Emissions in Vital Communities Firms: A Preliminary Analysis

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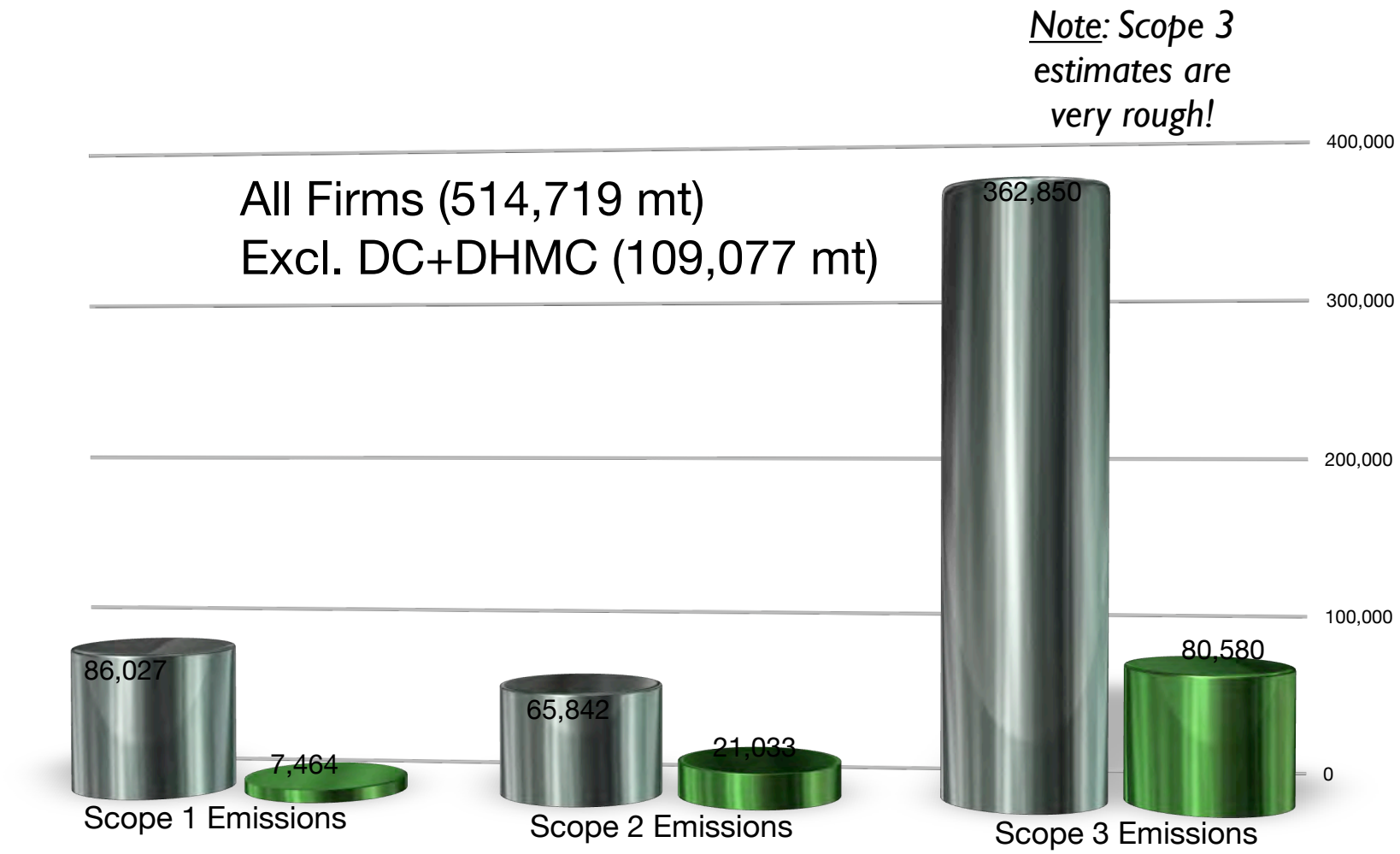
Data

