



Peace River Regional District

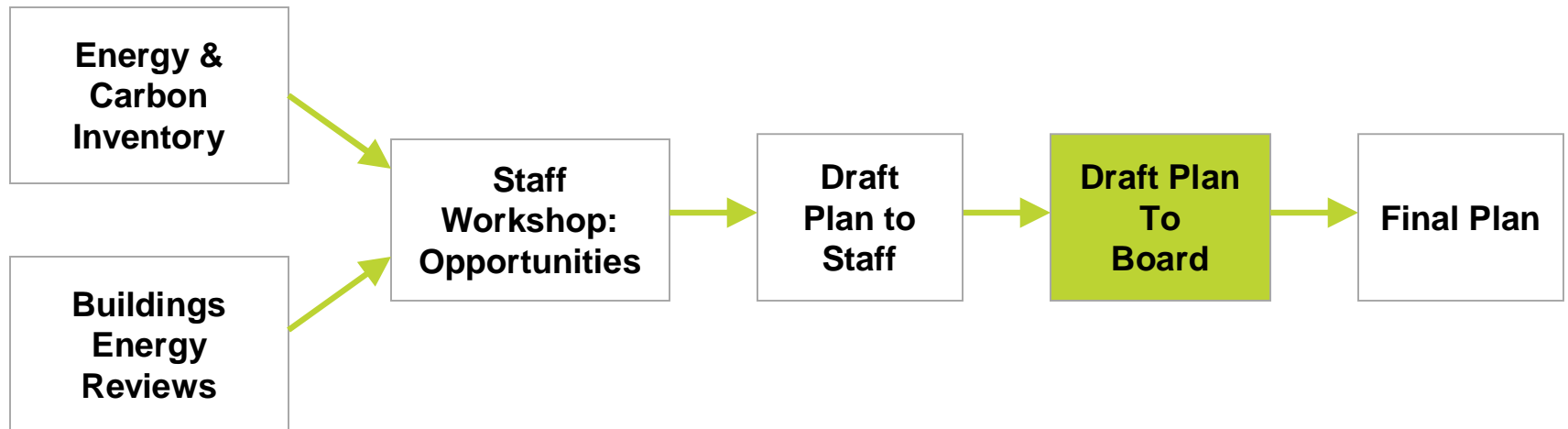
Corporate Energy Plan

December 11, 2009
Board Meeting

The Sheltair Group (now Stantec)
Cariad Garratt

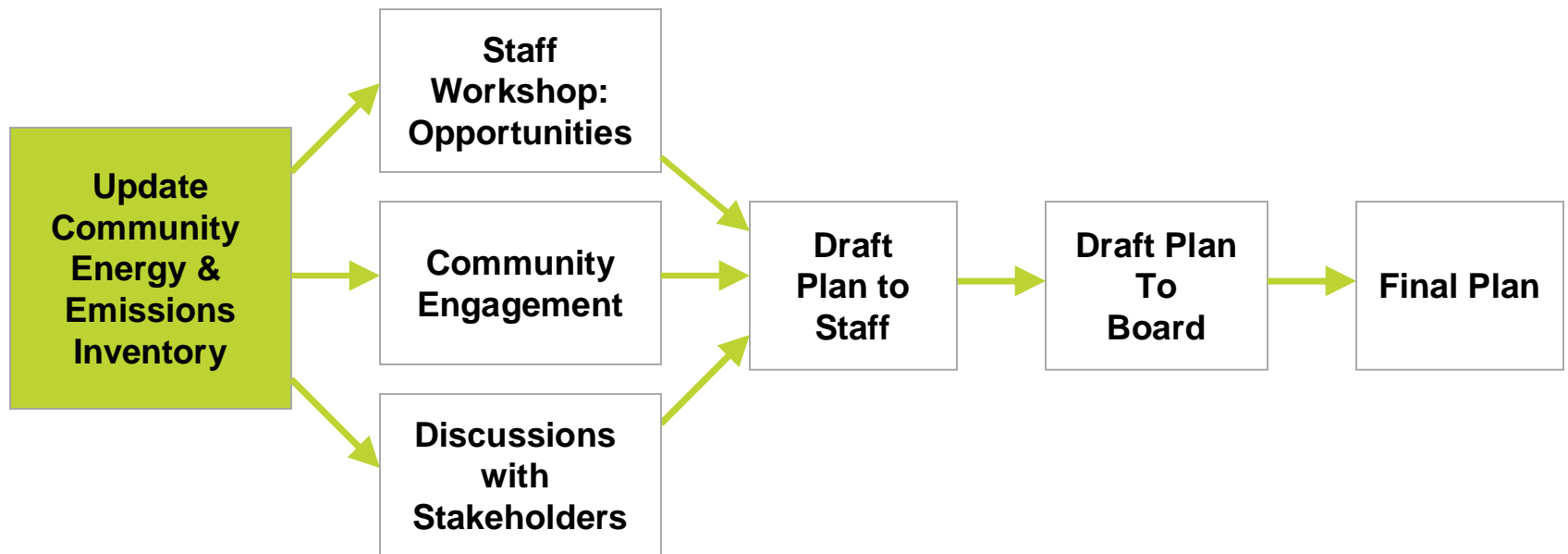
Project Process: Phase 1

Phase 1: Corporate Energy Plan (August – December)



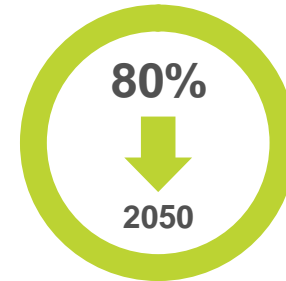
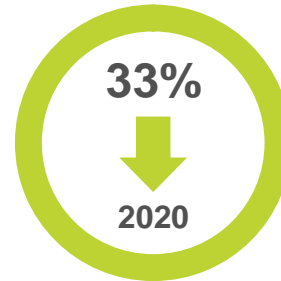
