



AMERICAN COMPOSITES MANUFACTURERS ASSOCIATION

ACMA 3Q23 Pulse of the Industry Survey



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Summary of Key Findings

- Among total respondents, 65% report customer demand for the Infrastructure market has increased in 3Q23 vs. 2Q23. This is consistent among manufacturers and suppliers/distributors.
- Interestingly, in the Marine market, 55% of manufacturers report no change and 27% a decrease in customer demand vs. 25% of suppliers/distributors saying no change and 67% reporting a decrease this quarter vs. last quarter.
- Year over year a majority, 64%, of total respondents report customer demand for the Infrastructure market is increasing, while 52% indicate a decrease for the Marine market.
- The majority of total respondents report current product lead time is stable across all inputs, and that inventory for these product inputs are at the right amount.
- Hiring and training (90%) of workforce along with inflation (88%) top the list as extremely/very important topics of interest on the minds of total respondents.
 - 86% of total respondents also report supply chain disruptions continue to be extremely/very important.
 - Another 60% of total respondents believe regulation of styrene is an extremely/important issue.`



Customer Demand in Q3 2023 Compared with Q2 2023

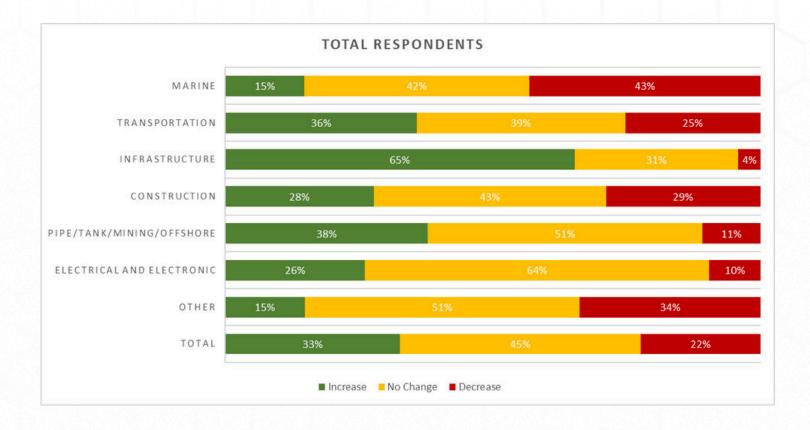


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Market	Increase	No Change	Decrease
Marine	15%	42%	43%
Transportation	36%	39%	25%
Infrastructure	65%	31%	4%
Construction	28%	43%	29%
Pipe/Tank/Mining/Offshore	38%	51%	11%
Electrical and Electronic	26%	64%	10%
Other	15%	51%	34%
Total	33%	45%	22%

Company Count
85
91
91
87
71
70
71
116

Manufacturer			
Market	Increase	No Change	Decrease
Marine	18%	55%	27%
Transportation	38%	42%	20%
Infrastructure	62%	31%	7%
Construction	35%	48%	17%
Pipe/Tank/Mining/Offshore	33%	46%	21%
Electrical and Electronic	33%	57%	10%
Other	21%	52%	26%
Total	35%	47%	18%

Supplier / Distributor			
Market	Increase	No Change	Decrease
Marine	8%	25%	67%
Transportation	28%	36%	36%
Infrastructure	67%	33%	0%
Construction	17%	34%	49%
Pipe/Tank/Mining/Offshore	44%	56%	0%
Electrical and Electronic	11%	79%	11%
Other	3%	52%	45%
Total	26%	44%	30%

Affiliate			
Market	Increase	No Change	Decrease
Marine	33%	33%	33%
Transportation	75%	25%	0%
Infrastructure	100%	0%	0%
Construction	33%	67%	0%
Pipe/Tank/Mining/Offshore	33%	67%	0%
Electrical and Electronic	67%	33%	0%
Other	33%	33%	33%
Total	57%	35%	9%

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	55	
Â	52	
	39	
i.	42	
	42	
1	73	

Company Count 49

Com	pany Cou	nt
	36	
	36	
	36	
	35	
	32	
	28	
	29	
	38	

COMPANY AND A CONTRACTOR OF A CONTRACT OF	
Company Count	
3	
4	
4	
3	
3	
3	
3	
5	
	_



