

2014 MPI Manufacturing Study

Please answer all questions to the best of your ability and based on your manufacturing facility. **Study deadline is Nov. 19, 2014.**

		PLANT F	PROFILE		
1. Please indicate if th	is plant is part of a pub	lic or private con	npany: (check one)	1-1 Public	2 Private
2. In which state is the	e plant located?		114		
	of manufacturing operative operative operative operative operation operation operation operation operation oper		products at this plant? (choose it is a second seco	,	h or hybrid
4. What is the primary	product that this plant	produces (e.g., a	axles, software)?		4
5. How many years ha ₅⊣∏ Less than 5 year	rs it been since plant sta rs 5 - 1	art-up? (check on 0 years	,	₄∏ More th	an 20 years
6. Which criterion belo		olume and produ olume/Low mix	uct mix of your plant's oper ₃□ Low volume/High mix	-	-
7. What is the approxi (independently owne	mate annual revenue of difficult dif	f the plant's <i>corp</i> d for the entire cor	porate parent? mpany)\$		300
8. What is the approxi	mate annual revenue of		ant is a cost center, please re Past year (2013) \$ This year (2014) \$ d next year (2015) \$	- 	601
9. How much progress	s has the plant made to 2 Some	progress	vorld-class manufacturing s 		ully achieved
		HUMAN R	ESOURCES		
=	human-resource manag 2 Minor importance		ant's success over the next hat important 4 Impo		one) ghly important
11. Approximately how	w many employees (all s	staff) are at this p	plant location?		
		,)))	303
12. What percentage of 250-1 0%	of plant production worl $_2 \square 1 - 25\%$	kers are represer ₃ <u> </u> 26 – 50%	nted by a union(s)? (check o ₄∏ 51 – 75%	one) ₅∏ 76 – 99%	₀∏ 100%
	s annual labor turnover y and involuntary separati		recent year? ing level)		 % 10
14. What percentage of		s participate in e	mpowered or self-directed	work teams?	
15-1 0%	₂ _ 1 – 25%	₃ 26 – 50%	₄ <u></u> 51 – 75%	₅ 76 – 99%	₆ [] 100%
15. What are the avera 13-1 Less than 8 ho	-	nal training rece i 20 hours	ived by each plant employe ₃□ 21 – 40 hours		an 40 hours
16. What percentage of (check one)	of positions have docun	nented skill stand	dards supported by training	aligned with those	e standards?
(check one) ₀₀₃₋₁ 0%	₂ <u> </u>	₃_ 26 – 50%	₄ <u> </u>	₅_ 76 – 99%	₆ [] 100%

17. What are the approximate wages for pro	duction employees? (hourly rate without overtin		
			ge \$ 1
		Starting way	ge \$ 30
18. Which of the following human-resource	practices/programs are used at this plant? (ch	eck all that apply)	
311 Formal employee training program	312 Apprenticeship program 313		building practices
314 Leader/supervisor development		Paid medical b	
317 Paid sick and/or personal days 320 Annual review and raise program		Paid vacation d Profit or revenu	
₃₂₀ Bonus plan		None of these	e sharing plan
19. For the past year, how many: (total number of the past year)	per in plant) Job-related iniu	ries and illnesse	S 37
	Job-related injuries and illnesses resulting		
	OPERATIONS		
20. Please indicate which of the following in	nprovement methodologies are followed at the	plant: (check all	that apply)
	an Manufacturing 328 Theory of Cons		Six Sigma
330 Total Quality Management 331 Toy	rota Production System 332 Other methodol	ogy(ies) ₃₃₃∏ I	No methodology
21. Please describe the depth and breadth	of adoption of your chosen methodology(ies)?	(check one)	
₀₀₀₁_ None ₂_ Minimal	₃ Moderate ₄ Exte		5 Complete
	to your plant's success over the next five year		
425-1 Not important 2 Minor importance	e 3 Somewhat important 4 Impor	tant ₅_ I	Highly important
23. What percentage of your workforce is fu	Illy engaged in your improvement methodolog	y(ies)?	
24 Which of these programs and/or prostic	concernent this plant? (chook all that apply)		
24. Which of these programs and/or practic		Quality certification	
138 Continuous-improvement program		Strategy/policy dep	
421 Waste elimination (i.e., seven wastes)	339 Value-stream mapping 340 k	aizen events/blitz	
172 PDCA problem-solving	144 None of these		
25. Please estimate the following operation	production measures for your plant:		
Ν	leasures	Current Year	3 Years Ago
	t production to completion of primary product)	hrs 49	hrs 174
b. On-time delivery rate (% of goods delivery rate)		% 53	% 148
 c. Perfect delivery rate (% of goods on tir to customer specifications) 	ne to customer-requested date, perfect quality, an	d % 372	% 373
d. Finished-product first-pass quality yi	eld (% of product that passes final inspection)	% 46	% 147
e. Scrap and rework (as % of plant sales)		% 176	% 177
f. Warranty costs (as % of plant sales)		% 178	% 179
	blume) changed in the past 12 months? (check	-	
	creased 11 - 20% 3☐ Decreased 1 - 10% reased 11 - 20% 7☐ Increased more than 2		yed the same
	reased in - 20% 7 Increased more than 2	0 /0	
27. What are the plant's costs as a percenta	age of costs of goods sold (COGS)? (indicate %	for each categor	()

