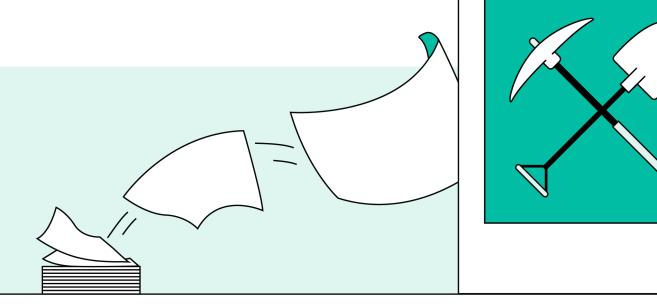


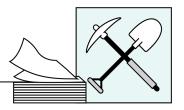
Custom DC plan benchmarks

Mining, quarrying, and oil and gas extraction





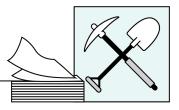
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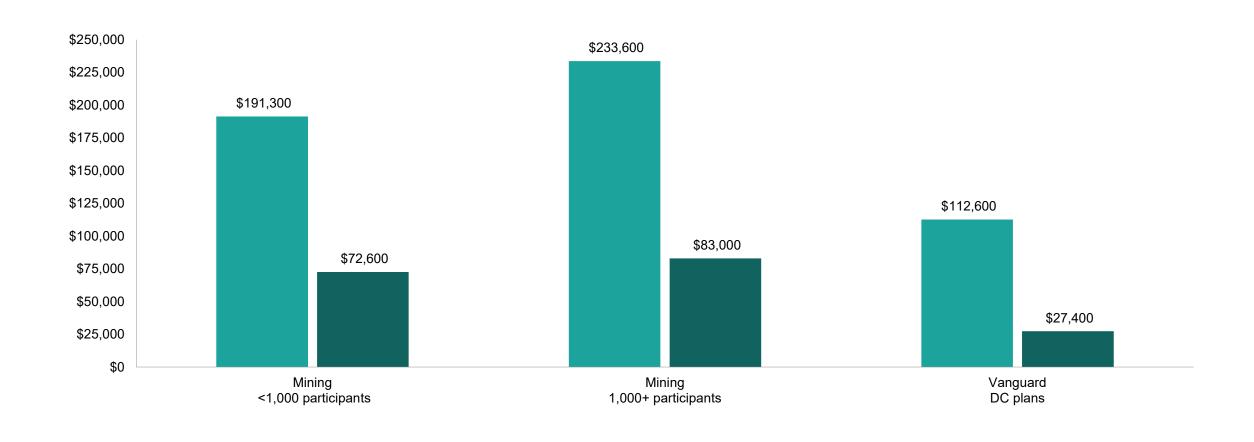
Benchmark population

	Mining <1,000 participants	Mining 1,000+ participants	Vanguard DC plans
Number of plans	25	15	1,650
Number of participants	6,710	84,595	4.9 million
Average number of participants	268	5,640	2,950
Median number of participants	234	3,264	565
Amount of assets	\$1.3 billion	\$19.8 billion	\$550.2 billion
Average assets	\$51.3 million	\$1.3 billion	\$333.9 million
Median assets	\$30.9 million	\$641.3 million	\$65.5 million

Mining, Quarrying, and Oil and Gas Extraction is defined by NAICS (North American Industry Classification System) sector 21.

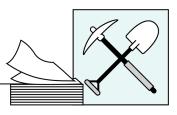


Participant balances



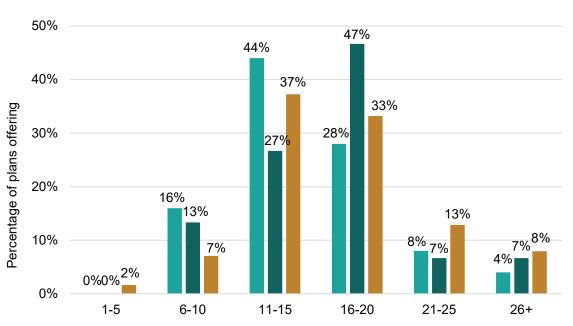
Source: Vanguard, as of December 31, 2022.