Small: 1 - 10 Employees			
Market	Increase	No Change	Decrease
Marine	20%	60%	20%
Transportation	50%	33%	17%
Infrastructure	86%	14%	0%
Construction	20%	80%	0%
Pipe/Tank/Mining/Offshore	0%	100%	0%
Electrical and Electronic	40%	60%	0%
Other	25%	50%	25%
Total	38%	54%	8%

Con	npany Cou	nt
	5	
	6	
	7	
	5	
	5	
	5	
	4	
	8	

Market	Increase	No Change	Decrease
Marine	36%	43%	21%
Transportation	57%	21%	21%
Infrastructure	69%	25%	6%
Construction	56%	31%	13%
Pipe/Tank/Mining/Offshore	38%	54%	8%
Electrical and Electronic	25%	67%	8%
Other	25%	58%	17%
Total	45%	41%	13%

Com	pany Cour	nt
	14	
	14	
	16	
	16	
	13	
	12	
	12	
	22	

Large: 101+ Employees			
Market	Increase	No Change	Decrease
Marine	10%	41%	49%
Transportation	31%	43%	27%
Infrastructure	63%	33%	4%
Construction	22%	43%	35%
Pipe/Tank/Mining/Offshore	41%	46%	13%
Electrical and Electronic	25%	64%	11%
Other	12%	50%	38%
Total	29%	45%	25%

Comp	oany Count
	69
	75
	72
	69
	56
	56
	58
	86

Survey Question: What is the outlook for customer demand in North America in Q3 2023 compared to Q2 2023 for the following markets? Please only answer for markets for which you have knowledge.

*Darker shading represents the higher responses by market segment. Shading does not represent statistical significance.



Customer Demand in North America 2023 vs. 2022

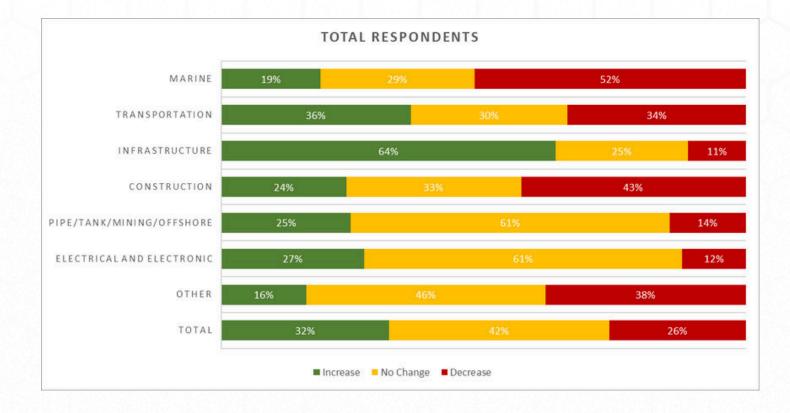


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Overall Market			
Market	Increase	No Change	Decrease
Marine	19%	29%	52%
Transportation	36%	30%	34%
Infrastructure	64%	25%	11%
Construction	24%	33%	43%
Pipe/Tank/Mining/Offshore	25%	61%	14%
Electrical and Electronic	27%	61%	12%
Other	16%	46%	38%
Total	32%	42%	26%

Co	mpany Coun	t
	82	
	93	
	87	
	81	
	66	
	63	
	65	
	116	

Manufacturer			
Market	Increase	No Change	Decrease
Marine	21%	38%	40%
Transportation	39%	30%	32%
Infrastructure	60%	26%	13%
Construction	28%	40%	32%
Pipe/Tank/Mining/Offshore	22%	53%	25%
Electrical and Electronic	34%	50%	16%
Other	21%	44%	36%
Total	33%	39%	28%

Supplier / Distributor			
Market	Increase	No Change	Decrease
Marine	14%	17%	69%
Transportation	28%	31%	42%
Infrastructure	65%	26%	9%
Construction	18%	24%	59%
Pipe/Tank/Mining/Offshore	27%	70%	3%
Electrical and Electronic	12%	80%	8%
Other	8%	50%	42%
Total	25%	40%	35%

Affiliate			
Market	Increase	No Change	Decrease
Marine	33%	33%	33%
Transportation	75%	25%	0%
Infrastructure	100%	0%	0%
Construction	33%	33%	33%
Pipe/Tank/Mining/Offshore	33%	67%	0%
Electrical and Electronic	67%	33%	0%
Other	33%	33%	33%
Total	57%	30%	13%

