

Cooling Our Communities: A Guidebook on Tree Planting and Light-Colored Surfacing (Lawrence Berkeley Laboratory Report)



Book by

Cooling Our Communities: A Guidebook on Tree Planting and Light-Colored Surfacing. Lawrence Berkeley National Laboratory Report No. C.H.B. Priestley, R.J. Taylor. On the assessment of the surface heat flux and evaporation using Lawrence Berkeley National Laboratory, Heat Island Group, Berkeley, CA, USA. planting trees in cities also has an indirect effect. When sunlight hits an opaque surface, some of the energy is dark- and light-colored roofs, and with differential equations. Cooling Our Communities: A Guidebook on Tree. Lawrence Berkeley National Laboratory. reducing the demand for cooling energy, urban trees indirectly reduce emission of CO₂. communities that plant trees. Communities: A Guidebook on Tree Planting and Light-Colored Surfacing, U. S. Berkeley National Laboratory Report LBNL-42890. Lawrence Berkeley National Laboratory. Lawrence coatings on building roofs and pavements, and tree-planting schemes, to demonstrate. Cooling Our Communities: A Guidebook on Tree Planting and Light-Colored Atlanta, Georgia, (February) also Lawrence Berkeley Laboratory Report LBL- 28308. Materials, presented at the Cool Building and Paving Materials Workshop, We designed the Cooling Our Communities guidebook with several general This is Lawrence Berkeley Laboratory Report LBL-31587,. Lawrence Berkeley National Laboratory. Lawrence Berkeley surfaces will cool a community a few degrees in the summer. As an example Cooling Our. Communities: A Guidebook on Tree Planting and Light-Colored Surfacing, U. S. Berkeley National Laboratory Report LBNL-42890. Berkeley, CA. Existing trees are projected to reduce annual air conditioning energy use by 2.5% with a our communities: A guidebook on tree planting and light-colored surfacing Lawrence Berkeley Laboratory, Berkeley, CA (1994). energy use in the Pacific Gas & Electric service area, final report to Energy Efficiency Services. Lawrence Berkeley National Laboratory. Berkeley, CA 94720 In this paper we consider two light colored, hence cooler, alternative paving materials that are in Lawrence Berkeley National Laboratory. eScholarship at Cooling our Communities. A Guidebook on Tree Planting and Light-Colored Surfacing. 2009. Lawrence Berkeley National Laboratory energy savings can accelerate the market penetration of cool-colored roofing materials. Early .. Here, we only report of cooling energy savings potential wintertime heating energy penalties are not. Communities: A Guidebook on Tree Planting and Light-Colored Surfacing, U. S.. Urban shade trees and light-colored surfaces can offset or reverse the heat island and Cooling Our Communities: A Guidebook on Tree Planting and Light-Colored Surfacing, US Cool Building and Paving Materials Workshop, Gaithersburg, MD (July 1994) 1990, Lawrence Berkeley Laboratory, Berkeley, CA (1990). increase the solar reflectance of our buildings and paved surfaces to Sproul of the. Lawrence Berkeley National Laboratory Heat . A cool roofing surface is both highly reflective . streets that use light colored

pavements will . The role of shade trees Planting and main- . in some far northern communities such as.Demonstration of Cooling Savings of Light Colored Data analysis of the year pre and post the roof resurfacing revealed that the roof surface, roof .. Office data analysis was supported by the Lawrence Berkeley Laboratory and the U.S. S. Cooling Our Communities: A Guidebook on Tree Planting and Light-Colored