Average Median

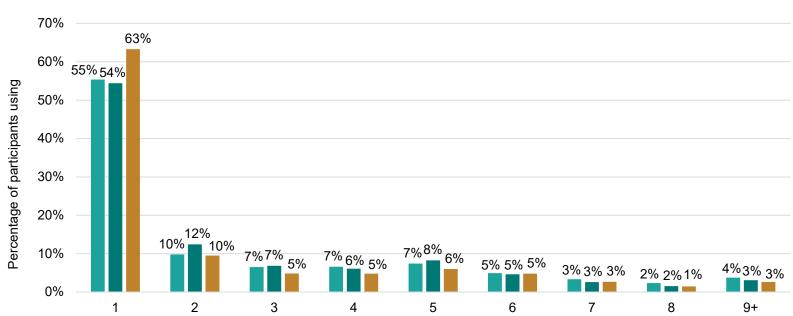


Number of fund options offered and used

Funds offered per plan (all life-cycle funds counted as one)

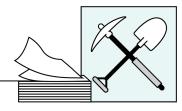


Funds used per participant



	Average funds offered	Median funds offered	Average funds used	Median funds used
Mining <1,000 participants	15.0	14	2.7	1
Mining 1,000+ participants	16.6	17	2.6	1
Vanguard DC plans	17.4	16	2.4	1

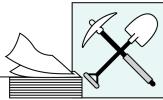
Source: Vanguard, as of December 31, 2022.



Types of investment options offered and used*

	Minin	g <1,000 participants	Minin	g 1,000+ participants		Vanguard DC plans
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*
Cash	100%	17%	100%	20%	99%	12%
Money market	64	10	40	19	70	6
Stable value / GIC	72	14	87	16	68	10
Bond	100%	19%	100%	18%	98%	17%
Active	56	11	87	7	80	7
Index	96	16	93	15	89	14
Inflation-protected securities	24	8	27	5	35	3
Multisector	4	4	20	1	8	2
High-yield	12	12	20	8	17	3
International	12	4	27	2	19	3
Emerging markets	0	0	0	0	1	2
Balanced funds	100%	80%	100%	85%	99%	87%
Traditional balanced	52	20	53	13	62	12
Target-risk	16	20	7	2	13	10
Target-date	100	71	100	82	96	83
Company stock	12%	93%	33%	33%	8%	36%
Self-directed brokerage	4%	4%	33%	1%	20%	1%

^{*}Among participants offered the option.

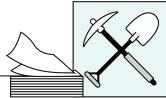


Types of investment options offered and used* (continued)

	Minin	g <1,000 participants	Minin	g 1,000+ participants		Vanguard DC plans
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*
quity funds	100%	39%	100%	32%	99%	30%
Domestic equity funds	100%	38%	100%	31%	99%	29%
Large-cap index	100	24	100	26	98	23
Large-cap active	96	25	87	14	90	16
Large-cap value	92	15	80	8	87	9
Large-cap growth	92	19	80	13	91	13
Large-cap blend	100	24	100	26	98	23
Mid-cap index	72	16	80	18	83	14
Mid-cap active	44	12	80	7	52	7
Small-cap index	48	17	53	15	63	11
Small-cap active	64	10	33	8	63	7
Socially responsible	8	13	13	4	15	5
International equity funds	100%	22%	100%	21%	97%	19%
Index international	76	9	67	17	79	14
Active international	96	17	93	14	83	10
Emerging markets	24	14	40	3	35	8
Global equity funds	20%	12%	13%	12%	17%	3%

^{*}Among participants offered the option.

