



THE SCHOOL  
OF PUBLIC POLICY

# ALBERTA'S SPECIFIED GAS EMITTERS REGULATION: A WHOLE LOT OF NOT MUCH

Jennifer Winter

The School of Public Policy, University of Calgary

October 23, 2014

# SGER Highlights

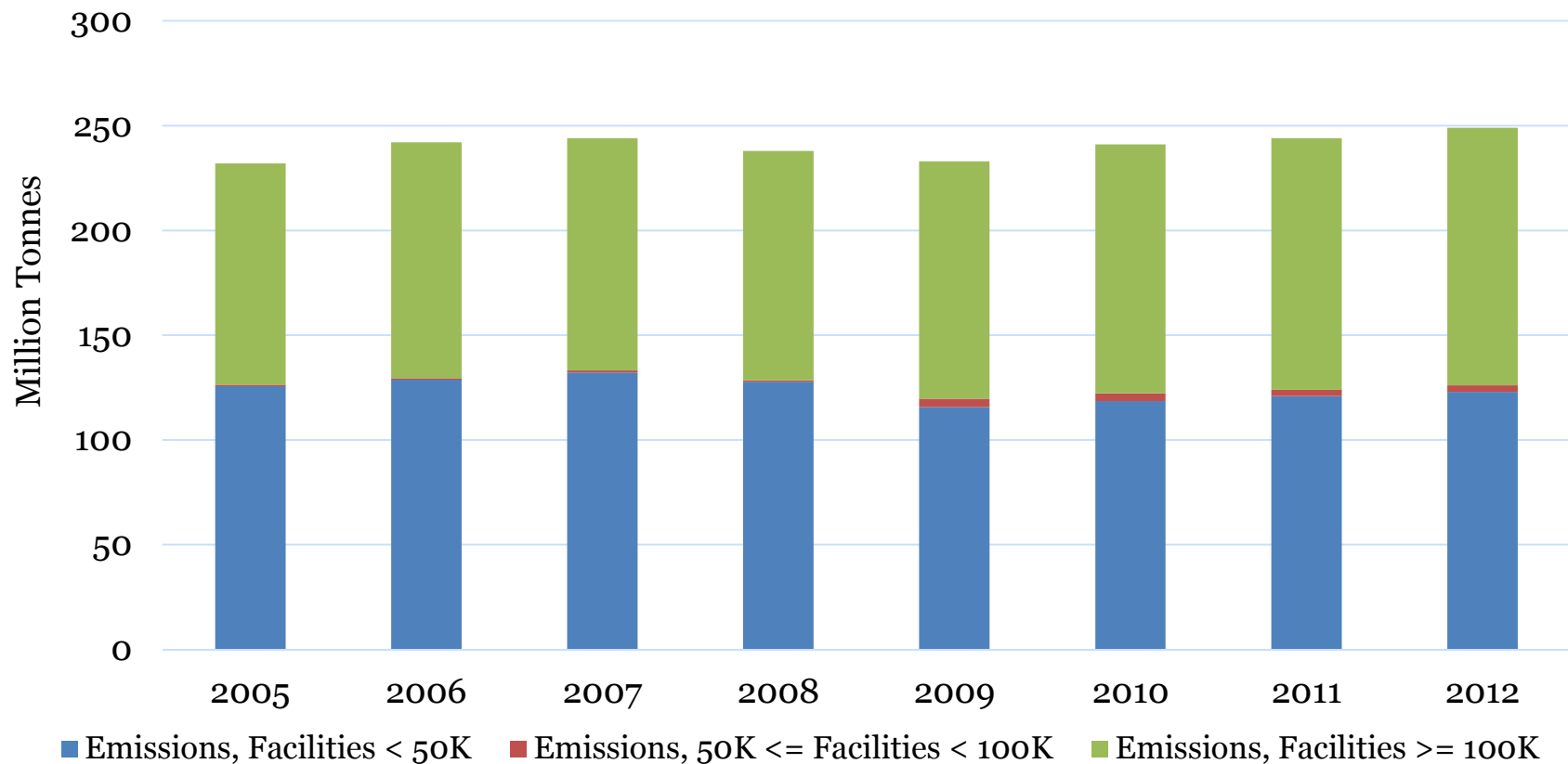
- Requires facilities with emissions > 100K tonnes of CO<sub>2</sub>-equivalent to reduce emissions intensity
  - Established facilities: 12% reduction
  - New facilities: 10% reduction
- Compliance options
  - Reduce emissions
  - Purchase emissions credits
  - Pay \$15/tonne for emissions not abated