C	ompany Count	
	47	
	57	
	53	
	47	
	36	
	38	
	39	
	73	

Compa	any Count
	35
	36
	34
	34
	30
	25
	26
	38

Company Count
3
4
4
3
3
3
3
5



Small: 1 - 10 Employees		0	
Market	Increase	No Change	Decrease
Marine	40%	40%	20%
Transportation	67%	17%	17%
Infrastructure	71%	29%	0%
Construction	20%	60%	20%
Pipe/Tank/Mining/Offshore	0%	100%	0%
Electrical and Electronic	40%	60%	0%
Other	25%	50%	25%
Total	41%	49%	11%

Com	pany Co	unt
	5	
	6	
	7	
	5	
	5	
	5	
	4	
	8	

Medium: 11 - 100 Employees				
Market	Increase	No Change	Decrease	
Marine	46%	31%	23%	
Transportation	50%	25%	25%	
Infrastructure	67%	20%	13%	
Construction	46%	38%	15%	
Pipe/Tank/Mining/Offshore	20%	60%	20%	
Electrical and Electronic	30%	60%	10%	
Other	30%	50%	20%	
Total	44%	38%	18%	

Com	pany Cou	Int
	13	
	16	
	15	
	13	
	10	
	10	
	10	
	22	

Large: 101+ Employees				
Market	Increase	No Change	Decrease	
Marine	12%	28%	60%	
Transportation	31%	32%	37%	
Infrastructure	62%	26%	12%	
Construction	20%	30%	50%	
Pipe/Tank/Mining/Offshore	28%	57%	15%	
Electrical and Electronic	25%	61%	14%	
Other	13%	44%	43%	
Total	28%	38%	34%	

Com	pany Cou	nt
	67	
	75	
	69	
	66	
	54	
	51	
	54	
	86	

Survey Question: What is the outlook for customer demand in North America in 2023 compared to 2022 in the following markets? Please only answer for markets for which you have knowledge.

*Darker shading represents the higher responses by market segment. Shading does not represent statistical significance.



Current Product Lead Time

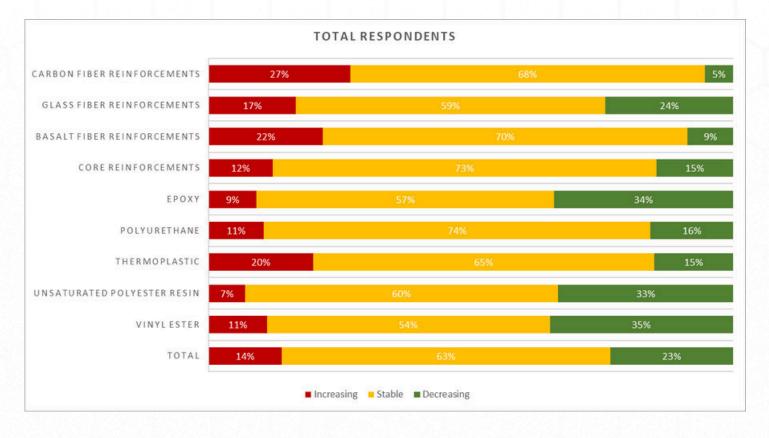


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ACMA 3Q23 PULSE OF THE INDUSTRY SURVEY



Overall				
Product	Increasing	Stable	Decreasing	
Carbon Fiber Reinforcements	27%	68%	5%	
Glass Fiber Reinforcements	17%	59%	24%	
Basalt Fiber Reinforcements	22%	70%	9%	
Core Reinforcements	12%	73%	15%	
Ероху	9%	57%	34%	
Polyurethane	11%	74%	16%	
Thermoplastic	20%	65%	15%	
Unsaturated Polyester Resin	7%	60%	33%	
Vinyl Ester	11%	54%	35%	
Total	14%	63%	23%	

Company Count	
35	
76	
21	
39	
42	
36	
38	
70	
61	
99	

Product	Increasing	Stable	Decreasing
Carbon Fiber Reinforcements	29%	71%	0%
Glass Fiber Reinforcements	16%	63%	21%
Basalt Fiber Reinforcements	27%	64%	9%
Core Reinforcements	19%	71%	10%
Ероху	13%	65%	22%
Polyurethane	8%	83%	8%
Thermoplastic	22%	65%	13%
Unsaturated Polyester Resin	10%	71%	19%
Vinyl Ester	15%	65%	21%
Total	16%	68%	16%