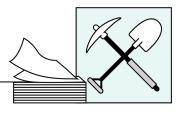




Types of investment options offered and used* (continued)

	Minin	g <1,000 participants	Minin	ng 1,000+ participants		Vanguard DC plans
	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*	Percentage of plans offering	Percentage of participants using*
Sector funds	24%	7%	33%	6%	38%	6%
REIT	20	4	33	5	32	5
Health care	4	15	0	0	8	7
Energy	4	18	0	0	5	5
Precious metals	0	0	0	0	2	2
Technology	4	6	0	0	3	5
Utilities	0	0	0	0	1	2
Natural resources	0	0	7	2	1	4
Financials	0	0	0	0	<0.5	1
Communications	0	0	0	0	<0.5	1
Consumer	0	0	0	0	<0.5	2
Industrials	0	0	0	0	<0.5	1

^{*}Among participants offered the option. Source: Vanguard, as of December 31, 2022.

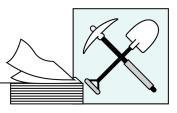


Target-date funds availability and use

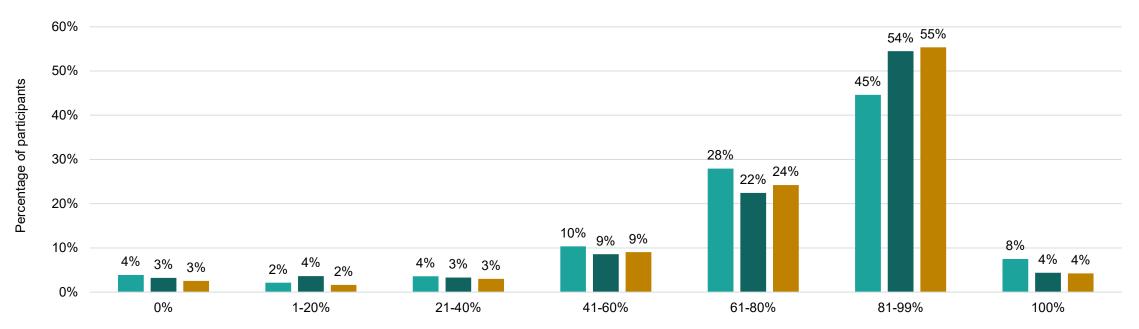
	Mining <1,000 participants	Mining 1,000+ participants	Vanguard DC plans
Percentage of plans offering	100%	100%	96%
Plan assets invested*	37%	37%	40%
Percentage of plan assets*			
<10%	8%	0%	5%
10–19%	12%	7%	10%
20–29%	28%	33%	17%
30–39%	12%	27%	21%
40–49%	12%	20%	17%
50%+	28%	13%	30%
Percentage of participants using *	71%	82%	83%
Percentage of participant assets**	65%	54%	61%
Percentage of participant assets in target-date funds**			
1–24%	11%	12%	10%
25–49%	7%	11%	8%
50–74%	5%	5%	4%
75–99%	5%	9%	6%
100%	72%	63%	72%
Percentage of participants owning**			
One target-date fund only	69%	60%	71%
One target-date fund plus other funds	24%	31%	23%
Two or more target-date funds only	3%	2%	2%
Two or more target-date funds plus other funds	4%	7%	4%

^{*}Among plans offering target-date options.

^{**}Among participants owning target-date options.