a. Labor	% 41
b. Overhead	% 42
c. Material	% 43
Total COGS =	100%

28. What is the plant's cost of goods sold as a percent of plant revenue? (annual COGS ÷ annual revenue) ____ % 44

29. V	hat are the approximate sales	per employee for	the most recent fig	scal year?
(ir	nclude all employees, not just dire	ect labor)		

\$__

30. How have	sales per employee cl	hanged in the	past year?	(check one)				
	eased more than 10% ased 1 - 5%	₂ Decreas ₀ Increase			ecreased hcreased n	1 - 5% nore than 10		yed the same
31. How have	per-unit manufacturin	ng costs, exclu	uding purch	ased materia	ls, chang	ed in the las	st 3 years?	(check one)
	ased more than 20% sed 1 - 10%		ed 11 - 20% ed 11 - 20%		eased 1 - eased more	10% e than 20%	₄ <u></u> Sta	yed the same
32. Which of t	he following practices	s are used to r	nanage inve	entory? (chec	k all that a	apply)		
183 Quick e	32. Which of the following practices are used to manage inventory? (check all that apply) 1800 One-piece flow techniques 1810 Pull systems with kanban signals 1830 Quick equipment changeovers 1840 RFID and computerized inventory tracking 1860 Just-in-time supplier deliveries 1870 Vendor-managed or -owned inventories							
	he plant's inventory tu It has no inventory for a						6)	
a. Raw ma	aterial (annual COGS ÷	- average value	e of raw mate	erial on hand)			tu	rns per year 55
b. Work-in	n-process material (an	nual COGS ÷	average valu	ie of WIP on h	nand)		tu	rns per year 56
c. Finishe	d goods (annual COG	S ÷ average va	alue of finishe	ed goods on h	and)		tu	rns per year ₅7
d. Total in	ventory (annual COGS	S ÷ average va	lue of total ir	ventory on ha	and)		tu	rns per year 58
34. Approxima	ately what percentage	of the plant's	total invent	tory is obsole	ete?			% ₃₄₁
	he total inventory turn	-		•	•	,		
	ased more than 20% used 1 - 10%		ed 11 - 20% d 11 - 20%		ecreased	1 - 10% nore than 20		yed the same
			SUPP	LY CHAIN				
427-1 Not in		portance	to your plan ₃∏ Somev	t's success c what importar	nt ₄_] Important	5	Highly important
427-1 Not in		portance	to your plan ₃∏ Somev	t's success c what importar	nt ₄_	Important	s⊡ l	Highly important each column)
427-1 Not in	hportant 2 Minor im	portance cribes your re	to your plan ₃∏ Some telationship v	t's success c what importar	nt ₄_	Important tomers? (ch	s⊡ eck one for o ppliers	Highly important each column) Customers
427-1 Not in	hportant ₂ Minor im he following best des Buy and sell (e.g., co	portance cribes your re	to your plan ₃ Some elationship v focus)	t's success of what importan vith suppliers	nt ₄_	Important tomers? (ch	eck one for o	Highly important each column) Customers
427-1 Not in	hportant ₂ Minor im he following best desc Buy and sell (e.g., co Certification (e.g., br	portance cribes your re ost and quality road qualification	to your plan	t's success of what importan vith suppliers	nt ₄_	Important tomers? (ch	eck one for o ppliers	Highly important each column) Customers 375-1 2
427-1 Not in	hportant ₂ Minor im he following best des Buy and sell (e.g., co	portance cribes your re ost and quality road qualification naring product	to your plan	t's success of what importan vith suppliers ned) practices)	nt ₄[Important tomers? (ch Su	eck one for o	Highly important each column) Customers
427-₁ Not im	he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh	portance cribes your re ost and quality road qualification naring product aring resource	to your plan a Some elationship v focus) ons establish ideas, best p s, intellectua	t's success of what importan with suppliers led) practices) I property, cos	tt s and cust	Important tomers? (ch Su	s	Highly important each column) Customers 375-1 2 3 3 4
