

ORNL Evaluation of Full \$80B Super ESPC Contract Ceiling Utilization

Starting Facts and Figures

Federal Buildings Energy Usage (FY 2005)

Total Delivered Energy:	0.30 Quad	<i>1 Quad = 1 Quadrillion (1,000 trillion) BTU</i>
Total Primary Energy:	0.65 Quad	<i>(equivalent to 8 billion gallons of gasoline)</i>

Federal Buildings Energy Expenditures (FY 2005)

Total Expenditure:	\$4.390 B
<i>Top 3 Fuel Type Expenditures:</i>	
Electricity (67.8%):	\$2,977 B
Natural Gas (19.3%):	\$0.849 B
Fuel Oil (6.2%):	\$0.272 B

Super ESPC Details /Current Statistics

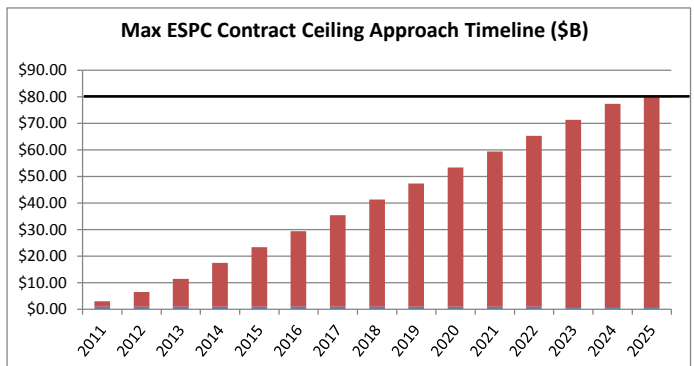
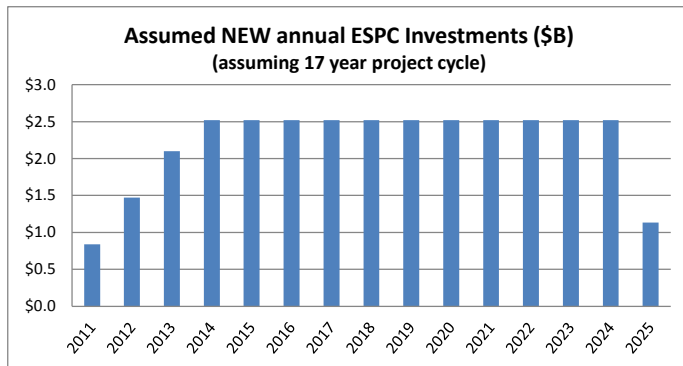
Current utilization of \$80B ceiling:	1.20% (~\$1B in contracts value on new IDIQ)
Number of Active Projects	~200
Average Contract Term Length:	17 yrs

Assumptions

Contract Term Length:	17 yrs
Investments as % of Contract Price:	42%
Annual value of investment additions:	ramping to \$2.5B/yr per chart below

Note: Initial calculations applying full the \$80B contract ceiling to building projects indicated that energy savings would exceed current federal building usage given current ESPC performance parameters

- **Resulting approach** : Assume **\$60B** to be utilized for building energy savings, **\$20B** to be utilized for alternate energy projects (i.e. mobility)



Results

Cummulative Effects:	Saved			Created
	\$(B)	Quads	CO2 (B-lbs)	Job-yrs
over the next 15 yrs	\$1.2	2.4	338	509,783
over the next 20 yrs	\$2.7	4.2	621	527,391
over the next 25 yrs	\$9.3	5.7	865	527,391
of full \$80B expenditure	\$21.2	6.8	1038	527,391