Project Process: Phase 2

Phase 2: Community Energy Plan (December – April)



Context for Climate Action

**Greenhouse Gas Reduction
Targets Act**
(Bill 44, 2007)



**Local Government
(Green Communities)
Statutes Amendment Act**
(Bill 27, 2008)



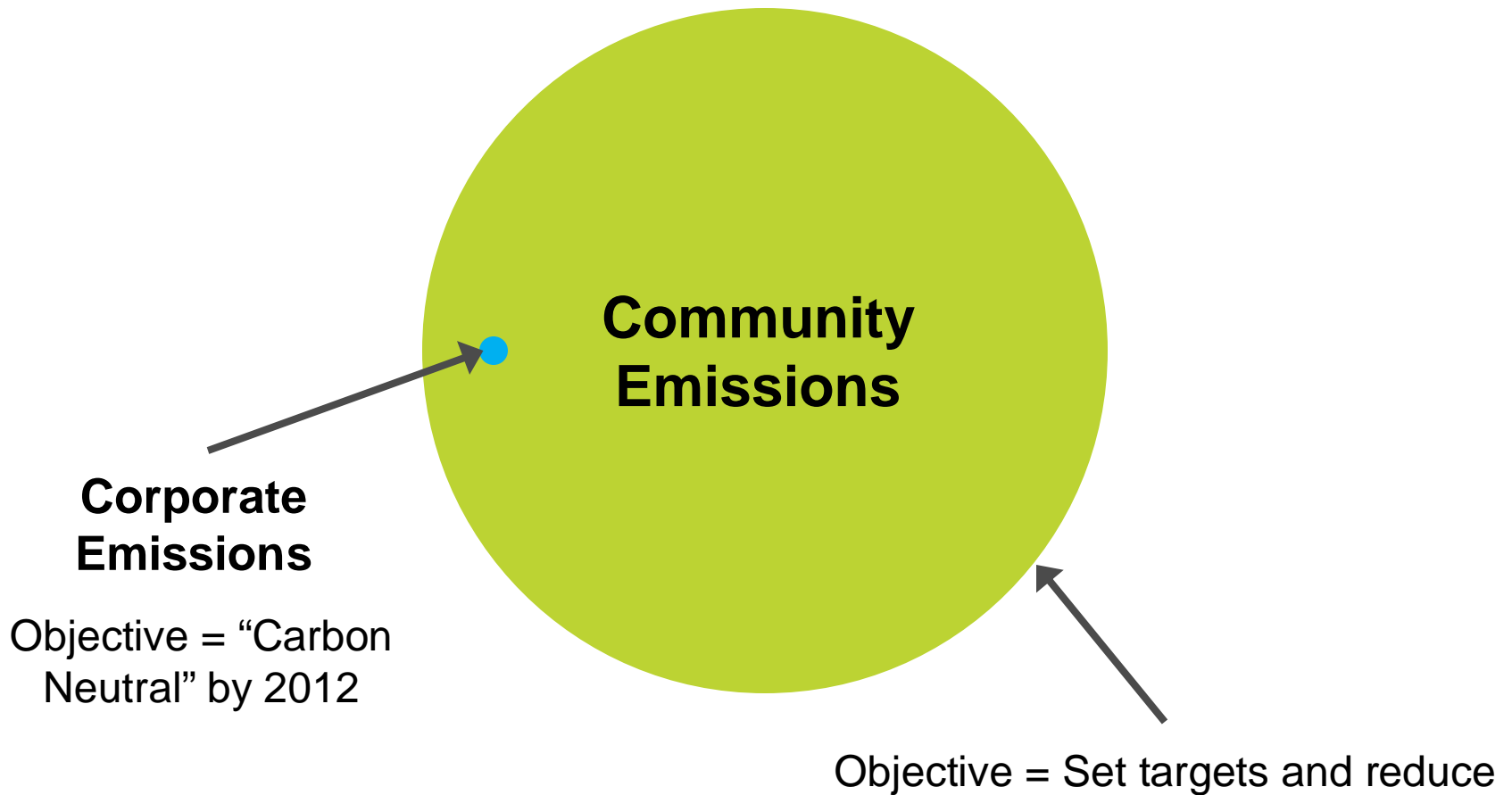
Requirement to revise OCP / RGS
with a community-wide GHG
emissions reduction target

