

APPENDIX D

Resources for Funding LBE Programs

This appendix provides state examples and resources to complement information provided in the *LBE Guide*. More information on funding LBE programs can be found in Section 5.2, *Finance the LBE Program*.

TABLE D.1 RESOURCES FOR FUNDING LBE PROGRAMS

State or Title	Description	URL
State Examples of Funding LBE Programs		
Iowa	The Iowa Alternate Energy Revolving Loan Program Guidelines provide state officials with a map of the technical application procedures and loan approval processes involved in the procurement of energy efficiency improvement loans. The program guidance includes an information sheet about the technical application procedure.	http://www.energy.iastate.edu/AERLP/index.htm
Maryland	The State Agency Loan Program was established in 1991 using funds from the Energy Overcharge Restitution Fund. State agencies pay no interest for the loans. Repayments are made using energy cost savings.	http://www.dsireusa.org/library/includes/incentivesearch.cfm?Incentive_Code=MD08F&Search=Eligible&sector=State_Sector&currentpageid=2&EE=1&RE=0
Montana	The Montana State Buildings Energy Conservation Bond Program provides financing for energy efficiency upgrades in state-owned buildings. The program uses bond proceeds to fund the projects, and uses energy cost savings to repay the bonds.	http://deq.mt.gov/Energy/buildings/StateBuildings.asp
North Dakota	The North Dakota State Buildings Energy Conservation Program provides grants to state agencies for energy efficiency upgrades.	http://www.communityservices.nd.gov/energy/state-buildings-energy-conservation-program/
Oregon	The Oregon Department of Energy administers a State Energy Loan Program (SELP) through which state agencies can obtain low-interest loans for clean energy activities.	http://www.oregon.gov/ENERGY/LOANS/selphm.shtml

TABLE D.1 RESOURCES FOR FUNDING LBE PROGRAMS (cont.)

State or Title	Description	URL
Texas	The Texas SECO developed a guidebook for engineers as they complete Energy Assessment Reports as part of the project loan application. The LoanSTAR Guidelines document identifies policies to be followed in preparing project calculations and outlines the format for presenting energy efficiency projects for review.	http://www.seco.cpa.state.tx.us/l_s_guideline.htm
General Resources for Funding LBE Programs		
The Borrower's Guide to Financing Solar Energy Systems	This brochure provides an overview of financial assistance opportunities offered by the federal government and private lenders for the installation of on-site renewable energy systems.	http://www.nrel.gov/docs/fy99osti/26242.pdf
Choosing the Right Financing for Your Energy Efficiency and Green Projects with ENERGY STAR®	This chapter of <i>Energy Project Financing- Resources and Strategies for Success</i> (Thumann, A. and E. Woodroof.. Fairmont Press, Atlanta June 2008– Chapter 3 - by Zobler, N. and Hatcher, K.) provides a brief summary of key accounting principles and describes a variety of financing vehicles and funding sources available for financing state energy efficiency and renewable energy projects.	N.A.
Community Energy Financing	The Smart Communities Network provides information about financing opportunities, including federal and state resources, as well as a collection of relevant literature.	http://www.smartcommunities.ncat.org/municipal/financing.shtml
Companies Financing Solar, Wind, and Other Renewable Energy Systems	The California Energy Commission has compiled a list of private financiers for on-site renewable energy generation systems.	http://www.consumerenergycenter.org/
Database of State Incentives for Renewables (DSIRE)	DSIRE is a DOE-funded comprehensive source of information on state, local, utility, and selected federal incentives that promote renewable energy and energy efficiency. Information about the incentives contained in the DSIRE database is compiled from many different sources, including federal entities, contact with state energy offices, PUCs, and renewable energy organizations.	http://www.dsireusa.org/
DOE Financial Opportunities for States	DOE offers several programs to help state governments and organizations finance energy efficiency and renewable energy projects.	http://www1.eere.energy.gov/financing/states.html
<i>Easy Access to Energy Improvement Funds in the Public Sector</i>	This ENERGY STAR publication provides information to assist public entities in comparing various energy efficiency improvement funding mechanisms.	http://www.energystar.gov/ia/business/easyaccess.pdf
Energy Tax Incentives	The Tax Incentives Assistance Project, a collaborative of non-profit organizations, government agencies, and other stakeholders, provides consumers and businesses with information on incentives available through the federal Energy Policy Act of 2005.	http://www.energytaxincentives.org/
<i>EPA Clean Energy-Environment Guide to Action</i>	The EPA Clean Energy-Environment <i>Guide to Action</i> provides information on a range of funding and incentive strategies for developing clean energy policies.	http://www.epa.gov/cleanrgy/stateandlocal/guidetoaction.htm
Federal Grants	The Federal grants.gov program provides information on financial incentives available from 26 government agencies for a range of investments, including renewable energy generation.	http://www.grants.gov/
<i>Financial Incentives Brochure</i>	This brochure provides descriptions of the multiple opportunities for financing energy efficiency improvements in public buildings in Iowa.	http://www.energy.iastate.edu/news/downloads/FinancialIncent.pdf

TABLE D.1 RESOURCES FOR FUNDING LBE PROGRAMS (cont.)