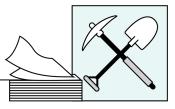
Participant equity exposure



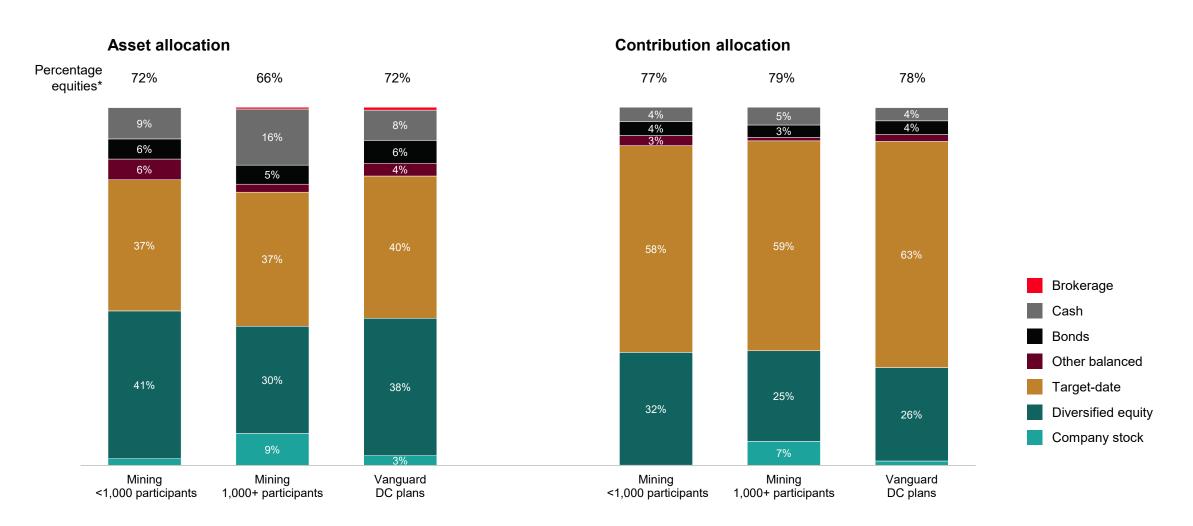
Percentage of assets in equities

	Average percentage in equities	Median percentage in equities
Mining <1,000 participants	74%	81%
Mining 1,000+ participants	75%	86%
Vanguard DC plans	77%	86%

Source: Vanguard, as of December 31, 2022.

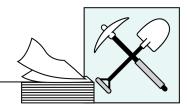


Asset and contribution allocations



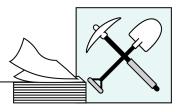
^{*}Equities include company stock, diversified equity, and the equity portion of balanced funds.

Source: Vanguard, as of December 31, 2022.



Participants with professionally managed allocations

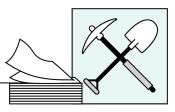
	Mining <1,000 participants	Mining 1,000+ participants	Vanguard DC plans
All participants			
Single target-date fund	49%	50%	59%
Single balanced fund	<0.5%	<0.5%	<0.5%
Managed account program	2%	9%	7%
Total	51%	59%	66%
New plan entrants during the year			
Single target-date fund	82%	90%	87%
Single balanced fund	<0.5%	<0.5%	<0.5%
Managed account program	<0.5%	2%	2%
Total	82%	92%	89%



