Carbon Management Framework

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About MEFL

Our History

Our Mission
Local Government & Carbon

We know....
> Local Government has a social contract to act
> Local Government has an important role

We understand...
> Climate change will impact local government services
> Costs are now beyond “discretionary” environmental

But....
> Political statements have not always led to effective action
> Managing emissions can be ad hoc
Carbon Management
Carbon Management

- Corporate
- Planning
- Community
Carbon Management

Influence Emissions

Corporate

Planning

Community

Moreland Energy Foundation
Carbon Management Framework
Corporate Example
- *Moreland Council Carbon Management Strategy*

**Strategy:**
- Carbon Neutral political commitment
- Needed cohesive plan

**Data:**
- 80% of emissions from 10 sites
- Data available to act, difficult to monitor/report

**Implementation:**
- Integration into Council processes
- Secured investment
Corporate Example
- Moreland Council Carbon Management Strategy

Council Corporate Emissions CO2 e-
2014/15

- Public Lighting
- Waste
- LPG (transport)
- Petrol
- Diesel
- Natural Gas
- Electricity

2010/11 2014/15 BAU CMS 2014/15
Streetlighting (Committed)

Energy Efficiency (Committed)

Cogeneration (Proposed)

Additional Energy Efficiency (Proposed)

BAU 2.5 x (Core Carbon Price)
Planning Example
- Moreland Planning Initiatives

**Strategy:**
> Key opportunity to influence new developments
> Developers seeking consistent sustainability

**Data:**
> Urban development key challenge for Melbourne
> Emissions impact much broader than electricity, gas

**Implementation:**
> STEPS/ SDS, SDAPP
> Sustainable Urban Development Framework
Planning Example
- Sustainable Urban Development Framework

On-site energy generation can reduce transmission losses by being located close to the final point of electricity use. Additionally, on-site generation that uses low-carbon or renewable resources can significantly reduce the greenhouse gas emissions associated with fossil fuel-based generation.
Development Process

- **Concept**: Principles, goals and targets
- **Masterplan**: Vision, core components, and broad delivery strategy
- **Design**: Detailed design – what infrastructure will deliver the vision?
- **Construct**: Deliver ‘hardware’
- **Operate**: Deliver ‘software’ maintain and update vision
Community Example
- Zero Carbon Moreland

Strategy:
> Next decade key to climate response
> Drive action above BAU

Data:
> Households ~ 18% of emissions, link to other sectors
> 79% want more information, 89% willing to take action

Implementation:
> Information not enough, needs to link directly to action
> Accessible over long term
Community Example
- Zero Carbon Moreland
Community Example
- Zero Carbon Moreland

Original
- Family, 3 Children

Energy Efficiency
- Lightbulbs

Energy Efficiency
- 20% Efficiency

Energy Efficiency
- Kitchen Renovation

Energy Export
- Onsite Generation

- Waste
- Other
- Air Travel
- Car #2
- Car #1
- Gas
- Electricity

Moreland Energy Foundation
Community Example
- Clean Energy Solutions

Key findings

- Products: 294
  - Solar electricity systems: 225
  - Solar hot water systems: 34
  - Electric bicycles: 35

- Registrations: 1176

CO₂ yearly saving
NAGA total: 827 tonnes CO₂-e/year¹
Equivalent to taking 197 cars off the road each year¹

452kW - Total installed solar electricity capacity
Community Example
- Effective Business Models

Local Governments across Victoria

- Subscription fee ($)
- Service fee from product installations ($)

positive charge

- Deliver and install energy efficiency products
- Link to free services, rebates and government programs
- E-newsletter
- Online portal
- Tailored sustainability advice
- Community engagement

Participants
Reduce utility bills, improve home energy efficiency and comfort and reduce carbon emissions.
Conclusion

Data

> What’s critical for action?
> What’s needed for reporting?
> What’s a distraction?

Strategy

> Understand focus, 80:20
> What are the drivers
> Consider influence

Implementation

> Small wins important
> Integrate with existing
> Review, feedback

Time