Climate Action Charter
(2007)



Carbon neutral operations

“Corporate” vs. “Community”

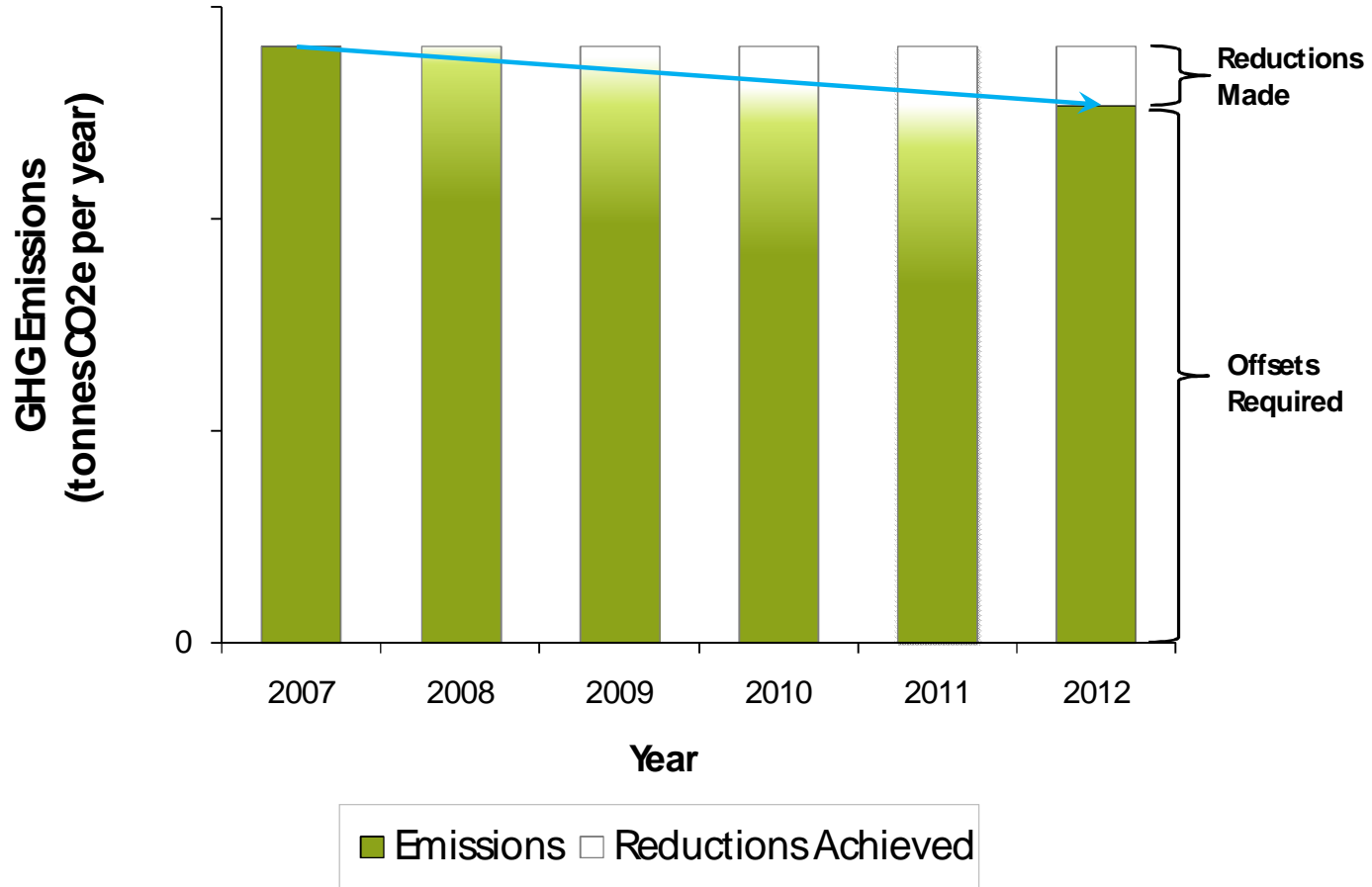




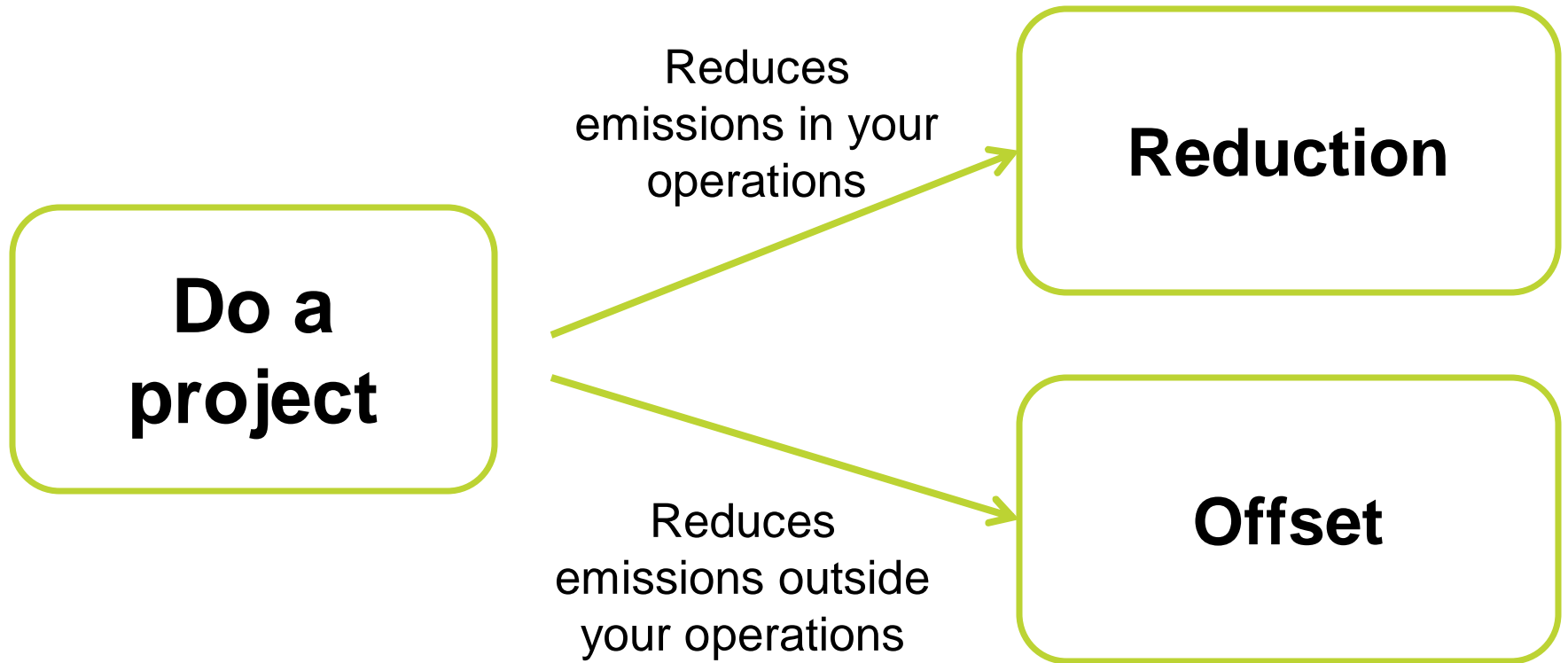
Climate Action Charter

- RD to be '**carbon neutral**' in operations by 2012
- Measure and report community emissions (Province is providing initial inventories)
- Create complete, compact, more energy efficient rural and urban communities

