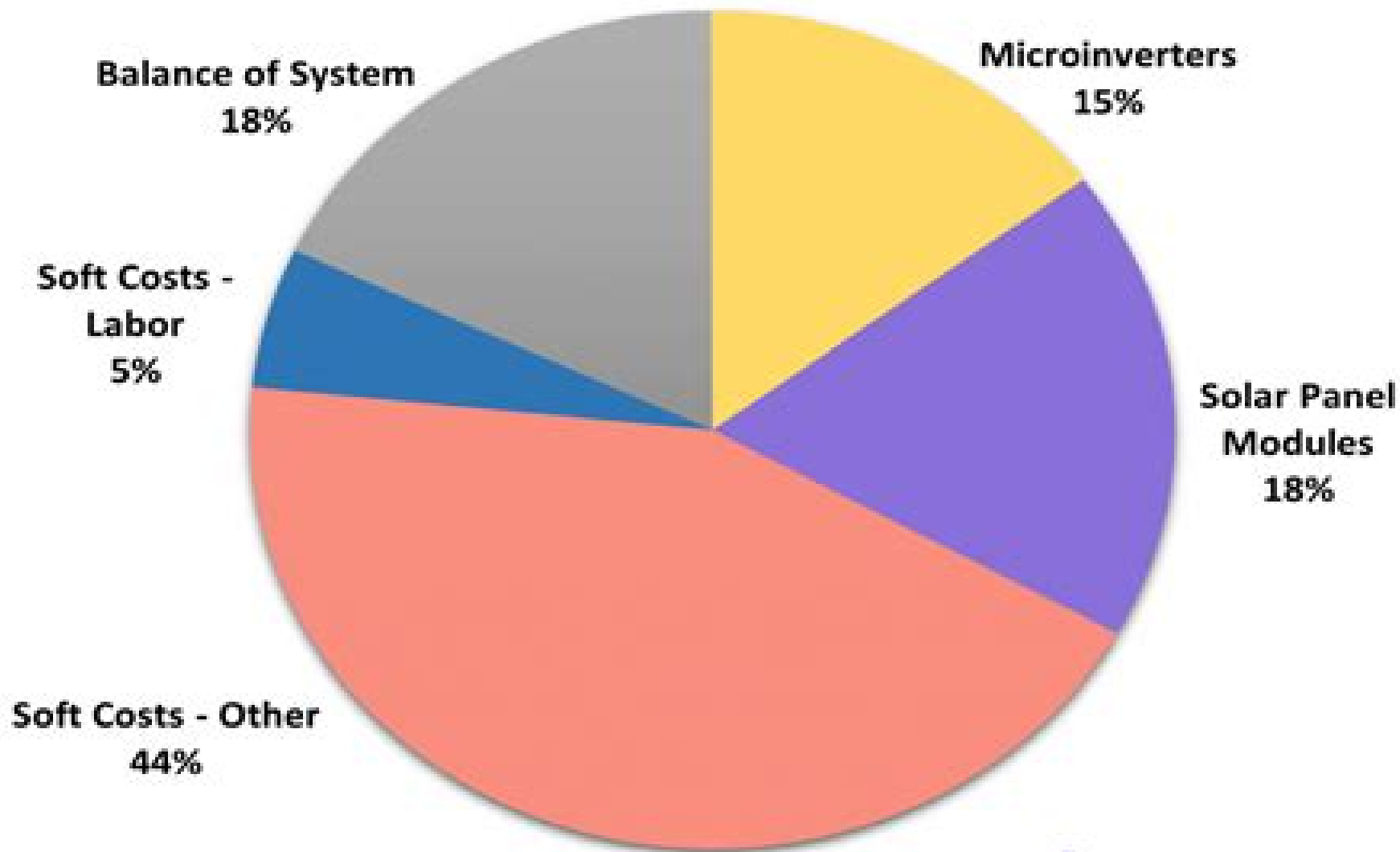


Solar System Cost Breakdown

Components as a percent of Price Per Watt (PPW)



