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Prepared for





### 2020 Divestment Analysis

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# wilshire associates Background



- CalPERS' Total Fund Investment Policy outlines two divestment-related actions:
  - Staff conduct a review of active divestments at least every five years for a determination whether to continue. Staff are due to undertake a review of all active divestment programs in 2021.
  - To help inform the five year re-affirmation process and monitor the financial impacts of active divestments annually, Wilshire is mandated to provide an annual report to the Investment Committee on the estimated financial impacts.
- This presentation contains:
  - The summary annual impact analysis since last affirmation
  - Illustrative Examples of how divested assets are reinvested and how we calculate the dollar impact of divestments
  - The Appendix contains the full history of our impact analysis for each active divestment program

#### WILSHIRE ASSOCIATES Illustrative industry reallocation example



In this example, \$25 is divested from the Tobacco industry and gets re-invested on a pro-rata basis across the IT and Utility industries.

- IT and Utilities exhibit higher returns (10.25% and 10%) than Tobacco (9.55%).
- With more exposure to the better performing industries, the ex-tobacco portfolio outperforms the portfolio with tobacco by +15bps (10.15% return vs 10% return).

	Uncons	strained Bend	hmark	<b>Divestment Changes</b>	Constrained Benchmark		
Industry	\$ Invested	Weight	Return	\$ Buy / Sell	\$ Invested	Weight	Return
IT	\$45	45%	10.25%	\$15	60	60%	10.25%
Utilities	\$30	30%	10.00%	\$10	40	40%	10.00%
Tobacco	\$25	25%	9.55%	-\$25	0	0%	9.55%
Total	\$100	100%	10.00%	\$0	100	100%	10.15%

**Q.** How do we calculate the annual dollar incremental impact of Tobacco using this example?

A. If we assume the AUM of the PERF is \$10,000, then the annual incremental impact of tobacco divestment is: \$15 (i.e \$10,000 x 0.15%)

Combine \$15 impact with previous impacts

### WILSHIRE ASSOCIATES How do we bring forward previous impacts to include the current impact?



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#### WILSHIRE ASSOCIATES Summary Analysis Since Last Affirmation



Since their last affirmation by the Investment Committee, for the period up to June 30 2020, all active CalPERS divestment programs have delivered positive performance

	2,367	0.0%	<u>-</u>	
Active Total	2 267	0.6%		
Thermal Coal	348	0.1%	N/A*	3Q2017
Firearms	3	0.0%	Pending	2Q2013
Iran	183	0.0%	Pending	3Q2011
Sudan	290	0.1%	Pending	3Q2010
EMPrinciples	688	0.2%	Pending	1Q2008
Tobacco	856	0.2%	Yes	1Q2017
	\$MM	% PERF	Affirmation	Calendar Qtr.
	Present Val	ue Estimate	Program	Estimates Begin in

#### Active Divestment Programs (Last Affirmation to FY 2020)

\* Thermal Coal divestment program began 3Q2017

Q. Where do the \$ gained or lost through divestment since last affirmation show up in CalPERS' performance numbers?A. The gains or losses from divestment are reflected in CalPERS' Total Fund return and AUM.





Appendix

#### WILSHIRE ASSOCIATES Summary Analysis Since Inception



Since inception, the active divestment program has lost CalPERS \$2.18bn in present value terms. Since inception, the Tobacco divestment has resulted in losses and the other divestment programs have delivered gains.

### **Divestment Programs (Inception to FY 2020)**

-	Present Value Estimate								
	\$MM	% PERF	Active Dates						
Active									
Tobacco	(3,692)	(0.9%)	1Q2001 to Present						
EMPrinciples	688	0.2%	1Q2008 to Present						
Sudan	290	0.1%	3Q2010 to Present						
Iran	183	0.0%	3Q2011 to Present						
Firearms	3	0.0%	2Q2013 to Present						
Thermal Coal	348	0.1%	3Q2017 to Present						
Active Total	(2,180)	(0.6%)							

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Impact of Tobacco Divestment										
				1						
	1	otal Return	1	\$MM Return	Trading	PERF	Cumulative PV	Impact (\$MM)		
Year	GEex-Tob	GE	Net	Impact	Cost (\$MM)	Return	Inception	Affirmation		
2001				-9.3	-1.4	-6.12%	-15	N/A		
2002				-144.5		-9.55%	-152	N/A		
2003				-124.8		23.23%	-313	N/A		
2004				-217.5		13.21%	-577	N/A		
2005				-293.9		10.41%	-949	N/A		
2006				-109.8		15.41%	-1,203	N/A		
2007				-172.5		9.99%	-1,500	N/A		
2008				-102.2		-27.12%	-1,189	N/A		
2009				116.5		11.89%	-1,208	N/A		
2010				-103.1		12.45%	-1,465	N/A		
2011				-423.3		1.16%	-1,905	N/A		
2012				-283.6		13.28%	-2,469	N/A		
2013	24.40%	24.25%	0.15%	182.2		16.22%	-2,682	N/A		
2014	4.51%	4.57%	-0.06%	-86.9		6.51%	-2,944	N/A		
2015	-2.22%	-2.01%	-0.21%	-321.0		-0.09%	-3,266	N/A		
2016	9.03%	9.02%	0.02%	29.3		7.67%	-3,502	N/A		
2017	24.35%	24.25%	0.10%	141.7	-1.2	15.73%	-3,916	136		
2018	-8.83%	-9.08%	0.26%	485.3		-3.49%	-3,311	600		
2019	25.88%	25.84%	0.04%	56.1		17.31%	-3,826	762		
1H2020	-7.10%	-7.15%	0.04%	105.3		-0.88%	-3,692	856		