Carbon Neutral



Offsets vs. Reductions



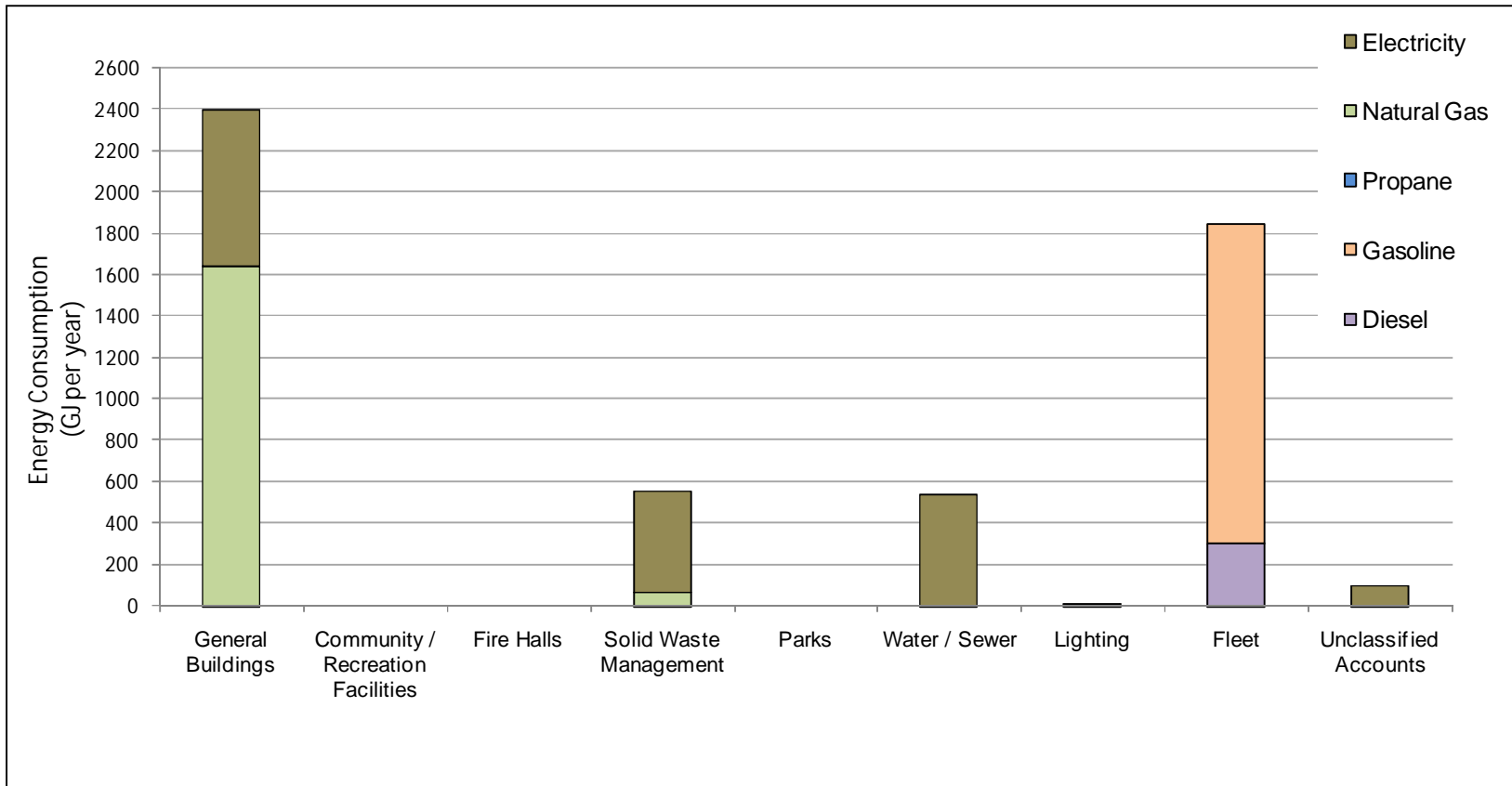


Existing PRRD Initiatives

Highlights of corporate conservation initiatives in PRRD:

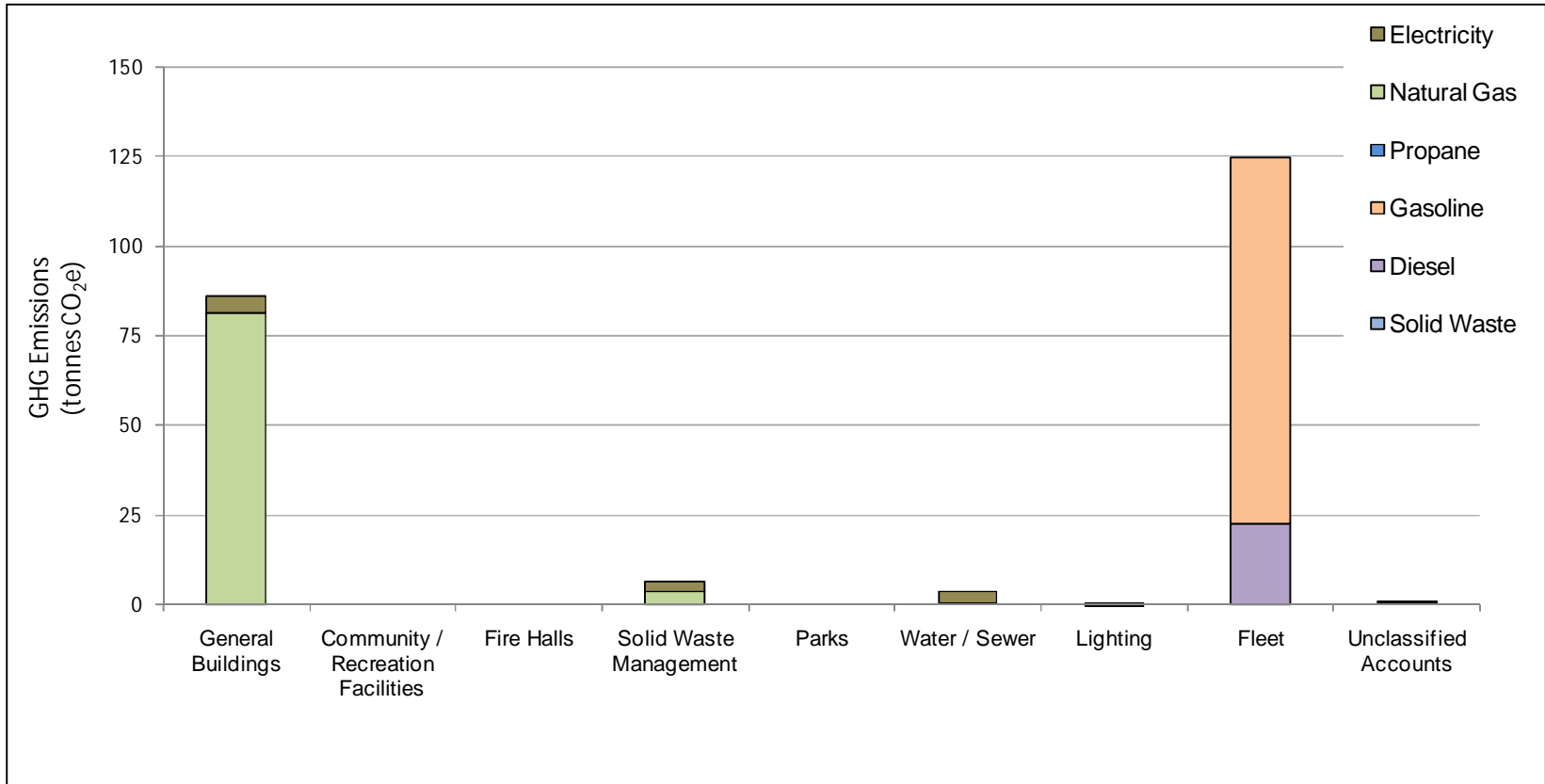
- Retrofitting interior lighting
- Evaluating options for right-sizing vehicles
- Tracking mileage from personal vehicle use