# SGER Reduction Breakdown (million tonnes)

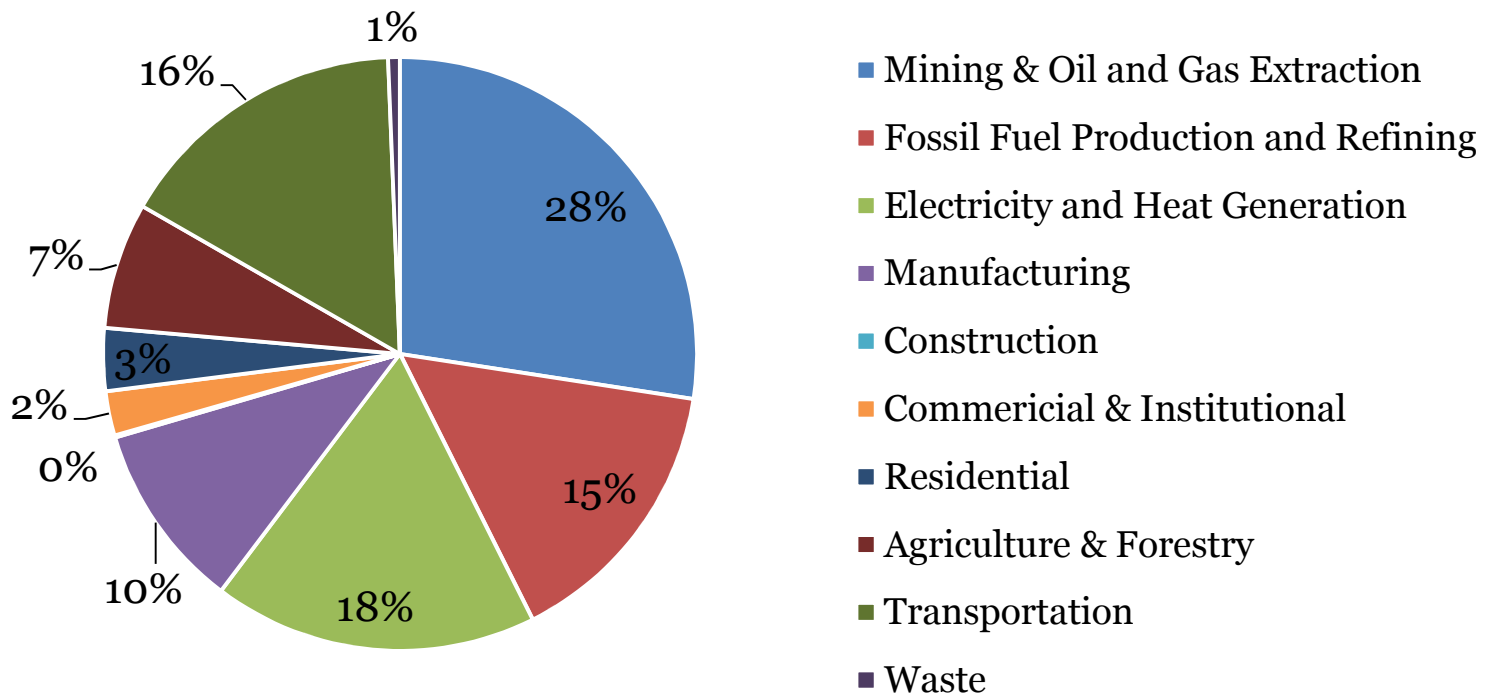
	2007	2008	2009	2010	2011	2012
Emissions saved at facility	1.25	1.10	0.30	0.02	1.09	1.66
Offsets submitted	0.91	3.00	3.94	3.86	5.32	2.63
Co-generation	1.28	2.58	2.66	2.55	2.53	3.25
<b>Total reduction</b>	<b>3.44</b>	<b>6.68</b>	<b>6.90</b>	<b>6.43</b>	<b>8.94</b>	<b>7.54</b>
<b>Total emissions</b>	<b>244</b>	<b>238</b>	<b>233</b>	<b>241</b>	<b>244</b>	<b>249</b>

# SGER Coverage

Alberta's Emissions by Facility Size



# 2012 Emissions by Sector



# SGER Coverage by Sector

Percent of Emissions by Sector from Facilities with Emissions Above 100K tonnes

	2007	2008	2009	2010	2011	2012
Mining & Oil and Gas Extraction	70%	71%	81%	85%	85%	86%
Fossil Fuel Production and Refining	17%	18%	18%	20%	21%	18%
Electricity and Heat Generation	96%	93%	99%	99%	95%	98%
Manufacturing	49%	51%	39%	40%	40%	41%
Construction	0%	0%	0%	0%	0%	0%
Commercial & Institutional	0%	0%	3%	3%	4%	4%
Residential	0%	0%	0%	0%	0%	0%
Agriculture & Forestry	0%	0%	0%	0%	0%	0%
Transportation	10%	8%	8%	7%	7%	8%
Waste	0%	0%	0%	0%	0%	0%