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<i>Financing Energy Efficiency in Buildings</i>	This Guide was developed as part of the DOE Rebuild American Guide Series. It provides guidance on selecting financing mechanisms for energy efficiency in buildings, and includes numerous examples that cite cost savings.	http://eber.ed.ornl.gov/commercialproducts/finance.pdf
<i>Financing Energy Efficiency Projects</i>	This ENERGY STAR article describes how energy cost savings can be used to finance energy-efficiency investments.	http://www.energystar.gov/ia/business/government/Financia_Energy_Efficiency_Projects.pdf
<i>Funding and Savings for Energy Efficiency Programs for Program Years 2000 Through 2004</i>	This paper summarizes energy efficiency programs administered by California utilities. The purpose of the paper is to highlight recent trends regarding energy efficiency funding, savings, and cost-effectiveness of these programs.	http://www.fypower.org/pdf/CEC%20_Trends2000-04.pdf#search=%22cost%20new%20construction%20dollars%20per%20kwh%22
Funding Opportunities for Energy Efficiency, Renewable Energy and the Environment	The Center for Economic and Environmental Partnership, Inc. (CEEP) compiled a sample list of solicitations currently offered by foundations and public agencies to support research and implementation of energy efficiency, renewable energy, sustainable development and related environmental activities.	http://www.naseo.org/funding/November%202006%20CEEP%20Summary.pdf
<i>Guidelines for Cost-Effective Energy Management Improvement Projects</i>	This guidance document was developed by the Iowa Bureau of Energy Management to assist agency officials in determining whether a proposed energy efficiency project will produce enough savings to offset the costs of purchasing and implementing an efficiency improvement.	http://www.iowadnr.com/energy/ebank/files/costeffect2002.pdf
Handbook on Renewable Energy Financing for Rural Colorado	This handbook provides information on state and federal resources for financing renewable energy projects in Colorado. Many of the resources identified may be relevant to local governments outside Colorado.	http://www.colorado.gov/oemc/publications/handbook_rural_co.pdf
<i>How to Finance Public Sector Energy Efficiency Projects</i>	This guide addresses the special needs of public sector agencies such as city and county governments, public school districts, hospitals, and special districts, such as water and wastewater treatment districts. It discusses the criteria for evaluating the cost-effectiveness of energy efficiency projects, various funding options, and financing programs specific to public sector agencies.	http://www.energy.ca.gov/reports/efficiency_handbooks/index.html
Incentives for Geo-Exchange Systems	This Web site provides information on various federal and state incentives for geothermal energy systems available to local governments.	http://www.geoexchange.org/
Innovations in Renewable Energy Financing	This National Renewable Energy Laboratory paper provides information on new strategies for financing renewable energy projects, including REC sales.	http://www.usaee.org/usaee2007/submissions/OnlineProceedings/Innovations%20in%20Renewable%20Energy%20Financing%20_Cory_%20-%20FINAL.pdf
Iowa Technical Energy Analysis Guidelines	The Iowa Energy Bank provides technical and financial assistance for energy conservation improvements in public buildings. As part of the loan application process, a technical energy analysis must be performed on a building. Technical Energy Analysis Guidelines for this analysis provide a detailed description of the online submission procedure.	http://www.iowadnr.com/energy/ebank/files/guide2005.pdf