Product	Increasing	Stable	Decreasing
Carbon Fiber Reinforcements	21%	64%	14%
Glass Fiber Reinforcements	15%	50%	35%
Basalt Fiber Reinforcements	10%	80%	10%
Core Reinforcements	0%	78%	22%
Epoxy	0%	47%	53%
Polyurethane	8%	58%	33%
Thermoplastic	13%	67%	20%
Unsaturated Polyester Resin	0%	43%	57%
Vinyl Ester	4%	41%	56%
Total	7%	55%	38%

Affiliate			
Product	Increasing	Stable	Decreasing
Carbon Fiber Reinforcements	50%	50%	0%
Glass Fiber Reinforcements	50%	50%	0%
Basalt Fiber Reinforcements	50%	50%	0%
Core Reinforcements	50%	50%	0%
Ероху	50%	50%	0%
Polyurethane	50%	50%	0%
Thermoplastic	50%	50%	0%
Unsaturated Polyester Resin	50%	50%	0%
Vinyl Ester	50%	50%	0%
Total	50%	50%	0%

Com	pany Cour	nt
	21	
	56	
	11	
	21	
	23	
	24	
	23	
	42	
	34	
	65	

Cor	npany Cour	ıt
	14	
	20	
	10	
	18	
	19	
	12	
	15	
	28	
	27	
	32	

Company Count
2
2
2
2
2
2
2
2
2
2



Product	Increasing	Stable	Decreasing
Carbon Fiber Reinforcements	33%	67%	0%
Glass Fiber Reinforcements	25%	75%	0%
Basalt Fiber Reinforcements	0%	100%	0%
Core Reinforcements	0%	100%	0%
Ероху	0%	100%	0%
Polyurethane	0%	100%	0%
Thermoplastic	0%	100%	0%
Unsaturated Polyester Resin	0%	100%	0%
Vinyl Ester	0%	100%	0%
Total	9%	91%	0%

Com	npany Co	ount
	3	
	4	
	2	
	2	
	2	
	2	
	3	
	3	
	2	
	4	

Product	Increasing	Stable	Decreasing
Carbon Fiber Reinforcements	60%	40%	0%
Glass Fiber Reinforcements	8%	62%	31%
Basalt Fiber Reinforcements	0%	75%	25%
Core Reinforcements	10%	80%	10%
Epoxy	0%	67%	33%
Polyurethane	14%	57%	29%
Thermoplastic	25%	63%	13%
Unsaturated Polyester Resin	8%	58%	33%
Vinyl Ester	11%	56%	33%
Total	14%	62%	24%

Cor	npany Cou	Int
	5	
	13	
	4	
	10	
	6	
	7	
	8	
	12	
	9	
	17	

Product	Increasing	Stable	Decreasing
Carbon Fiber Reinforcements	21%	72%	7%
Glass Fiber Reinforcements	18%	57%	25%
Basalt Fiber Reinforcements	29%	65%	6%
Core Reinforcements	14%	69%	17%
Epoxy	11%	53%	36%
Polyurethane	10%	76%	14%
Thermoplastic	21%	62%	17%
Unsaturated Polyester Resin	7%	58%	35%
Vinyl Ester	12%	52%	37%
Total	14%	61%	25%

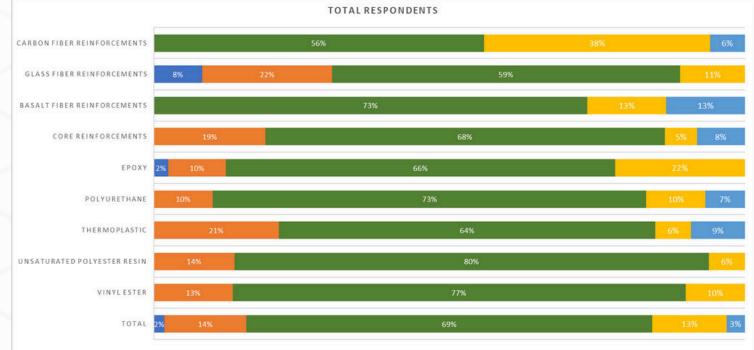
Company Coun	t
29	
61	
17	
29	
36	
29	
29	
57	
52	
78	

Survey Question: What is the current lead time for the following inputs? Please only answer for products for which you have knowledge.