PRRD Corporate Energy Consumption: 2008



Total = 5,470 GJ of Energy
Cost = \$127,000 per year

PRRD Corporate Carbon Footprint: 2008



Total = 221 tonnes of CO₂e

Corporate Emissions in PRRD

Local Government	2008 GHG Emissions
PRRD	221*
Village of Pouce Coupe	86
District of Taylor	702
District of Chetwynd	1,263
District of Tumbler Ridge	1,050

Action Plan: 18 Recommendations

Theme Area	Number of Actions	2008 GHG Emissions	Estimated Reductions
Existing Buildings	3	92	25-30
Fleet	4	124	15
Infrastructure	2	3	minimal
New Buildings	2	0	30% or more [of future emissions]
Purchasing & Leadership	4	n/a	[indirect]
Regional Collaboration	3	n/a	[indirect]



Theme: Existing Buildings

- **Current Building Emissions:** **92 tonnes**
- **Estimated Reductions:** **25-30 tonnes**

1. Retrofit buildings for energy efficiency
2. Promote energy efficiency practices among staff
3. Include energy efficiency in building maintenance



Theme: Fleet

- **Current Emissions:** **124 tonnes**
- **Estimated Reductions:** **15 tonnes**
 1. Select fleet vehicles with “right-sizing”
 2. Switch fuels or use additives to reduce emissions
 3. Reduce idling
 4. Train staff on energy efficient driving techniques



Theme: Infrastructure

- **Current Emissions:** **3 tonnes**
- **Estimated Reductions:** **minimal**
 1. Reduce energy requirements for water and wastewater infrastructure
 2. Convert exterior lighting to LED and/or solar power



Theme: New Buildings

- **Expected Reductions:** Reduces future emissions
 1. Develop an energy efficiency building policy
 2. Develop an alternative energy policy for new buildings and major renovations

Theme: Purchasing & Leadership

- **Estimated Reductions: Indirect**

1. Develop an energy efficient purchasing policy
2. Provide energy efficiency incentives for funding applications
3. Identify energy champions
4. Reduce corporate travel (carpooling)

Theme: Regional Collaboration

- **Estimated Reductions: Indirect**
 1. Participate in regional building energy performance benchmarking
 2. Establish a regional energy manager position
 3. Collaborate regionally on purchasing and training



GHG Emission Reduction Target

Proposed Target:

To reduce corporate greenhouse gas emissions by
15% from 2008 levels by 2015.



Implementation

■ Resources

- Existing staff resources
- Potential new regional energy manager
- Investments of \$100 to 150k (?) over 5 years

■ Funding

- Energy Savings
- Carbon Tax Rebate
- Internal Resources
- Funding Programs (e.g. BC Hydro)



Questions?

The Sheltair Group (now Stantec)

Cariad Garratt

cariad.garratt@stantec.com

604-696-8466