

Solar Steam Train Concept

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Concentrated solar thermal energy will be collected using parabolic trough technology and used to make steam at a plant that will also house electric power generation and transfer equipment. Initially, historic fireless locomotives will be restored and used on tourist train lines as demonstration platforms. Simultaneously, Research and Development will commence in concert with the State University system to build and deploy modern steam technology in the transportation sector.

The hybrid steam plant will serve as the heart of a District Energy System providing energy security and efficiency for upcoming development projects. In addition to thermal energy collected from the sun, biomass, fossil fuels and 'waste' heat are feed-stock candidates to supplement solar at night and on cloudy winter days.