427-1 Not im 37. Which of t 38. Which of t ₀₀₀[Quality ₀₀₀[Adhere	hportant a Minor im he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh he following criteria a	portance cribes your re ost and quality road qualification naring product aring resource re assessed a cose Delive end Service	to your plan a Some elationship v focus) ons establish ideas, best p s, intellectua	t's success of what important with suppliers ned) practices) I property, cost nted for mate ule) eness	nt 4 s and cust st savings) erial/comp	Important tomers? (ch Su	eck one for o ppliers 	Highly important each column) Customers 375-1 2 3 3 4
427-1 Not im 37. Which of t 38. Which of t 605 Quality 606 Adhere 613 Enviror	hportant a Minor im he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh he following criteria a √reliability ence to specifications	portance cribes your re ost and quality road qualification naring product aring resource re assessed a cond Delive er anit basis) of	to your plan a Some elationship v focus) ons establish ideas, best p s, intellectua and docume ery (to schedu ce/responsive a of supplier	t's success of what important with suppliers red) practices) I property, cost nted for mate ule) eness 's suppliers	nt 4 s and cust st savings) erial/comp	Important tomers? (ch Su	eck one for o ppliers 	Highly important each column) Customers 375-1 2 3 3 4 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 3 4 2 3 3 4 2 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3
427-1 Not im 37. Which of t 38. Which of t 605 Quality 606 Adhere 613 Enviror	he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh he following criteria a Vreliability ence to specifications mental performance	portance cribes your re ost and quality road qualification naring product aring resource re assessed a 606 Delive 610 Servic 614 Criteri	to your plan a Some elationship v focus) ons establish ideas, best p s, intellectua and docume ery (to schedu ce/responsive a of supplier	t's success of what important with suppliers red) practices) I property, cost nted for mate ule) eness 's suppliers	nt 4 s and cust st savings) erial/comp	Important tomers? (ch Su	eck one for o ppliers 	Highly important each column) Customers 375-1 2 3 3 4 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 3 4 2 3 3 4 2 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3
427-1 Not im 37. Which of the 38. Which of the 38. Which of the 38. Which of the Good Quality Good Adhered Good Environ 39. How have a. Price for	he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh he following criteria a √reliability ence to specifications mental performance the following (on a pe	portance cribes your re- post and qualify road qualification naring product aring resource re assessed a cose Delive cito Service cito Criteri er unit basis) c Decreased more than	to your plan a Some elationship v focus) ons establish ideas, best p s, intellectua and docume ery (to schedu ce/responsive a of supplier changed in t Decreased 6-10% a	t's success of what important with suppliers red) practices) I property, cost nted for mate ule) eness 's suppliers he past 12 m Decreased 1-5%	at savings) st savings) erial/comp erial/comp enonths? (c No change	Important tomers? (ch Su	eck one for o ppliers 	Highly important each column) Customers 375-1 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 4 3 3 3 4 3 3 3 4 3 3 3 4 3 3 3 4 3 3 3 5 4 3 3 3 5 4 3 3 3 5 4 3 3 3 5 4 3 3 5 5 4 3 3 5 5 4 3 3 5 5 4 3 3 5 5 4 3 3 5 5 4 3 3 5 5 4 3 3 5 5 4 3 3 5 5 4 3 3 5 5 4 3 3 5 5 4 3 5 5 4 5 5 5 5
427-1 Not im 37. Which of the 38. Which of the 605 Quality 606 Adhere 613 Environ 39. How have a. Price the b. Comp	he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh he following criteria a dreliability ence to specifications mental performance the following (on a performance the following (on a performance)	portance cribes your re- post and quality road qualification haring product aring resource re assessed a cost of Delive cost of Delive	to your plan a Some elationship v focus) ons establish ideas, best p s, intellectua and docume ery (to schedu ce/responsive a of supplier changed in t Decreased 6-10% 2 2	t's success of what important with suppliers led) practices) I property, cost nted for mate ule) eness 's suppliers he past 12 m Decreased 1-5%	at savings) erial/comp erial/comp enths? (c No change	Important tomers? (ch Su Su Sonent supp Productiv Defendence Defen	eck one for o ppliers 	Highly important each column) Customers 375-1 2 3 4 4 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3