	Total Return			\$MM Return	Trading	PERF	<b>Cumulative PV</b>	Impact (\$MM)
Year	GE ex- EM	GE	Net	Impact	Cost (\$MM)	Return	Inception	Affirmation
2008				8.9		-27.12%	51	51
2009				90.6		11.89%	155	155
2010				-68.8		12.45%	107	107
2011				-132.8		1.16%	-20	-20
2012				15.5		13.28%	-9	-9
2013	24.51%	24.25%	0.26%	282.3		16.22%	299	299
2014	4.64%	4.57%	0.07%	108.8		6.51%	428	428
2015	-1.98%	-2.01%	0.03%	47.0		-0.09%	476	476
2016	9.01%	9.02%	-0.01%	-11.4		7.67%	501	501
2017	24.26%	24.25%	0.00%	1.7		15.73%	582	582
2018	-9.09%	-9.08%	-0.01%	-9.0		-3.49%	548	548
2019	25.86%	25.84%	0.02%	25.6		17.31%	672	672
1H2020	-7.13%	-7.15%	0.01%	24.6		-0.88%	688	688

#### Impact of Emerging Market Principles

#### Impact of Sudan Divestment

	T	otal Return	า	\$MM Return	Trading	PERF	Cumulative PV	Impact (\$MM)
Year	GEex-Sudar	GE	Net	Impact	Cost (\$MM)	Return	Inception	Affirmation
2010				24.2		12.45%	25	25
2011	-7.71%	-7.71%	0.00%	0.4		1.16%	26	26
2012	17.00%	17.00%	0.00%	-1.1		13.28%	29	29
2013	24.33%	24.25%	0.08%	84.9		16.22%	125	125
2014	4.57%	4.57%	0.00%	4.3		6.51%	138	138
2015	-1.97%	-2.01%	0.04%	59.2		-0.09%	198	198
2016	8.98%	9.02%	-0.03%	-43.1		7.67%	170	170
2017	24.27%	24.25%	0.02%	21.1		15.73%	220	220
2018	-9.09%	-9.08%	-0.01%	-23.4		-3.49%	190	190
2019	25.86%	25.84%	0.02%	37.1		17.31%	258	258
1H2020	-7.13%	-7.15%	0.02%	36.1		-0.88%	290	290

	Impact of Iran Divestment											
	Т	otal Return	ו	\$MM Return	Trading	PERF	<b>Cumulative PV</b>	Impact (\$MM)				
Year	GEex-Iran	GE	Net	Impact	Cost (\$MM)	Return	Inception	Affirmation				
2011				20.6	-0.4	1.16%	21	21				
2012				1.4		13.28%	25	25				
2013	24.29%	24.25%	0.04%	47.2		16.22%	80	80				
2014	4.59%	4.57%	0.02%	33.6		6.51%	120	120				
2015	-2.00%	-2.01%	0.01%	16.9		-0.09%	137	137				
2016	9.00%	9.02%	-0.02%	-22.2		7.67%	125	125				
2017	24.25%	24.25%	0.00%	0.6		15.73%	146	146				
2018	-9.09%	-9.08%	-0.01%	-15.1		-3.49%	127	127				
2019	25.85%	25.84%	0.01%	15.1		17.31%	167	167				
1H2020	-7.14%	-7.15%	0.01%	20.5		-0.88%	183	183				

	Impact of Firearms Divestment												
	٦	<b>Fotal Return</b>	า	\$MM Return	Trading	PERF	<b>Cumulative PV</b>	Impact (\$MM)					
Year	GEex-FA	GE	Net	Impact	Cost (\$MM)	Return	Inception	Affirmation					
2013				-2.0	-8.1	16.22%	-10	-10					
2014	4.57%	4.57%	0.00%	4.5		6.51%	-6	-6					
2015	-2.01%	-2.01%	0.00%	-2.7		-0.09%	-9	-9					
2016	9.02%	9.02%	0.00%	4.8		7.67%	-5	-5					
2017	24.25%	24.25%	0.00%	-3.0		15.73%	-8	-8					
2018	-9.08%	-9.08%	0.00%	-0.2		-3.49%	-10	-10					
2019	25.85%	25.84%	0.01%	22.3		17.31%	6	6					
1H 2020	-7.15%	-7.15%	0.00%	4.4		-0.88%	3	3					

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	Total Return			\$MM Return	Trading	PERF	<b>Cumulative PV</b>	Impact (\$MM)
Year	GEex-Coal	GE	Net	Impact	Cost (\$MM)	Return	Inception	Affirmation
2017				45.5	0.0	15.73%	47	47
2018	-9.02%	-9.08%	0.06%	116.5		-3.49%	155	155
2019	25.92%	25.84%	0.08%	122.5		17.31%	308	308
1H 2020	-7.12%	-7.15%	0.02%	47.5		-0.88%	348	348