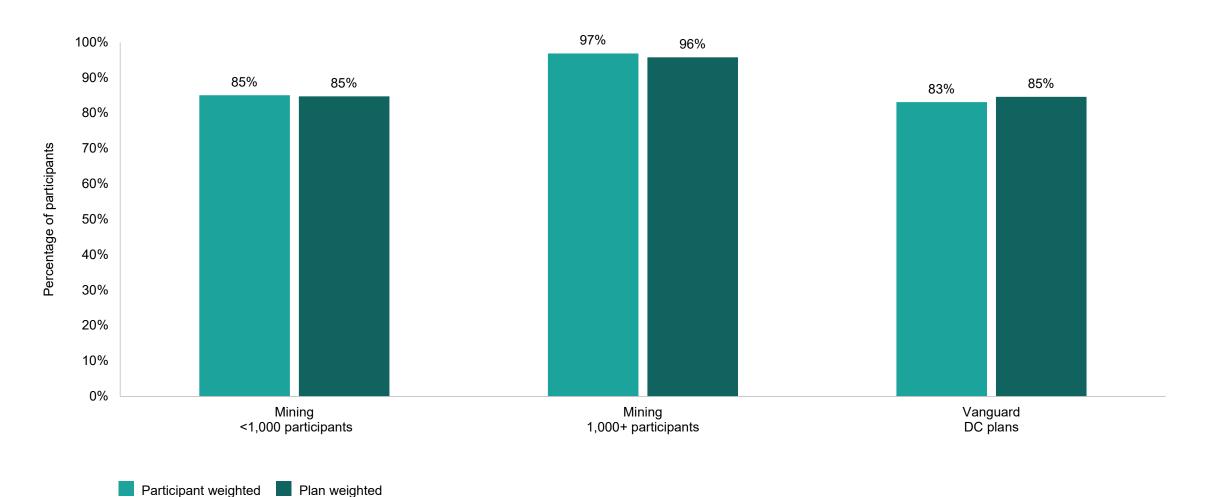
Automatic enrollment options*

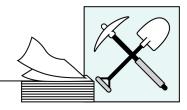
	Mining <1,000 participants	Mining 1,000+ participants	Vanguard DC plans
Automatic enrollment*			
Number of plans	6	12	884
Percentage of plans	25%	80%	58%
Default automatic enrollment rate			
1 percent	0%	0%	2%
2 percent	0%	0%	5%
3 percent	17%	33%	34%
4 percent	33%	0%	14%
5 percent	17%	8%	17%
6 percent or more	33%	58%	28%
Default automatic increase rate			
1 percent	67%	42%	66%
2 percent	0%	0%	3%
Voluntary election	17%	58%	25%
Service feature not offered	17%	0%	6%
Default automatic increase cap			
<6 percent	0%	0%	2%
6 to 9 percent	50%	0%	17%
10 to 14 percent	25%	60%	48%
15 to 19 percent	25%	20%	22%
20+ percent	0%	20%	6%
No cap	0%	0%	5%
Default fund			
Target-date fund	100%	100%	98%
Other balanced fund	0%	0%	1%
Money market or stable value fund	0%	0%	1%

^{*}Limited to plans using Vanguard's automatic enrollment service.



Participation rates





Participant deferral rates

	Mining <1,000 participants	Mining 1,000+ participants	Vanguard DC plans
Deferral rates			
Average	8.1%	8.6%	7.4%
Median	6.9%	8.0%	6.4%
Distribution of rates			
<4.0%	12%	14%	25%
4.0% - 6.0%	23%	15%	19%
6.1% – 9.9%	39%	37%	32%
10.0% – 14.9%	19%	26%	17%
15.0%+	7%	8%	7%

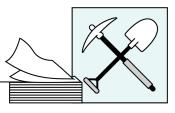
Source: Vanguard active plans with nondiscrimination testing completed during the past two years.



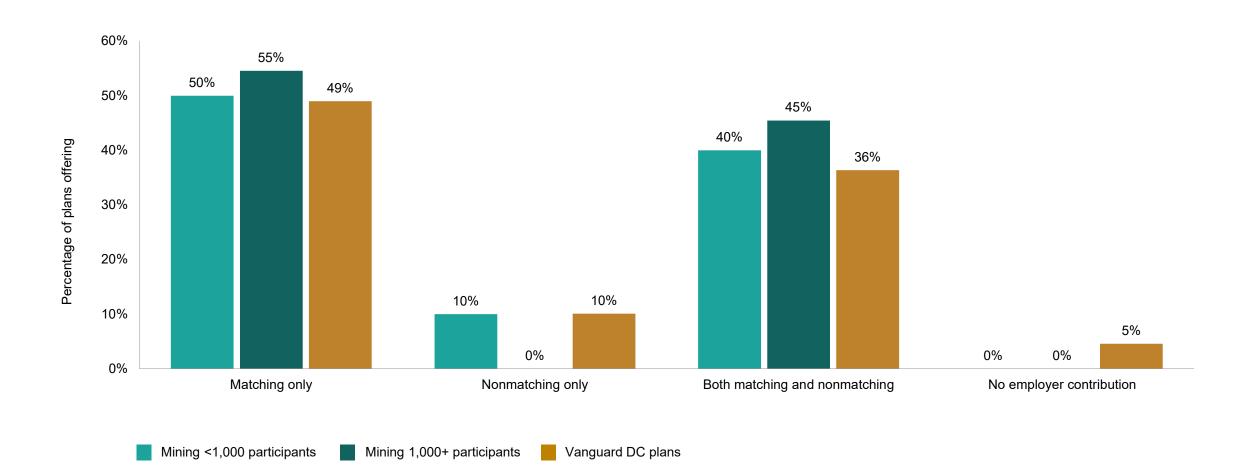
Aggregate participant and employer contribution rates

