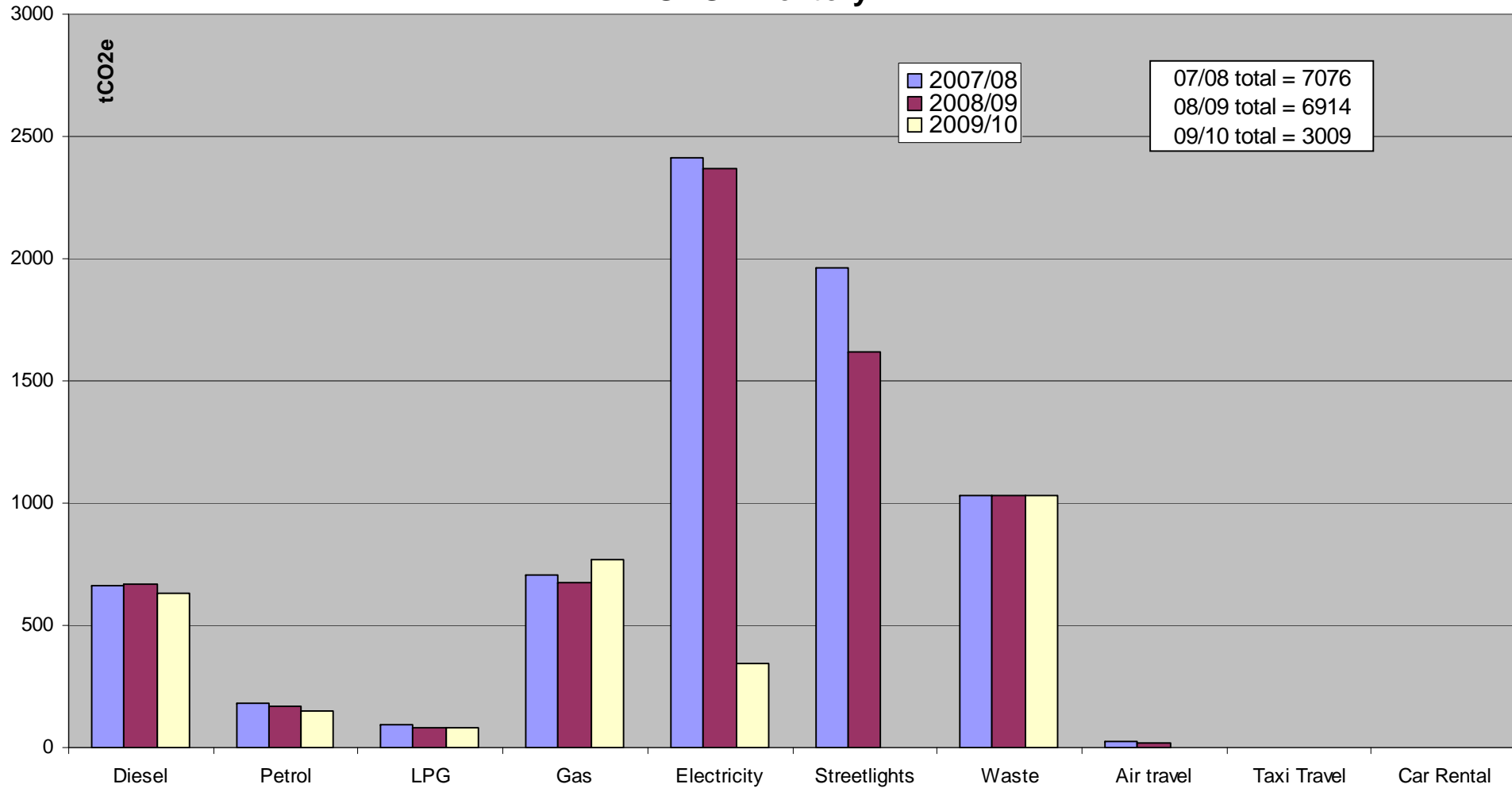
Measure



- Using an ICLEI framework, which is comparable to GHG Protocol
- NGER calculations where possible



GHG Inventory





Reason to focus on Reducing



- Emissions are never emitted
- Reduce ongoing costs
 - GreenPower is expensive
- Permanency
 - Offsets/GreenPower need to be bought every year
 - You lock in GHG savings
- Not everyone can be carbon neutral through offsets



Reduce – what we're doing

- CCP member since 1991
- Pool blankets
- Reduce small fleet by 10 cars in last 3 years
- Efficient IT equipment
- Have an internal, multi-discipline, energy audit team
- Planning 4.5 NABERS retrofit for our largest buildings
- Developing a Low Carbon City plan

- You're probably all doing similar things



Switch – what we're doing

- Switched to LPG for most cars
- 25% GreenPower for streetlights, Dec 08
- 100% GreenPower for all electricity July 09
- Installed 30kW solar farm
- Resulted in ~65% emission reduction so far
- Installing renewable pool heating





Offsets

- We use GreenhouseFriendly™ (SMRC)
- Still using GF post NCOS



An Australian Government Initiative



Issues – outsourcing our abatement

- Spent first year on carbon accounting
- So far, we're outsourcing most of our abatement through GP and GF offsets
- Now focusing on reducing energy use
- Considering using GP money to install our own generation capacity



At least there's lots of low hanging fruit





Issues

- Consulting fees have been 2-3 times what we spend on offsets
- Hopefully this has just been to do with setting up our carbon accounting
- Will start conducting bi-annual verifications instead of annual
- We're upgrading our finance systems to capture activity data as we create invoices



Issues – National Carbon Offset Standard



Versus



An Australian Government Initiative

&

we are
carbon neutral



Some of the wins

- Abating 7000 tonnes of GHG every year!!
- The Council identifies itself as Carbon Neutral (ie longevity)
- All community feedback has been positive
- Starting to get good recognition of what we've done
- Have requests from other local governments on where to start



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