Metrics tons of emissions

	Scope 1	Scope 2	Scope 3	# Employees	Scope 1 @$20/t	Scope 2 @$20/t	Scope 3 @$20/t	Scopes 1+2	Scopes 1+2+3	EEI* Scope 1+2
Beds 1	56,563	22,048	136,068	4,000	$ 1,131,254	$ 440,965	$ 2,721,350	$ 1,572,219	$ 4,293,569	19.65
Beds 2	22,000	22,761	146,203	5,500	$ 440,000	$ 455,220	$ 2,924,060	$ 895,220	$ 3,819,280	8.14
Beds 3	652	2,205	5,749	169	$ 13,030	$ 44,104	$ 114,978	$ 57,134	$ 172,112	16.90
Manufacturing 1	278	1,060	4,252	125	$ 5,560	$ 21,200	$ 85,040	$ 26,760	$ 111,800	10.70
Manufacturing 2	2,442	51	2,994		$ 48,830	$ 1,018	$ 59,870	$ 49,848	$ 109,718	
Manufacturing 3	734	4,559	29,187	858	$ 14,684	$ 91,174	$ 583,730	$ 105,858	$ 689,588	6.17
Manufacturing 4	114	307	4,762	140	$ 2,282	$ 6,136	$ 95,248	$ 8,418	$ 103,666	3.01
Manufacturing 5	1,600	3,226	1,627	300	$ 32,010	$ 64,526	$ 32,538	$ 96,536	$ 129,073	16.09
Manufacturing 6	1,200	8,217	17,008	500	$ 23,990	$ 164,334	$ 340,168	$ 188,324	$ 528,492	18.83
Services 1	149	603	6,293	185	$ 2,988	$ 12,058	$ 125,862	$ 15,046	$ 140,908	4.07
Services 2	84	194	3,402	100	$ 1,676	$ 3,870	$ 68,034	$ 5,546	$ 73,580	2.77
Services 3	135	128	1,021	30	$ 2,694	$ 2,556	$ 20,410	$ 5,250	$ 25,660	8.75
Services 4	15	47	1,633	48	$ 304	$ 932	$ 32,656	$ 1,236	$ 33,892	1.29
Services 5	62	438	2,653	78	$ 1,230	$ 8,752	$ 53,066	$ 9,982	$ 63,048	6.40
Total	**86,027**	**65,842**	**362,850**	**12,033**	**$ 1,720,532**	**$ 1,316,845**	**$ 7,257,010**	**$ 3,037,376**	**$ 10,294,386**	**9.44**
%	***17%***	***13%***	***70%***							
Total excl. DC + DI	**7,464**	**21,033**	**80,580**	**2,533**	**$ 149,278**	**$ 420,660**	**$ 1,611,600**	**$ 569,938**	**$ 2,181,537**	**8.63**
%	***7%***	***19%***	***74%***							
Mean	6,144.8	4,703.0	25,917.9							
Median	464.8	831.5	4,507.2							

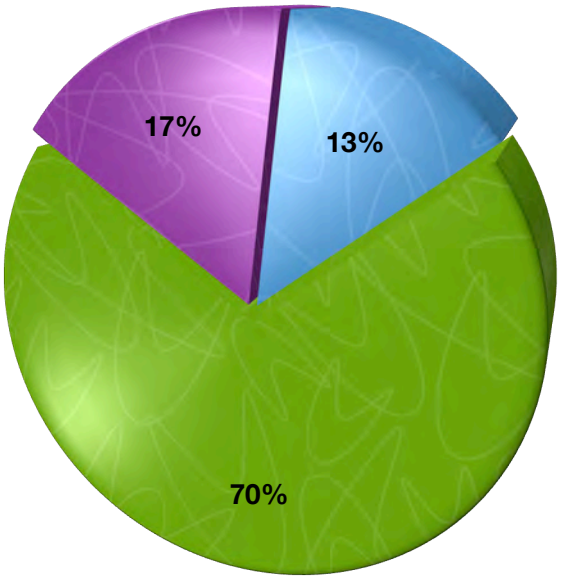
** Employee emissions intensity, metric tons of CO2 from Scope 1 and Scope 2 emissions.*

Quantity of Emissions by Scope (Metric Tons)



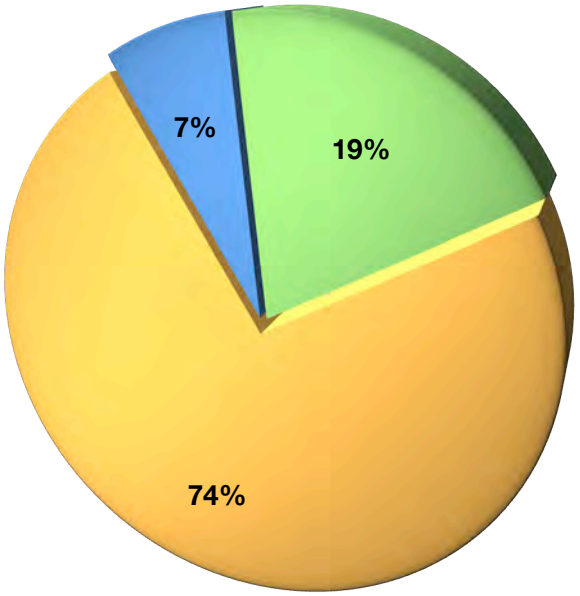
Percent Emissions by Scope: All Firms, and Firms excl. DC+DHMC