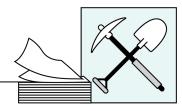
	Mining <1,000 participants	Mining 1,000+ participants	Vanguard DC plans
Total saving rate			
Average	14.6%	15.0%	11.3%
Median	14.5%	14.8%	10.6%
Distribution of rates			
<5.0%	5%	3%	18%
5.0% - 8.9%	17%	13%	20%
9.0% – 11.9%	18%	15%	21%
12.0% – 14.9%	17%	20%	17%
15.0% +	42%	49%	23%

Source: Vanguard active plans with nondiscrimination testing completed during the past two years.

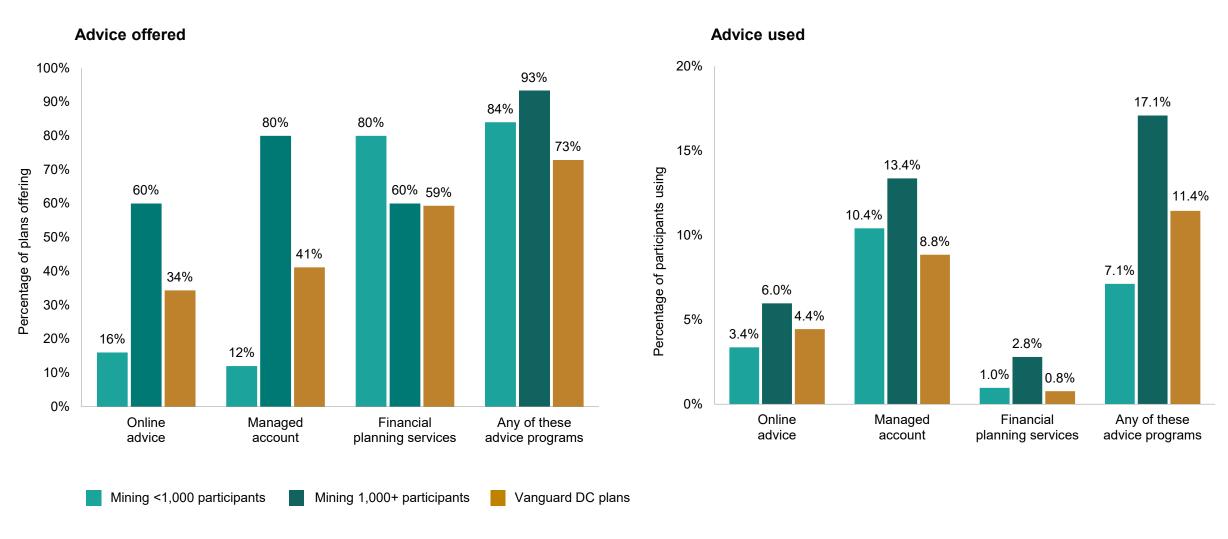