427-1 Not im 37. Which of the 38. Which of the analytic of the second	he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh Partnership (e.g., sh he following criteria a t/reliability ence to specifications mental performance the following (on a performance the following (on a performance) for your products onent/material costs byee wages	portance cribes your re- post and quality road qualification haring product aring resource re assessed a 606 Delive 610 Servic 614 Criteri er unit basis) c Decreased more than 10% 154-1 342-1 343-1	to your plan 3 Some elationship v focus) ons establish ideas, best p s, intellectua and docume ery (to schedu ce/responsive a of supplier changed in t Decreased 6-10% 2 2	t's success of what important with suppliers red) practices) I property, cost nted for mate ule) eness 's suppliers he past 12 m Decreased 1-5%	at savings) erial/comp fonths? (c No change	Important tomers? (ch Su	eck one for o ppliers 	Highly important each column) Customers 375-1 2 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 3 4 3 3 3 4 3
427-1 Not im 37. Which of the 38. Which of the 38. Which of the 38. Which of the 39. How have a. Price for b. Comp c. Employ d. Employ	Apportant 2 Minor im he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh Partnership (e.g., sh he following criteria a //reliability ence to specifications mental performance the following (on a performance the following (on a performance) for your products onent/material costs byee wages byee benefits	portance cribes your re- post and quality road qualification haring product aring resource re assessed a 606 Delive 610 Servic 614 Criteri er unit basis) c Decreased more than 10% 154-1 343-1	to your plan a Some elationship v focus) ons establish ideas, best p s, intellectua and docume ery (to schedu ce/responsive a of supplier changed in t Decreased 6-10% 2 2 2 2	t's success of what important with suppliers red) practices) I property, cos nted for mate ule) eness 's suppliers he past 12 m Decreased 1-5%	t and cust s and cust st savings) erial/comp erial/comp enonths? (c No change	Important tomers? (ch Su	eck one for of ppliers pliers and a sector of the sector o	Highly important each column) Customers 375-1 2 3 3 4 3 4 3 4 3 3 4 3 4 3 4 3 4 3 4 3
427-1 Not im 37. Which of the 38. Which of the 38. Which of the 38. Which of the 39. How have a. Price for b. Comp c. Employ d. Employ	he following best desc Buy and sell (e.g., co Certification (e.g., br Cooperation (e.g., sh Partnership (e.g., sh Partnership (e.g., sh he following criteria a //reliability ence to specifications mental performance the following (on a performance the following (on a performance the following (on a performance the following (on a performance) the following (on a performance)	portance cribes your re- post and quality road qualification haring product aring resource re assessed a 606 Delive 610 Servic 614 Criteri er unit basis) c Decreased more than 10% 154-1 342-1 343-1	to your plan 3 Some elationship v focus) ons establish ideas, best p s, intellectua and docume ery (to schedu ce/responsive a of supplier changed in t Decreased 6-10% 2 2	t's success of what important with suppliers red) practices) I property, cost nted for mate ule) eness 's suppliers he past 12 m Decreased 1-5%	at savings) erial/comp fonths? (c No change	Important tomers? (ch Su	eck one for o ppliers 	Highly important each column) Customers 375-1 2 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 3 3 4 3 3 3 4 3