*Darker shading represents the higher responses by market segment. Shading does not represent statistical significance.



Current Inventory



Extremely High = 4 Right Amount (3) = 2 Extremely Low (1)

Table continued on next page



Overall							
Product	Extremely High	4	Right Amount (3)	2	Extremely Low (1		
Carbon Fiber Reinforcements	0%	0%	56%	38%	6%		
Glass Fiber Reinforcements	8%	22%	59%	11%	0%		
Basalt Fiber Reinforcements	0%	0%	73%	13%	13%		
Core Reinforcements	0%	19%	68%	5%	8%		
Ероху	2%	10%	66%	22%	0%		
Polyurethane	0%	10%	73%	10%	7%		
Thermoplastic	0%	21%	64%	6%	9%		
Unsaturated Polyester Resin	0%	14%	80%	6%	0%		
Vinyl Ester	0%	13%	77%	10%	0%		
Total	2%	14%	69%	13%	3%		

Manufacturer						
Product	Extremely High	4	Right Amount (3)	2	Extremely Low (1	
Carbon Fiber Reinforcements	0%	0%	62%	33%	5%	
Glass Fiber Reinforcements	2%	20%	64%	15%	0%	
Basalt Fiber Reinforcements	0%	0%	80%	10%	10%	
Core Reinforcements	0%	10%	71%	5%	14%	
Ероху	0%	8%	67%	25%	0%	
Polyurethane	0%	5%	85%	5%	5%	
Thermoplastic	0%	29%	52%	10%	10%	
Unsaturated Polyester Resin	0%	10%	80%	10%	0%	
Vinyl Ester	0%	9%	77%	14%	0%	
Total	0%	12%	70%	14%	3%	

Supplier / Distributor	Fortune and a Ulash	100	Distant Arrange (2)	2	Future at a Local d
Product	Extremely High	4	Right Amount (3)	2	Extremely Low (1
Carbon Fiber Reinforcements	0%	0%	46%	46%	8%
Glass Fiber Reinforcements	28%	28%	44%	0%	0%
Basalt Fiber Reinforcements	0%	0%	60%	20%	20%
Core Reinforcements	0%	31%	63%	6%	0%
Ероху	6%	12%	65%	18%	0%
Polyurethane	0%	20%	50%	20%	10%
Thermoplastic	0%	8%	83%	0%	8%
Unsaturated Polyester Resin	0%	19%	81%	0%	0%
Vinyl Ester	0%	20%	76%	4%	0%
Total	4%	18%	65%	10%	3%

Affiliate					
Product	Extremely High	4	Right Amount (3)	2	Extremely Low (1
Carbon Fiber Reinforcements	0%	0%	100%	0%	0%
Glass Fiber Reinforcements	0%	0%	67%	33%	0%
Basalt Fiber Reinforcements	0%	0%	50%	50%	0%
Core Reinforcements	0%	0%	100%	0%	0%
Ероху	0%	0%	100%	0%	0%
Polyurethane	0%	0%	100%	0%	0%
Thermoplastic	0%	0%	50%	50%	0%
Unsaturated Polyester Resin	0%	0%	100%	0%	0%
Vinyl Ester	0%	0%	100%	0%	0%
Total	0%	0%	86%	14%	0%

L	Company Count
Г	34
Γ	73
	15
	37
	41
1	30
Ē	33
	66
	60
	92

C	ompany Count
	21
	55
	10
	21
	24
	20
	21
	40
	35
	63

Company Count
13
18
5
16
17
10
12
26
25
29

Comp	any Count
	3
	3
	2
	2
	3
	2
	2
	2
	2
	3



Product	Extremely High	4	Right Amount (3)	2	Extremely Low (1
Carbon Fiber Reinforcements	0%	0%	100%	0%	0%
Glass Fiber Reinforcements	0%	0%	75%	25%	0%
Basalt Fiber Reinforcements	0%	0%	100%	0%	0%
Core Reinforcements	0%	0%	100%	0%	0%
Epoxy	0%	0%	100%	0%	0%
Polyurethane	0%	0%	100%	0%	0%
Thermoplastic	0%	0%	100%	0%	0%
Unsaturated Polyester Resin	0%	0%	50%	50%	0%
Vinyl Ester	0%	0%	100%	0%	0%
Total	0%	0%	88%	12%	0%