Types of employer contributions

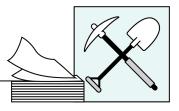




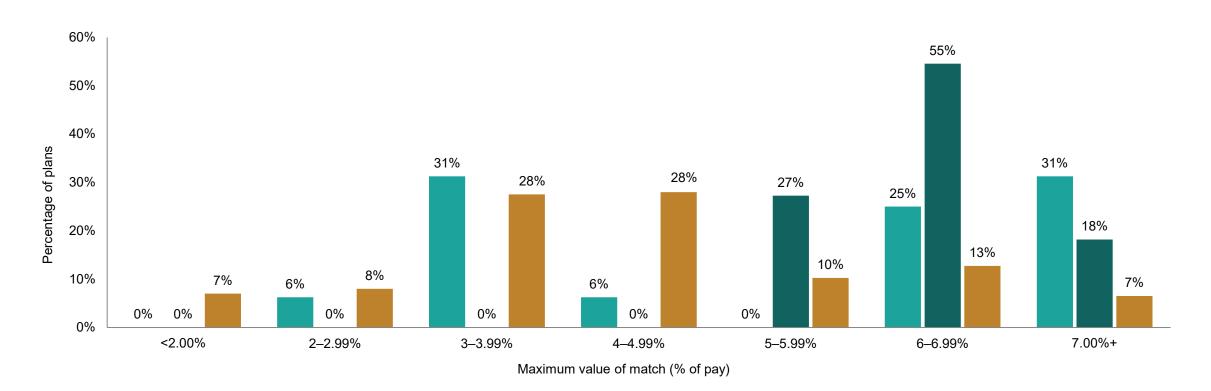
Advice services



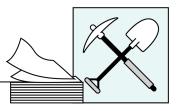
Source: Vanguard, as of December 31, 2022.



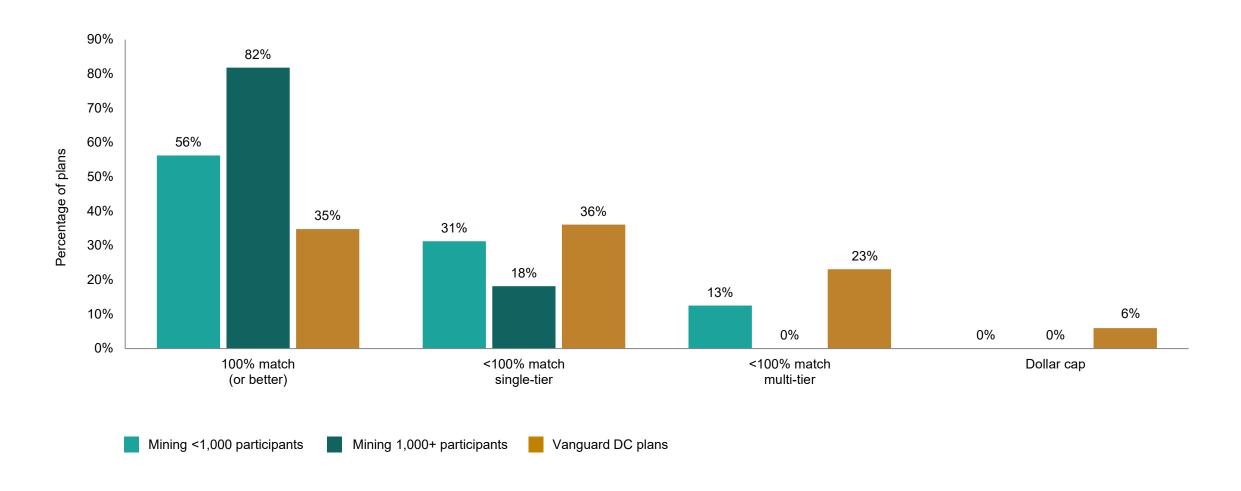
Matching contributions

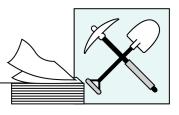


	Average value	Median value
Mining <1,000 participants	6.3%	6.0%
Mining 1,000+ participants	6.4%	6.0%
Vanguard DC plans	4.5%	4.0%