All Firms (~515K mt)



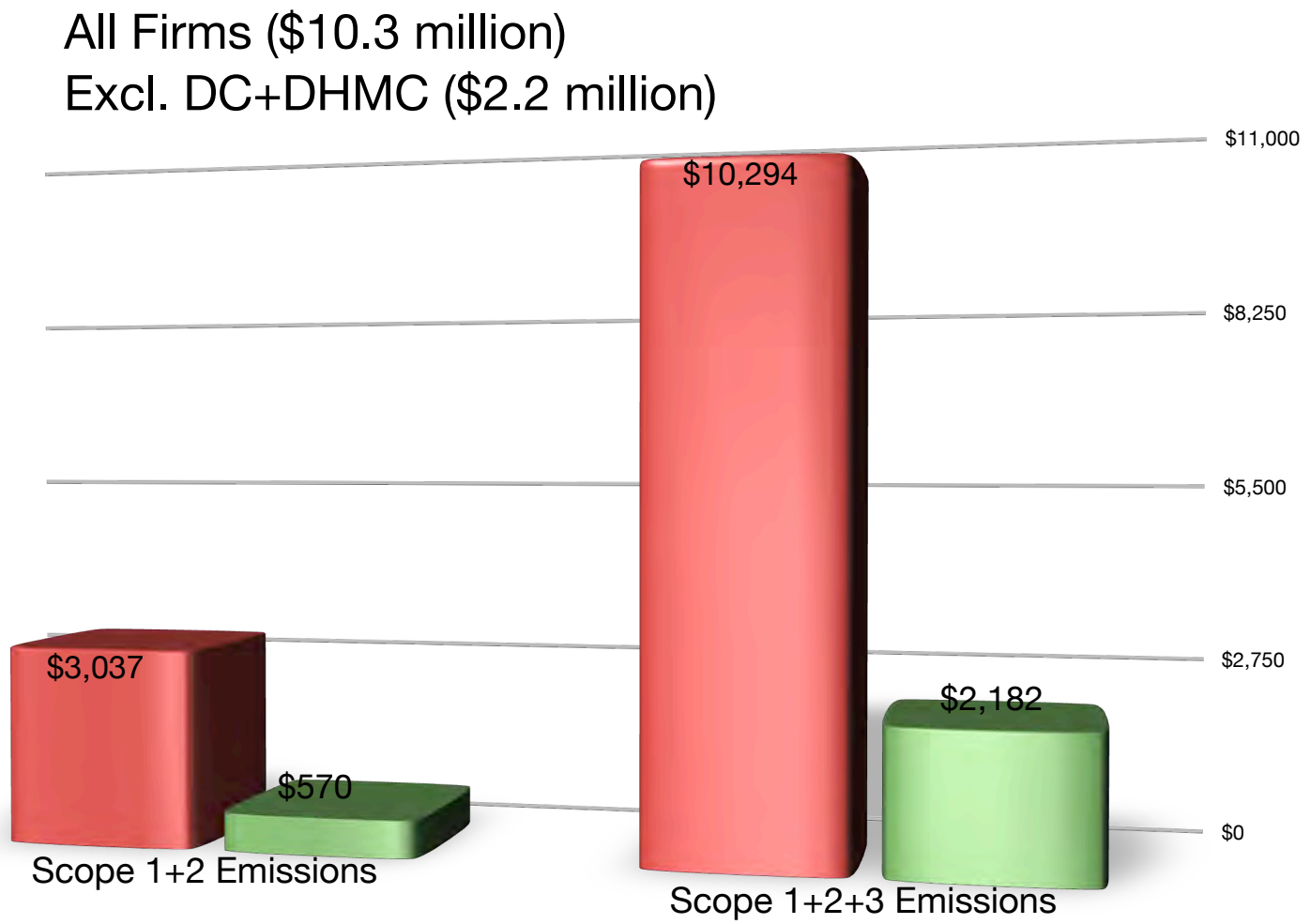
Scope 1 Emissions
Scope 2 Emissions
Scope 3 Emissions

Excl. DC+DHMC (~109K mt)