40. Please estimate the following customer and supplier measures for your plant:

Measures	Current Year	3 Years Ago
a. Customer reject rates (parts per million)	ppm ₂₀₈	ppm ₂₀₉
b. Customer retention rate (% customers retained from previous year)	% 210	<mark>%</mark> 211
c. Overseas sales (as % of total dollar volume)	% 212	<mark>%</mark> 213
 d. Imported material/components (% of dollar volume purchased outside home country) 	% 153	% ₂₁₄

41. Which of the following supply-chain programs and/or practices are in place? (check all that apply)

389 Certification of major suppliers

- ³⁹¹ Collaborative design with suppliers
- ³⁹³ Collaborative design with customers

⁷⁰ Supplier-management program 71 Customer-satisfaction surveys 72 Access to customer forecasts

³⁹⁰ Sharing forecasts with suppliers ³⁹² Kitting/preassembly for customers 394 None of these

42. Please indicate where your company's production volume (by percentage) is located.

	Current year	3 Years Ago
a. This plant	% 701	% 706
b. Other corporate plant(s) in United States	% 702	% 707
c. External contractor plant(s) in United States	% 703	% 708
d. Corporate plant(s) outside of the United States	% 704	% 709
e. External contractor plant(s) outside of the United States	% 706	% 710
Total	= 100%	100%

CAPACITY / EQUIPMENT / IT

43. Please estimate the following capacity/equipment measures for your plant:

Measures	Current Year	3 Years Ago
a. Production volume (as % of designed plant capacity)	% 78	% 217
b. Machine availability (as % of scheduled uptime)	% 79	% 218
 c. Overall equipment effectiveness (% machine availability X % quality yield X % of optimal rate that equipment operates) 	% 80	% 156
d. Percentage of unplanned maintenance as a percentage of total maintenance (% based on annual maintenance expenses)	% 619	% 620
e. Return on invested capital (net operating profit after taxes ÷ by capital invested)	% 63	% 151

44. Please rate your plant's capability to monitor and measure the following: (check one in each row)

	1= No capability	2	3	4	5= Real-time capability
Process-specific quality	560-1	2	3	4	5
Process-specific productivity (i.e., value vs. waste)	561-1	2	3	4	5
Process-specific pace or speed	562-1	2	3	4	5
Process-specific safety	563-1	2	3	4	5
Process-specific sustainability performance	564-1	2	3	4	5
Location-specific inventory levels	565-1	2	3	4	5
Individual equipment or machine performance	566-1	2	3	4	5
In-plant material-handling performance	567-1	2	3	4	5
External logistics/distribution performance	568-1	2	3	4	5
Supplier performance	569-1	2	3	4	5

45. Has your plant adopted an Internet of Things (IoT) strategy? (check one)

711-1 Yes

² Planning an IoT strategy

₃ No

₄ Never heard of an IoT strategy

45b. If "yes," has the IoT strategy improved plant performances for any of the following? (check all that apply)

712 Safety

714 Quality

716 Production costs

718 Energy usage

713 Machine uptime

715 Machine longevity

717 Other

719 No improvements

- 46. Approximately what percentage of your plant's equipment is *intelligent* (i.e., incorporates technologies that enable machine-to-machine or machine-to-IT system communications)?
- 47. To what extent is your plant able to track supplies and products in real time at the following? (check one in each row)