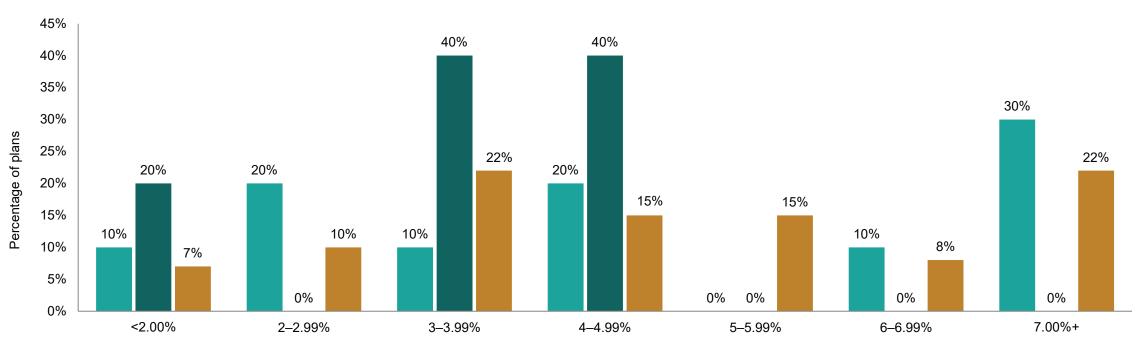


Matching formulas



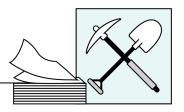


Nonmatching/Profit-sharing employer contributions



Average value of nonmatching contribution (% of pay)

	Average value	Median value	
Mining <1,000 participants	6.0%	4.7%	
Mining 1,000+ participants	3.6%	3.8%	
Vanguard DC plans	5.1%	4.1%	



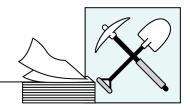
Roth availability and use

	Mining <1,000 participants	Mining 1,000+ participants	Vanguard DC plans
Percentage of plans offering Roth (among plans with elective deferrals)	79%	87%	80%
Percentage of plan assets invested in Roth*	3.6%	2.3%	3.8%
Distribution of percentage of plan assets in Roth	0.070	2.070	0.070
<1%	21%	23%	19%
1–2%	21%	31%	36%
3–5%	32%	38%	27%
6–9%	21%	8%	13%
10–14%	0%	0%	4%
15%+	5%	0%	2%
Percentage of participants with assets in Roth*	21%	15%	16%
Percentage of participant assets in Roth**	15%	11%	17%
Distribution of participant assets in Roth			
1–24%	63%	75%	54%
25–49%	26%	17%	23%
50–74%	9%	6%	14%
75–99%	2%	1%	6%
100%	0%	1%	3%
Percentage of participants making Roth contributions (past 12 mo)***	23%	15%	15%
Percentage of participant contributions going to Roth**	61%	47%	55%
Distribution of percentage of participant contributions to Roth			
1–24%	17%	36%	22%
25–49%	23%	23%	26%
50–74%	17%	10%	15%
75–99%	4%	9%	7%
100%	39%	22%	30%

^{*}Among plans offering Roth.

^{**}Among participants using Roth.

^{***}Among participants making elective deferrals.



Participant loans and in-service withdrawals

	Mining <1,000 participants	Mining 1,000+ participants	Vanguard DC plans
Outstanding loans*			
Percentage of participants with outstanding loans	12%	20%	12%
Percentage of account balance in loans	9%	8%	11%
Average loan balance	\$13,710	\$14,922	\$10,369
Number of outstanding loans per participant*			
No loans	88%	80%	88%
One loan	10%	10%	10%
Two loans	2%	8%	2%
Three+ loans	0%	2%	0%
Loans issued past 12 months*			
Average per 1,000 active participants	99	193	93
Average loan amount	\$17,742	\$12,779	\$10,701
Nonhardship withdrawals taken past 12 months**			
Average per 1,000 active participants	94	406	93
Average withdrawal amount	\$37,673	\$13,988	\$17,560
Hardship withdrawals taken past 12 months**			
Average per 1,000 active participants	41	52	49
Average withdrawal amount	\$9,805	\$8,221	\$5,126

^{*}Among plans allowing loans.

^{**}Among participants allowed in-service withdrawals.

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