

FACILITY CONDITION ASSESSMENT & BUDGETING SYSTEM

CAMPUS WIDE FACILITYFORECAST®
PORTFOLIO @ A GLANCE®
PROJECT @ A GLANCE®

FACILITYFORECAST® OVERVIEW

FacilityForecast® Software is a unique facilities condition assessment and budgeting system designed to forecast and manage long-term capital replacement and operating expenses, depreciation expenses, and income. The system efficiently and effectively manages expense data for the single stand-alone facility or for complex properties, such as campus-style facilities or multiple-site real estate portfolios. Reports are designed for use at all levels of management, "from the boiler room to the board room".

FACILITYFORECAST® - "THE NEED"

Managers are challenged with volumes of data to process and analyze when evaluating multiple buildings or a portfolio of properties. Prior to FacilityForecast®, establishing accurate 2- to 30-year capital replacement and operating expense budgets took an enormous amount of time, and was often a highly subjective process. Most find the process too time consuming, unreliable, and thus, the long-term capital replacement budgeting process has not been used effectively. This has resulted in management relying on short-term budgets rather than complete cost information.

Current spreadsheet software and budgeting tools fall short of today's need for accurate forecasting of critical capital replacement and operating expenses. CFOs, property managers, facility engineers, investors, and owners all suffer from the time-consuming chore of creating these budgets, exacerbated by limited tools and resources.

zumBrunnen, Inc., having provided facility condition assessment services for 25+ years, has developed the FacilityForecast® Software System to provide accurate and trusted information in an easy to learn and use software application. This tool can be readily applied to all industries accountable for managing buildings, as well as processes and systems.

FACILITYFORECAST® SYSTEM SPECIFICATION

- □ Developed in C++ Software
- □ Compatible with Microsoft Windows operating systems
- **□** Desktop Application with Online Help
- **□** Downloadable from the Internet

FACILITYFORECAST® CUSTOMIZED DESIGN

FacilityForecast® is specifically designed for owners, facility engineers, and property managers to maintain and keep data current to meet their analysis and reporting needs. Markets serviced by FacilityForecast® include the following:

Senior Living	Religious	Industrial Complexes	Office
Healthcare	Resorts	Hospitality	Institutional
Education	HOA	Golf Courses	Retail
Restaurant Chains	Multi-Family	Condominiums	Government
Sport Facilities	Entertainment	Mixed-Use	Private Clubs

FACILITYFORECAST® FEATURES and BENEFITS

- □ Minimize data entry time by up to 70%
- □ Mitigate data entry errors by up to 90%
- Mitigate potential for incorrect tabulations and calculations
- □ 8 pre-formulated forecasting methods pinpoint replacement schedules
- □ Minimize due-diligence liability with comprehensive and accurate data
- □ Ensure amortization of all planned expenses and income
- □ Ensure adequate reserves for high-cost years and the unexpected
- Standardize corporate reporting formats and data
- □ Reduce costs through collective purchasing power and master agreements
- □ Master strategic planning and create alternative models
- Provide concise reports and drill-down to critical data
- Develop reliable benchmark data
- □ EZ annual data and budget review and updating

FACILITYFORECAST® TABLES AND CHARTS

Tables and charts compile a mountain of data into precise and revealing data reports, which allow you to pinpoint "critical issues". From here, drill-down to supporting data in the budget reports. These table and chart reports allow you to filter and select various options, including the term of the reports, amortization term, inflation and interest rates, expense classification, and budget mix.

On the following pages are sample tables and charts of:

- □ Individual Budget Report
- □ Portfolio @ A Glance® & Budget Comparison
- □ Annual Cost Per Unit & Square Foot
- □ Cost Category & Budget Totals
- **□** Facility Condition Index
- **□** Reserve Funding Plans

INDIVIDUAL BUDGET REPORT

Specifically, what are the capital replacement needs for each building or property?

Individual budget reports are provided for the various components of a subject property; such as a budget for each building, department, or for FF&E, an assemblage of equipment or manufacturing processes, or other specified budget subjects.

