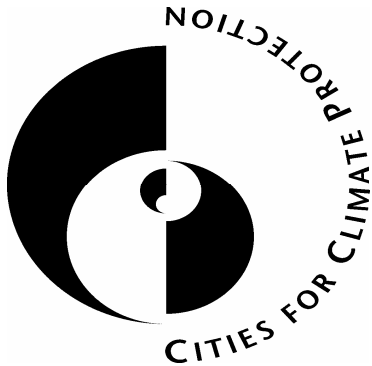




CACP & Portfolio Manager:

Complementary Tools for Climate Protection



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Presentation Overview

- Review of CACP
- Introduction to EnergyStar
- Introduction to Portfolio Manager
- Appropriate uses for CACP and Portfolio Manager
- Strategies for incorporating PM
- Techniques for streamlining data collection and input

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Clean Air & Climate Protection (CACP)

- Inventory annual energy use, emissions, & criteria air pollutants
- Quantify reduction measures
- Ideal for communities and local governments



- Community Analysis
- Community Measures
- Government Analysis
- Government Measures

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- **What is Energy Star?**
 - **Standard of energy efficiency**
 - **Joint program of DOE & EPA**
- **Applies to:**
 - **Products (50+ kinds)**
 - **Homes**
 - **Various categories of commercial, industrial, & municipal buildings**

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○ Energy Star for Buildings

- Rating of 1-100
- Based on:
 - Building characteristics
 - Energy usage
 - Climate data
 - Statistical model of similar buildings nationwide
- Rating of 50 = average
- Rating of 75 for EnergyStar label
- Rating of 63 for LEED EB



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Portfolio Manager (PM)

- Free, online software tool
- Tracks & measures energy efficiency of buildings
 - Bank/Financial Institutions
 - Courthouses
 - Hospitals
 - Hotels and Motels
 - K-12 Schools
 - Medical Offices
 - Offices
 - Residence Halls/Dormitories
 - Retail Stores
 - Supermarkets
 - Warehouses
 - Wastewater Treatment Plants
- Provides EnergyStar rating (1-100)





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Other Key Features of PM:

- Track multiple energy and water meters for each facility
- Benchmark your facilities relative to their past performance over any 12-month periods
- Monitor energy and water costs
- Share your building data with others inside or outside of your organization
- Enter operating characteristics, tailored to each space use category within your building
- Calculate emissions
- Track completed projects

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- Key Uses for Portfolio Manager:

- Manage Energy and Water Consumption for all Buildings
- Rate Building Energy Performance
- Set Investment Priorities
- Verify and Track Progress of Improvement Projects
- Earn points toward LEED EB Rating
- Gain EPA Recognition





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Major Differences Between Software Products

Characteristics	Portfolio Manager	CACP Software
Areas of Energy Use	Buildings	All Sectors
Type of Analysis	Quantitative & Comparative	Quantitative
Period of Measurement	Month or Billing Period	Year
Data period	Historical	Historical & Forecast



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Key Features of Software Products

Features	PM	CACP
Measure & Analyze Building Energy Use	✓	✓
Track Vehicles, Transit, Waste, and Community Sectors		✓
Comparative Ranking of Building Efficiency	✓	
GHG Emissions from Building Energy Consumption	✓	✓
Track energy costs	✓	✓

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Portfolio Manager

- Focus in on specific buildings & time periods.
- Compare buildings



CACP

- Get a bird's eye view of energy use & emissions throughout your community
- Forecast future emissions & reductions from projects





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Incorporating Portfolio Manager (PM) Into Your Emissions Inventory

1. Strategies for using PM
2. Transferring data between programs
(Importing & Exporting)
3. Streamlining data collection process



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1. **Strategies for Incorporating PM Into Your Climate Protection Work**

- Milestone 1: Supplement your CACP inventory with a more in-depth analysis of buildings
- Milestone 2: Determine realistic goals for particular buildings as part of your overall target
- Milestone 3: Identify and discuss key facilities needing attention
- Milestone 4: Prioritize buildings to focus on using EnergyStar ratings
- Milestone 5: Track impact of building improvements



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2. Transferring data between programs (Importing & Exporting)

○ Importing:

- EnergyStar will import your initial data for 10+ buildings
- CACP can import; best for large number of buildings (i.e. 50+)

○ Exporting: Both programs can export

○ Problem: CACP uses annual, PM uses monthly

○ Solutions:

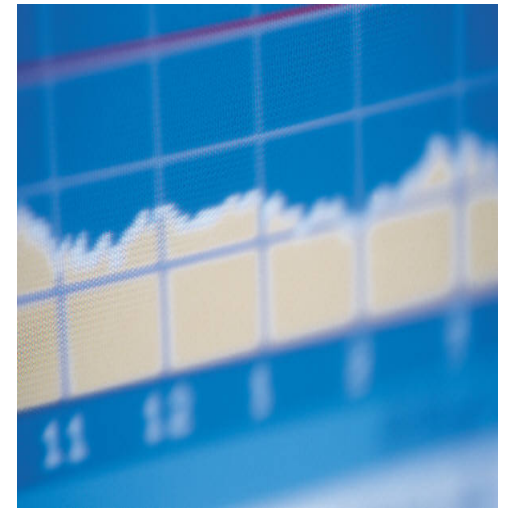
- Export from PM and sum monthly data in Excel
- Input data manually; data *collection* is 90% of work

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3. Streamlining data collection process

- Collect data by month or billing period
- Collect building characteristics and use information while getting energy use data
- Choose the same baseline year
 - Portfolio Manager can accommodate a baseline period of any 12 consecutive months
 - CACP designed for analysis by calendar year



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3. Streamlining data collection

- Building Characteristic data:
 - Square footage
 - # Workers / students
 - # computers
 - HVAC details (% A/C, % heated, mech ventilated)
 - Operating Hours / week, Months / year
 - Year Built
- Requirements Differ by building type
- Option to use default values if data unavailable
- Create an account and identify data needed 1st!



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How to Get Started

- Join the EPA's *EnergyStar / Community Challenge* (optional)

<http://www.energystar.gov/>

- Create a **free** Portfolio Manager account at

<https://www.energystar.gov/istar/pmpam/>

- Start collecting data!



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Questions?



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