Scope 1 Emissions
Scope 2 Emissions
Scope 3 Emissions

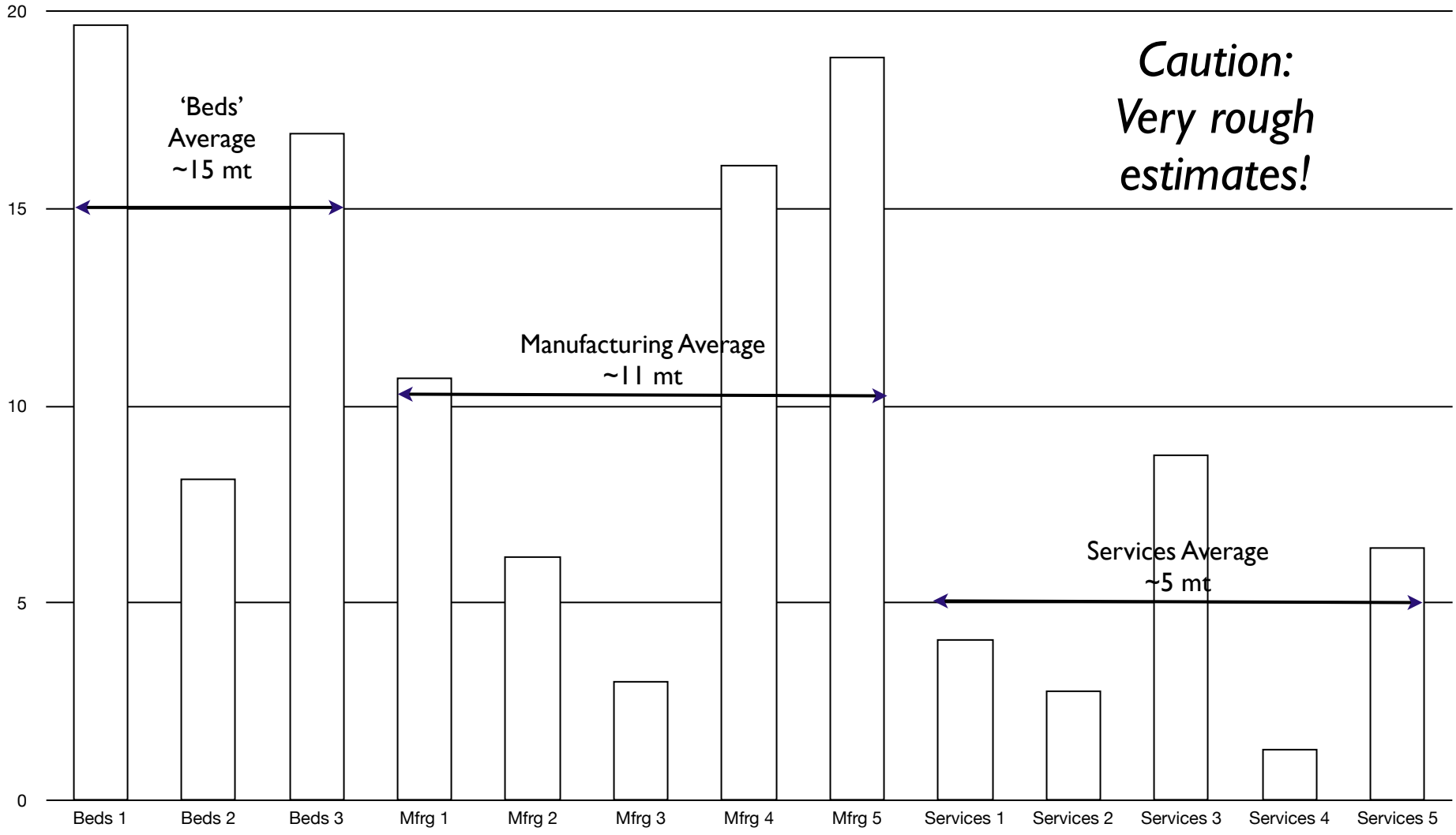
Annual Cost of Emissions in a Carbon-Priced World ($ '000)*



*Assuming $20/ton of CO_2

Employee Intensity of Scope 1+2 Emissions, by 'Beds' v. Manufacturing v. Services

(metric tons per employee)



Sundaram 2010

Opportunities/Challenges

- Renewable energy v. 'smarter' commuting
- If renewable energy:
  - Collective annual electricity use: ~155,000 MWh
  - What can $3 million a year buy you?
- If smarter commuting:
  - Collective efforts
  - Individual efforts
- Energy efficiency investments?
- Take on influencing public policy as a group?
  - RE mandates; feed-in tariffs; tax breaks; other?
  - Take a position on nuclear?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