Report Features and Options:

- > Item Description & Comments
- **Begin & End Dates**
- > Effective & Remaining Useful Life
- Quantity & Unit Pricing
- > Filter By Item Classifications
- > Specify Reporting Terms In Years
- > Filter By Cost Categories
- Generate Reports By Any Combination Of Budgets
- > Photo Reports

- Specify Pricing Method For Each Item
- Select Forecast Methods: Over 10
 Pre-Formulated Methods To Tie
 Each Budget Item To Your Business
 Model
- > FCI: Percentage Of Replacement
- Specify Various Inflation And Interest Rates
- > Import/ Export Data: Excel

Table VII: Individual Budget for a Building FacilityForecast System - [DEMO_SampleSeniorLiving: Budget Annual Report- B Apartme ₩ all 🗰 EUL Quantity Item Class Catg. Item Description Unit Cost Replace unit entry hardware \$250.00 \$17,500 Vertical Circulation \$35,000.00 \$70,000 \$70,000 Bevators - 1 door, rebuild/upgrade 1983 2 | 68 \$70,000 |Contract | ICAP Exterior Paint and Caulk Caulk brick expansion joints 03,10 Service and purchase fire extinguishers Service10 lb. fire extinguishers 0310 1983 \$12.00 \$228 In-house 1996 12 ea \$15.00 \$180 In house \$180 In-house In-house In-house \$50.00 8174 9174 \$874 Microwaves Refrigerators -house Stove/ovens \$400.00 \$432 \$535,500 \$535,500 Unit heat pumps, average cos 04.03 \$500.00 \$500 \$600 1933 25 1 00 \$10,000.00 \$10,000 Contract CAP \$10,000 \$10,000 Common Area Floor Covering \$44,000 Common Area Wallcovering Replace common area VVIC 1997 10 1 kg \$44,000.00 \$44,000 Contract CAP \$44,000 \$44,000 4,200 81 \$2,520 25 \$0.60 Acoustical celling tile replacemen 05.04 Interior Paint Paint doors, trim, ceilings commo 05.04 1997 10 \$22,000.00 \$22,000 Contract \$22,000 \$22,000 Unit Refresh Unit refresh: carpet, pad, vinyt, paint,, counter tops, misc. 05.06 1983 70 88 \$2,600.00 \$182,000 Contract CAP \$26,008 \$26,024 \$26,020 \$26,008 \$25,996 \$130,056 \$702,834 \$37,739 \$963,327 \$29,402 \$29,401 \$169,450 1 33% 4 33% 31 87% 4.74% Types: Exp. Classes: All

We recommend listing every item, regardless of remaining life to ensure all costs are funded; as budgets are updated year-to-year, new items do not have to be identified and added.

SUMMARY REPORTS

Individual budget reports are compiled into a variety of summary reports. The summary tables and charts detailed below demonstrate how to capture and collate a "mountain of data" into precise and meaningful analytical reports.

PORTFOLIO @ A GLANCE® & BUDGET COMPARISON

Envision being able to see your entire portfolio profiled over any specified budget term, say 20, 30 or more years. What a powerful presentation and analysis tool. Within seconds, you can analyze and see the cost needs of either a single building, any combination of buildings, or an entire portfolio! Data is best viewed initially in a chart profile of the entire portfolio using Portfolio @ A Glance®. From here, using the Comparison Report, you can drill-down to a select building profile chart or budget table report.

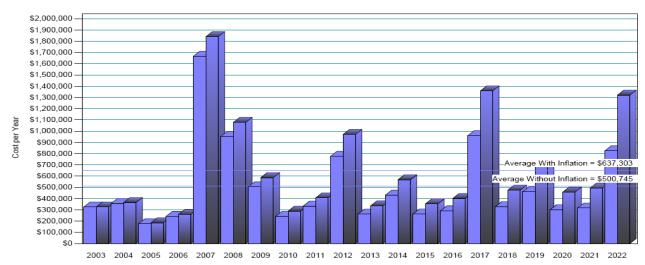
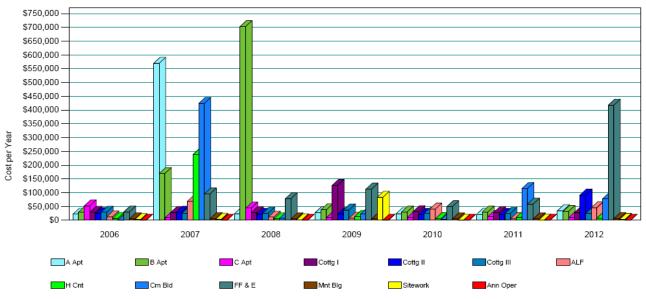


Chart I-B.01: Reserve Budgets - Profile for All Buildings (or Properties)





You gain a "distinct advantage" when using benchmark reporting techniques to pinpoint your future costs and problems areas, and when developing an exit strategy!

ANNUAL COST PER UNIT & SQUARE FOOT

Am I charging enough? What is my ROI?

Total unit costs must be identified to calculate ROI. To evaluated and understand total costs, both "per unit" and "per square foot" cost analyses are necessary.