		No real-time tracking	Limited real-time tracking	Adequate real-time tracking	Extensive real- time tracking	
	a. Original source of materials or ingredients or furthest tier of suppliers	721-1	2	3	4	
	b. At mid-tier suppliers	722-1	2	3	4	
	c. At immediate suppliers	723-1	2	3	4	
	d. Within the plant	724-1	2	3	4	
	e. En route to customers	725-1	2	3	4	
	f. At customers	726-1	2	3	4	
48.	Why does your plant use real-time tracking of supp	pliers and produc	ts? (check all that	at apply)		
		Required by regula Other reason	ations	731 Required 732 No tracki	l by customer ng	
49.	For which functions are <i>effective</i> information techr (check all that apply)	nology (IT) applic	ations and/or sy	stems <i>currently in</i>	place?	
:	Trd Enterprise management 571 Planning/sched Trd Production/operations 575 Logistics/distrib Trg Supply-chain management 579 Asset manager	oution 576 Hun	sign/development nan resources stomer service/su	577 Accoun		
50.	For which functions are applications and/or systen	ns <i>likely to be pu</i>	rchased in the n	ext 12 months? (cl	heck all that apply)	
	Barber prise management 583 Planning/sched Production/operations 587 Logistics/distrib 00 Supply-chain management 581 Planning/sched	oution 588 Hun	sign/development nan resources stomer service/su	589 Accoun		
51. Approximately what percentage of IT systems and applications are cloud computing (SaaS)?						
52.	Which of the following functions use <i>cloud-based</i>	systems or appli	cations? (check a	all that apply)		
;	33 Enterprise management 736 Planning/sched 34 Production/operations 737 Logistics/distrib 33 Supply-chain management 738 Asset manager	oution 740 Hun	sign/development nan resources stomer service/su	743 Accoun		

53. What are the following investments/expenses as a <u>percentage of plant sales</u> for the current year, and how is that percentage likely to change next year?

	Current %
a. Capital-equipment spending	% 159
b. Information technology spending	% 160
c. Process improvement initiatives	% 395
d. Employee costs (all wages, benefits, etc.)	% 396
e. Utilities/energy	% 397
f. Material and components	% 398

Expected change next year					
Increase	Same	Decrease			
401-1	2	3			
402-1	2	3			
403-1	2	3			
404-1	2	3			
405-1	2	3			
406-1	2	3			

54. How did the following affect your company's profitability in the most recent year? (check one in each row)

	Major increase	Some increase	No change	Some decrease	Major decrease	Not applicable
a. Use of improvement methodology(ies)	334-1	2	3	4	5	6
b. Application of new capital equipment	347-1	2	3	4	5	6
c. Implementation of new IT	348-1	2	3	4	5	6
d. Development of new products/services	419-1	2	3	4	5	6
e. Investments in the workforce	420-1	2	3	4	5	6

_% 720

Carbon footprints (% of plant products with documented carbon footprint) Green components and materials (% of purchased components or materials that are recycled/regrind/etc.)

58. By approximately what percentage has energy per unit of product output been reduced in the past year? (indicate an increase in energy with + symbol) % 450

Thank you for completing the MPI Manufacturing Study -

To receive your free Executive Summary of this year's study findings and free online access to customizable benchmarks from four years of the study data, go to www.MPIBenchmarks.com and provide the necessary contact information.

If you would like to send a hard copy of your questionnaire, please mail to MPI Manufacturing Study, P.O. Box 4330, Dublin, OH 43016, or fax the questionnaire to 614-389-3816.

GREEN/SUSTAINABILITY

55. How important is green/sustainability to your plant's success over the next five years? (check one)

Minor importance ³ Somewhat important 439-1 Not important Important

56. Which of these Green programs and/or practices occur at this plant? (check all that apply)

57. Please estimate the following green/sustainability measures for your plant:

Green products (% of plant products that are recyclable/reusable)

Measures

Energy management Formal Green corporate program

а.

b.

c.

442 Recycling/reuse programs 443 Carbon footprinting

444 Use of renewable energies

% 387

% 446

% 447

₅ Highly important

3 Years Ago

% 388

% 448

% 44

445 None of these

Current Year