Medium: 11 - 100 Employees Product	Extremely High	4	Right Amount (3)	2	Extremely Low (1
Carbon Fiber Reinforcements	0%	0%	60%	40%	0%
Glass Fiber Reinforcements	0%	15%	77%	8%	0%
Basalt Fiber Reinforcements	0%	0%	67%	0%	33%
Core Reinforcements	0%	10%	70%	0%	20%
Ероху	0%	0%	67%	33%	0%
Polyurethane	0%	25%	75%	0%	0%
Thermoplastic	0%	0%	71%	14%	14%
Unsaturated Polyester Resin	0%	8%	83%	8%	0%
Vinyl Ester	0%	10%	60%	30%	0%
Total	0%	9%	71%	14%	6%

Large: 101+ Employees					
Product	Extremely High	4	Right Amount (3)	2	Extremely Low (1
Carbon Fiber Reinforcements	0%	0%	55%	38%	7%
Glass Fiber Reinforcements	10%	24%	54%	12%	0%
Basalt Fiber Reinforcements	0%	0%	69%	23%	8%
Core Reinforcements	0%	21%	68%	7%	4%
Epoxy	3%	11%	67%	19%	0%
Polyurethane	0%	7%	74%	11%	7%
Thermoplastic	0%	27%	58%	8%	8%
Unsaturated Polyester Resin	0%	15%	81%	4%	0%
Vinyl Ester	0%	14%	80%	6%	0%
Total	2%	15%	68%	12%	2%

Company Count
3
4
1
1
2
1
2
2
1
4

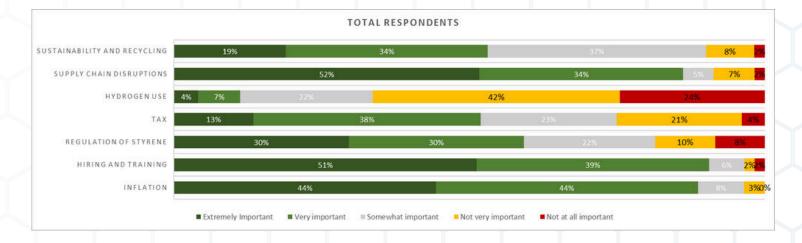
Company Count
5
13
3
10
6
4
7
12
10
16

29
59
13
28
36
27
26
54
51
75

Using a scale of 1 to 5 where "1" means extremely low inventory, "3" means the right amount, and "5" means extremely high inventory, how do you view inventory for the following inputs? Please only answer on products for which you have knowledge. *Darker shading represents the higher responses by market segment. Shading does not represent statistical significance.



Industry Topics of Interest



Top Two Topics of Interest

Торіс	Percent Very or Extremely Important
Hiring and Training	21.37%
Inflation	20.56%

*Top Two Topics calculated as the highest percentage of very or extremely important topics out of all very or extremely important responses.

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ACMA 3Q23 PULSE OF THE INDUSTRY SURVEY



Overall						
Topic	Extremely Important	Very important	Somewhat important	Not very important	Not at all important	
Sustainability and Recycling	19%	34%	37%	8%	2%	
Supply Chain Disruptions	52%	34%	5%	7%	2%	
Hydrogen Use	4%	7%	22%	42%	24%	
Tax	13%	38%	23%	21%	4%	
Regulation of Styrene	30%	30%	22%	10%	8%	
Hiring and Training	51%	39%	6%	2%	2%	
Inflation	44%	44%	8%	3%	0%	

Manufacturer					
Topic	Extremely Important	Very important	Somewhat important	Not very important	Not at all important
Sustainability and Recycling	18%	32%	39%	7%	3%
Supply Chain Disruptions	58%	29%	5%	7%	1%
Hydrogen Use	2%	7%	25%	41%	26%
Tax	15%	43%	24%	16%	3%
Regulation of Styrene	26%	33%	21%	11%	9%
Hiring and Training	49%	41%	8%	1%	0%
Inflation	47%	43%	4%	6%	0%

Supplier / Distributor						
Торіс	Extremely Important	Very important	Somewhat important	Not very important	Not at all important	
Sustainability and Recycling	17%	37%	34%	11%	0%	
Supply Chain Disruptions	45%	45%	3%	8%	0%	
Hydrogen Use	6%	9%	19%	44%	22%	
Tax	10%	32%	26%	32%	0%	
Regulation of Styrene	38%	24%	24%	9%	6%	
Hiring and Training	53%	39%	3%	3%	3%	
Inflation	42%	47%	11%	0%	0%	