Table II-A: Annual Reserve per Unit for Each Building (or Property)

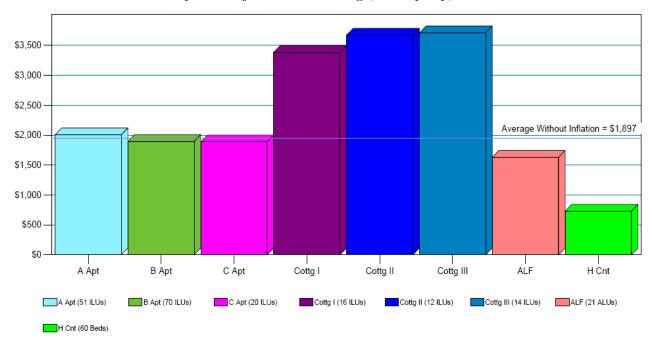
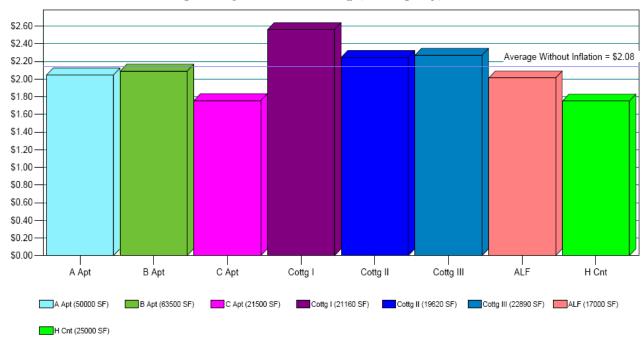


Table II- B: Annual Reserve per SF for Each Building (or Property)



With accurate unit cost data, you only need "grade school math" to calculate ROI!

COST CATEGORY & BUDGET TOTALS

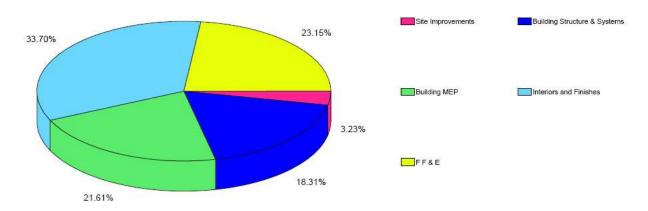
How do I get more mileage out of my dollar?

The ability to combine and view multiple building or property budgets by cost categories and budget totals over any combination of years simplifies and empowers the purchasing process. This strengthens your negotiation position resulting in lower operating expenses and improved quality.

Table III: Cost Category Totals for Each Building (or Property)