Data: National Renewable Energy Lab (NREL) 2022

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Economic Analysis Of Solar Thermal Systems

Ian Pickup



Economic Analysis Of Solar Thermal Systems:

Economic Analysis of Solar Thermal Energy Systems ,1988 **Economic Analysis of Solar Thermal Energy Systems**
Ronald E. West, Frank Kreith, 1988 Sunshine may be abundant and free but converting it into a usable form of energy is expensive Investment decisions funding of research and development and commercial applications all rely on economic analysis This book reviews the spectrum of economic methods that have been developed from the mid 1970s to the mid 1980s to analyze the feasibility of solar systems and shows how the use of these techniques has influenced federally sponsored research development and demonstration programs There is a strong emphasis on the use of methods and modeling in studying policy alternatives The book also reviews applications analysis net energy analysis and cost requirements for active and passive heating and cooling for electric power generation and for industrial process heat The change in the costs of solar systems over time is one indication of program success and the book includes a useful summary of the cost histories of various solar programs **Economic Analysis of Community Solar Heating Systems that Use Annual Cycle Thermal Energy Storage** Frank Baylin, 1981 This report examines the economics of community scale solar systems that incorporate a centralized annual cycle thermal energy storage ACTES coupled to a distribution system Systems were sized for three housing configurations single unit dwellings 10 unit and 200 unit apartment complexes in 50 200 400 and 1000 unit communities in 10 geographic locations in the United States Thermal energy is stored in large constructed underground tanks Costs were assigned to each component of every system in order to allow calculation of total costs Results are presented as normalized system costs per unit of heat delivered per building unit **Economic Analysis of Community Solar Heating Systems that Use Annual Cycle Thermal Energy Storage** ,1981 *An Economic Analysis of Solar Water & Space Heating* United States. Energy Research and Development Administration. Division of Solar Energy, 1976 Solar Energy Update ,1981 Conference on Systems Simulation and Economic Analysis for Solar Heating and Cooling ,1978 **Systems Simulation and Economic Analysis** ,1980 **Energy Abstracts for Policy Analysis** ,1982 Energy Research Abstracts ,1983 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1976-05 **Energy: a Continuing Bibliography with Indexes** ,1981 **Fossil Energy Update** ,1981 Energy ,1983 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration. Technical Information Center, 1976 Management ,1983 **NASA SP-7500** United States. National Aeronautics and Space Administration, 1982 **ERDA Research Abstracts** United States. Energy Research and Development Administration, 1976 **RERIC Holdings List** Renewable Energy Resources Information Center (Thailand), 1989 **Nigerian Journal of Renewable Energy** ,1997

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$$4\text{Cu} + 2\text{AgNO}_3 \rightarrow 2\text{Ag} + \text{Cu} + 2\text{AgNO}_3 + 2\text{Cu} + 2\text{AgNO}_3$$

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 $8.3 \text{ mole } \text{H}_2\text{S} \times 18 \text{ g } \text{H}_2\text{O} = 149.4 \text{ g } \text{H}_2\text{O}$ is your theoretical yield so percent yield $\frac{137.1 \text{ g } \text{H}_2\text{O}}{149.4 \text{ g } \text{H}_2\text{O}} \times 100 = 91.77\%$
 problems 6 & 8 are similar to problem 5

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 $4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$
 b determine the theoretical yield of Al_2O_3 $\frac{160.0 \text{ g } \text{Al}}{27 \text{ g/mol}} = 5.93 \text{ mol } \text{Al}$
 $\frac{5.93 \text{ mol } \text{Al}}{4} \times 2 = 2.96 \text{ mol } \text{Al}_2\text{O}_3$
 $2.96 \text{ mol } \text{Al}_2\text{O}_3 \times 101.96 \text{ g/mol} = 301.9 \text{ g } \text{Al}_2\text{O}_3$
 c determine the percent yield $\frac{260.0 \text{ g}}{301.9 \text{ g}} \times 100 = 86.1\%$

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