Affiliate	67 KS		200 C		2
Topic	Extremely Important	Very important	Somewhat important	Not very important	Not at all important
Sustainability and Recycling	40%	40%	20%	0%	0%
Supply Chain Disruptions	20%	40%	20%	0%	20%
Hydrogen Use	20%	0%	20%	40%	20%
Tax	20%	20%	0%	20%	40%
Regulation of Styrene	25%	25%	25%	0%	25%
Hiring and Training	67%	17%	0%	0%	17%
Inflation	20%	40%	40%	0%	0%

Company Count		
	111	
	116	
	98	
	104	
	108	
	117	
	115	

Con	npany Co	ount
	71	
	73	
	61	
	68	
	70	
	73	
	72	

Compa	iny Count
1	35
	38
	32
	31
1	34
	38
1	38
	-

Cor	mpany Co	unt
	5	
	5	
	5	
	5	
	4	
	6	
	5	



Small: 1 - 10 Employe	es				
Торіс	Extremely Important	Very important	Somewhat important	Not very important	Not at all important
Sustainability and Recycling	43%	29%	29%	0%	0%
Supply Chain Disruptions	14%	43%	14%	14%	14%
Hydrogen Use	14%	0%	14%	43%	29%
Tax	0%	57%	0%	29%	14%
Regulation of Styrene	17%	0%	33%	33%	17%
Hiring and Training	50%	13%	13%	0%	25%
Inflation	14%	43%	43%	0%	0%

Medium: 11 - 100 Employees

Торіс	Extremely Important	Very important	Somewhat important	Not very important	Not at all important
Sustainability and Recycling	26%	11%	53%	11%	0%
Supply Chain Disruptions	45%	45%	9%	0%	0%
Hydrogen Use	0%	6%	25%	38%	31%
Tax	20%	30%	25%	25%	0%
Regulation of Styrene	25%	25%	25%	5%	20%
Hiring and Training	38%	57%	5%	0%	0%
Inflation	33%	62%	5%	0%	0%

Large: 101+ Employee	es				
Торіс	Extremely Important	Very important	Somewhat important	Not very important	Not at all important
Sustainability and Recycling	15%	40%	34%	8%	2%
Supply Chain Disruptions	56%	31%	3%	8%	1%
Hydrogen Use	4%	8%	23%	43%	23%
Tax	13%	39%	25%	19%	4%
Regulation of Styrene	32%	33%	21%	10%	5%
Hiring and Training	55%	38%	6%	2%	0%
Inflation	49%	40%	6%	5%	0%

Survey Question: Based on what you have read and heard, how important do you consider each of the following issues to your company? *Darker shading represents the higher responses by market segment. Shading does not represent statistical significance.

Company Count		
	7	
	7	
	7	
	7	
	6	
	8	
	7	

Con	npany Count
	19
	22
	16
	20
	20
	21
	21

Com	pany Co	ount
	85	
	87	
	75	
	77	
	82	
	88	
	87	



Background:

Purpose:

The purpose of the survey is to gauge perceptions about how the composites industry is performing over time. Published data from the survey will allow members to assess how their company's markets and inputs are trending relative to the overall composites industry; and enable ACMA to identify hot topics in the composites industry for which the association should be engaged on behalf of its members.

ACMA will also use the survey to gauge the perceived value of association membership and identify any strengths and areas for improvement.

Survey Objectives:

To assess perceptions of end market segments over the next quarter and next 9 months To determine the size of composites inputs inventory

To identify issues that members perceive to be important in the composites industry

Survey Methodology:

The survey is conducted on a **<u>quarterly</u>** basis among members of ACMA. The survey takes approximately <u>5 minutes</u> to complete and remain in the field for roughly two weeks.

Vault Consulting will distribute the survey each quarter and will be responsible for collecting, aggregating, and reporting results each quarter. Reports will be published roughly two weeks after fieldwork closes.

Sample sizes for 3Q23 were as follows:

Total Respondents 120 Manufacturers 75 Supplier/Distributor 39 Affliliates 6

Data collection was conducted between 6/7 and 6/26/2023.

For more information on this survey or how to participate please contact Paige Patterson at ppatterson@acmanet.org