	1		_											ĺ
		Stework	FF & E	A Apt	B Apt	C Apt	Cottg I	Cottg II	Cottg III	ALF	H Cnt	Cm Bld	Mnt Blg	Division Total
ense														
02.01	Landscape and Hardscape	\$20,000												\$20,00
02.02	Irrigation	\$3,000												\$3,00
02.03	Paving	\$120,000												\$120,00
02.04	Site Concrete Retaining Walts	\$32,500 \$40,000												\$32,50 \$40,00
	-													
02.06	Site Ralls, Fencing, and Gates	\$15,000												\$15,00
02.07	Site Lighting	\$10,800												\$10,80
02.08 02.09	Storm Drainage Site Utilities	\$20,000 \$12,000												\$20,00 \$12,00
02.09	Signage	\$12,000												\$12,00 \$50,00
03.04	Roofs and Moisture Protection Systems	***		\$200,725	\$97,225	\$2,462	\$88,080	\$69,140	\$93,590	\$29,289	\$49,275	\$119.875	\$200	\$749.86
03.04	Hoors and Moisture Protection Systems			\$200,725	997,225	\$2,462	\$88,080	\$69,140	983,580	\$25,285	\$45,275	\$119,875	\$200	\$743,86
03.05	Exterior Finish and Wall Systems			\$1,000	\$1,500		\$62,400	\$46,800	\$54,600	\$5,000	\$500	\$5,000		\$176,800
03.07	Doors, Windows, and Hardware			\$14,157	\$21,700	\$5,000	\$15,742	\$11,616	\$13,275	\$4,200	\$1,386	\$2,000		\$89,076
03.08	Vertical Circulation			\$82,410	\$82,000	\$41,000					\$65,340	\$66,000		\$336,750
03.09	Exterior Paint and Caulk			\$13,345	\$17,700	\$6,400	\$33,600	\$25,200	\$29,400	\$6,900	\$7,355	\$33,000	\$3,000	\$175,900
03.10	Specials			\$1,440	\$540	\$450	\$11,243	\$8,613	\$10,389	\$450	\$450	\$252		\$33,826
03.11	Balconies, Breezeways and Related Rails						\$2,800	\$5,600	\$7,000					\$15,400
03.12	Appliances			\$58,528	\$74,265	\$32,285	\$33,239	\$26,128	\$29,668	\$1,900				\$256,013
04.01	HVAC			\$318,950	\$563,475	\$72,700	\$17,712	\$13,791	\$16,630	\$187,168	\$83,850	\$625,200		\$1,899,476
04.02	Plumbing and Plumbing Fixtures			\$9,800	\$11,850	\$3,750	\$14,400	\$10,800	\$12,600	\$22,700	\$22,350	\$54,350		\$162,600
04.03	Fire Sprinkler System			\$1,340	\$2,000	\$2,000				\$2,000	\$660	\$2,000		\$10,000
04.04	Electrical			\$6,700	\$10,000	\$7,500	\$3,440	\$3,360	\$2,870	\$12,000	\$5,900	\$40,000		\$91,770
05.01	Common Area Floor Covering			\$88,000	\$88,000	\$52,000				\$7,000	\$10,000	\$150,000		\$395,000
05.02	Common Area Wallcovering			\$88,000	\$88,000	\$5,200				\$44,000	\$44,000	\$150,000		\$419,200
05.03	Common Area Cellings			\$2,340	\$2,520	\$900				\$900	\$2	\$34,000		\$40,662
05.04	Interior Paint				\$44,000	\$25,000				\$25,000	\$22,000	\$70,000		\$187,000
05.06	Unit Refresh			\$349,691	\$519,892	\$149,189	\$457,690	\$342,143	\$397,972	\$60,000	\$57,000			\$2,333,576
07.01	Ritchen & Laundry Equipment		\$349,684										\$100,000	\$449,684
07.02	Furnishings		\$700,000								\$100,000			\$800,000
07.03	Maintenance & Mechanical		\$150,000											\$150,000
07.04	Vehicles		\$346,000											\$346,000
07.05	Communication and Security Systems		\$409,000											\$409,000
07.06	Office Systems		\$164,000											\$164,000
	Expense Total Percentage of Replacement Cost	\$323,300 38.67%	\$2,118,684 42.67%	\$1,236,426 46.78%	\$1,624,666 18.53%	\$406,836 63.52%	\$740,346 241.37%	\$563,191 22.87%	\$667,994	\$408,507	\$470,068	\$1,351,677	\$103,200 99170335008600004	\$10,014,894 63.739
	rerustitage of Replacement Cost	38.67%	42.6/%	46.78%	18.53%	63.52%	241.37%	22.87%					99170333008600004	65.73%
See Charls III-A, III-B														

Chart III-A: Cost Category Budget Totals



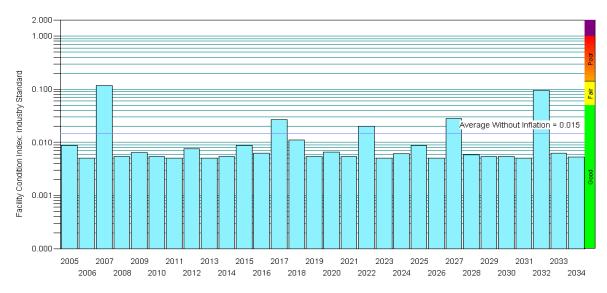
Knowledge is power, when purchasing and scheduling work in a "collective manner" you reduce costs and improve quality!

FACILITY CONDITION INDEX

How do we maximize our investment?

Indexing expenses to replacement costs establishes a building's condition. The ability to index and model brings clarity to difficult decisions, whether to repair, renovate, reposition or replace a building or system.





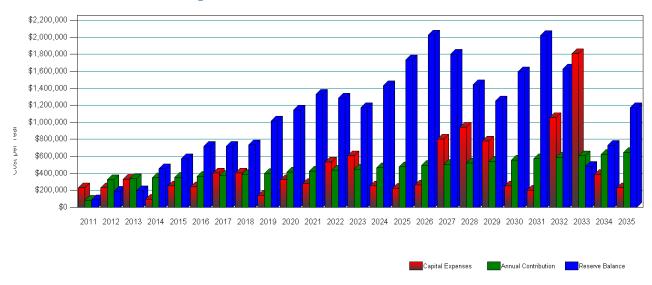
The utilization of index analysis tools helps to ensure the best decisions are made!

RESERVE FUNDING PLANS

Annual expenses vary, so what are the reserve funding (sinking fund) requirements?

Once annual expenses are identified, the annual contribution to reserve funds can be calculated and adjusted for inflation and interest earnings. Having adequate funds to meet peak years is paramount; it is just as important not to tie up valuable capital by over-funding.

Chart V-D Baseline Funding



Profit margins are maximized when capital is properly allocated!