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<i>Life-Cycle Cost Guidelines</i>	This publication by the Iowa Department of Natural Resources is intended to assist engineers and energy managers in using life-cycle costing to conduct technical energy analyses in public facilities.	http://www.iowadnr.com/energy/ebank/files/lifecycle2002.pdf
LoanSTAR QuickCalcs Spreadsheets	Using the look-up data tables from the LoanSTAR Guidelines, these simple fill-in-the-blank spreadsheets can be used to determine and analyze projected energy consumption savings based on site- and measure-specific information provided by the user.	http://www.seco.cpa.state.tx.us/ls_guide_spreads.htm
Massachusetts Grants and Funding Opportunities	The Massachusetts State Sustainability Program provides a list of various funding opportunities. Included are federal, state, and private financing vehicles.	http://www.mass.gov/?pageID=eoe_eatopic&L=2&L0=Home&L1=Energy%2c+Utilities+%26+Clean+Technologies&sid=Eoeea
National Association of State Energy Officials (NASEO) Funding Opportunities and Resources	NASEO provides information about federal funding opportunities and other financial resources.	http://www.naseo.org/resources/funding/default.aspx
Resource Guide to Building Energy Management	This resource guide provides descriptions of the programs through which Iowa public agencies obtain technical and financial assistance in performing energy efficiency upgrades.	http://www.iowadnr.com/energy/ebank/files/greenbook.pdf
Technical Issues Concerning Third Party Financing for Renewable Energy	This Web site was developed by the Sandia National Laboratories to provide information on the relative benefits of different third-party financing models for purchasing renewable energy generation systems.	http://energy.sandia.gov/technicalissues.htm
Capital Budgets and Procurement Budgets		
Vermont	Vermont legislation requires the use of life-cycle costing for new construction and major renovations receiving state funding.	http://www.leg.state.vt.us/statutes/fullsection.cfm?Title=03&Chapter=045&Section=02291
Energy Performance Contracts and Lease-Purchase Agreements		
California	The CEC has compiled and regularly updates a directory of ESCOs. Though it is focused on ESCOs doing business in California, many are active in many parts of the country.	http://energy.ca.gov/2005publications/CEC-400-2005-001/CEC-400-2005-001.PDF
Colorado	The Rebuild Colorado Web site provides information on energy performance contracting, including sample documents and guidelines, and links to resources.	http://www.state.co.us/oemc/rebuildco/epc.htm
Iowa	The Iowa Energy Bank, an energy management program using energy cost savings to repay financing for energy management improvements, serves public and nonprofit Iowa facilities (public schools, hospitals, private colleges, private schools, and local governments).	http://www.iowadnr.com/energy/ebank/index.html
New Hampshire	The BECI program analyzes state buildings for energy and resource conservation opportunities to be funded with performance contracting.	http://nh.gov/oep/programs/energy/beci.htm
Virginia	This Virginia Department of Mines, Minerals, and Energy Web site provides information to state agencies on how to use energy performance contracts to finance energy-efficiency improvements.	http://www.dmme.virginia.gov/DE/StateAgencyProgs/performancecontracting.shtml

TABLE D.1 RESOURCES FOR FUNDING LBE PROGRAMS (cont.)

State or Title	Description	URL
ENERGY STAR Financing Energy Efficiency Projects	This article explains how the cost savings resulting from increased energy efficiency can be used to finance the equipment needed for improvements.	http://www.energystar.gov/ia/business/government/Financia_Energy_Efficiency_Projects.pdf
ENERGY STAR Innovative Financing Solutions	This EPA ENERGY STAR document provides guidance on financing for clean energy efficiency improvement projects.	http://energystar.gov/ia/business/government/FINAL_Paper.pdf
ENERGY STAR Manage Energy Uncertainty	This article describes how to obtain quick financing for energy efficiency projects.	http://ww.energystar.gov/ia/business/government/Hatcherarticle.pdf
ENERGY STAR Money for Your Energy Upgrades	This ENERGY STAR presentation provides an introduction to financing energy efficiency upgrades in the public sector.	http://www.energystar.gov/ia/business/Self_Guide_ES_Finance.pdf
Public Benefits Funds and Systems Benefits Changes		
Oregon	The State of Oregon offers Business Energy Tax Credits to the public sector and nonprofits via a "pass through" provision.	http://egov.oregon.gov/ENERGY/CONS/BUS/BETC.shtml
<i>EPA Clean Energy-Environment Guide to Action</i>	The EPA Clean Energy-Environment <i>Guide to Action</i> provides sections on using PBFs to fund energy efficiency and clean energy supply programs.	http://www.epa.gov/cleanrgy/stateandlocal/guidetoaction.htm
Revolving Loan Funds		
Iowa	The Iowa Alternate Energy Revolving Loan Program provides low interest loans to individuals and organizations that want to build alternate energy production facilities in Iowa.	http://www.energy.iastate.edu/funding/aerlp-index.html
New York	The New York Energy \$martSM Loan Fund program provides an interest rate reduction off a participating lender's normal loan interest rate for a term up to 10 years on loans for certain energy efficiency improvements and/or renewable technologies.	http://www.nyserda.org/loanfund/default.asp
Texas	The Texas LoanSTAR Program is a revolving loan mechanism for energy efficiency targeted for public buildings, including state agencies, school districts, and local governments.	<i>Program Site:</i> http://www.seco.cpa.state.tx.us/lr.htm
Direct Loans		
Vermont	The Vermont Economic Development Authority Direct Loan Program assists borrowers in financing fixed assets. Public and private entities can use these loans to pay for energy efficiency improvements. Borrowing caps are set at 40% of the total project cost, with a maximum loan of \$1.3 million.	http://www.veda.org/interior.php/pid/1/sid/1
Pension Funds		
<i>Apollo Washington "Policy Menu" Shoots for the Stars</i>	Washington's Union Square draws on state pension funds for financing energy efficiency retrofits.	http://www.sijournal.com/commentary/1512972.html