

Reducing cost, carbon, and risk

Context: \$60M energy budget | 27M sqft | 400 Bldgs

#### Traditional strategy

Retrofits w/ big capital investments

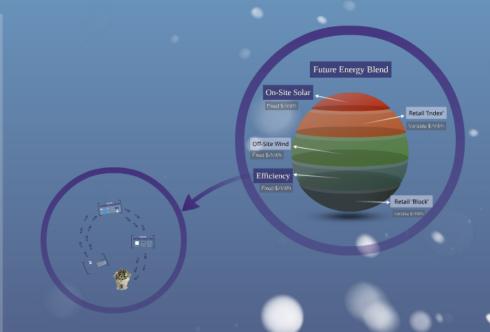
Monthly bills drive decision-making

Supply: traditional retail w 1-3 year contracts

#### Game Change strategy

Actionable data drives decision-making

Operational efficiency prioritized





# Game Change

### DGS Energy Strategy

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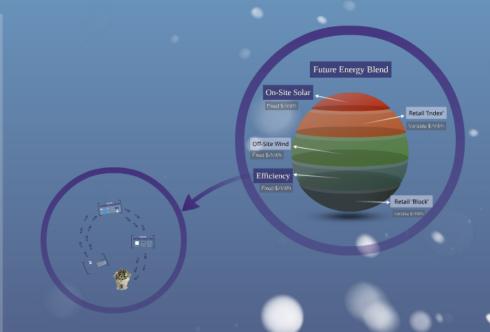
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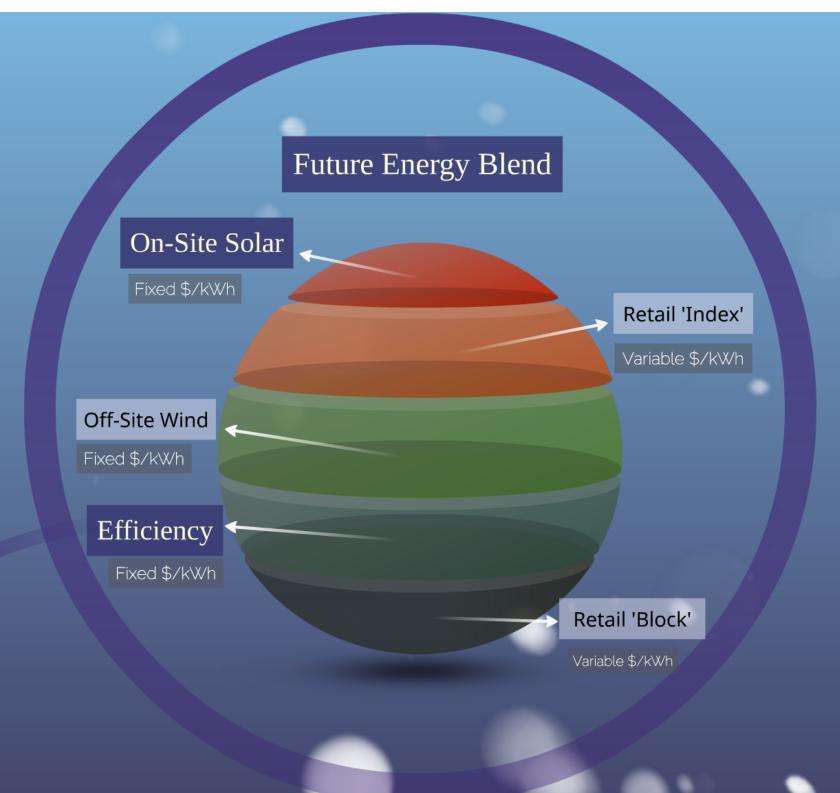
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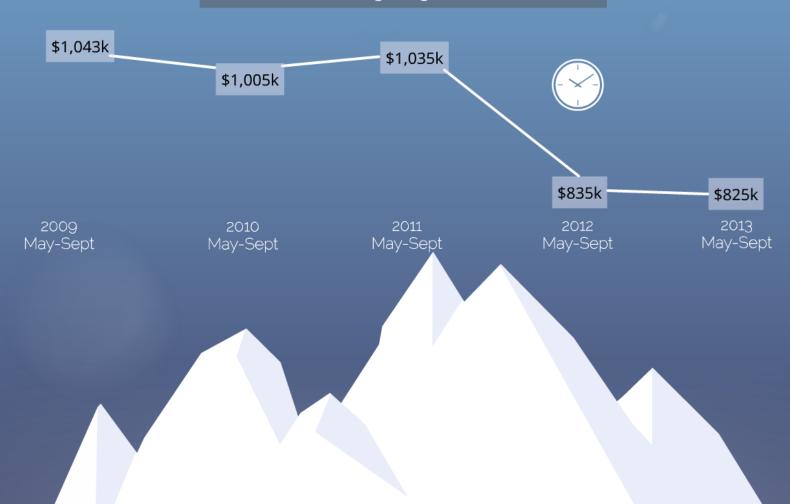




# One Judiciary Square Retrofit: Eliminates Mountain of Energy Waste

New Heating & Cooling Controls

HVAC scheduling began in March 2012



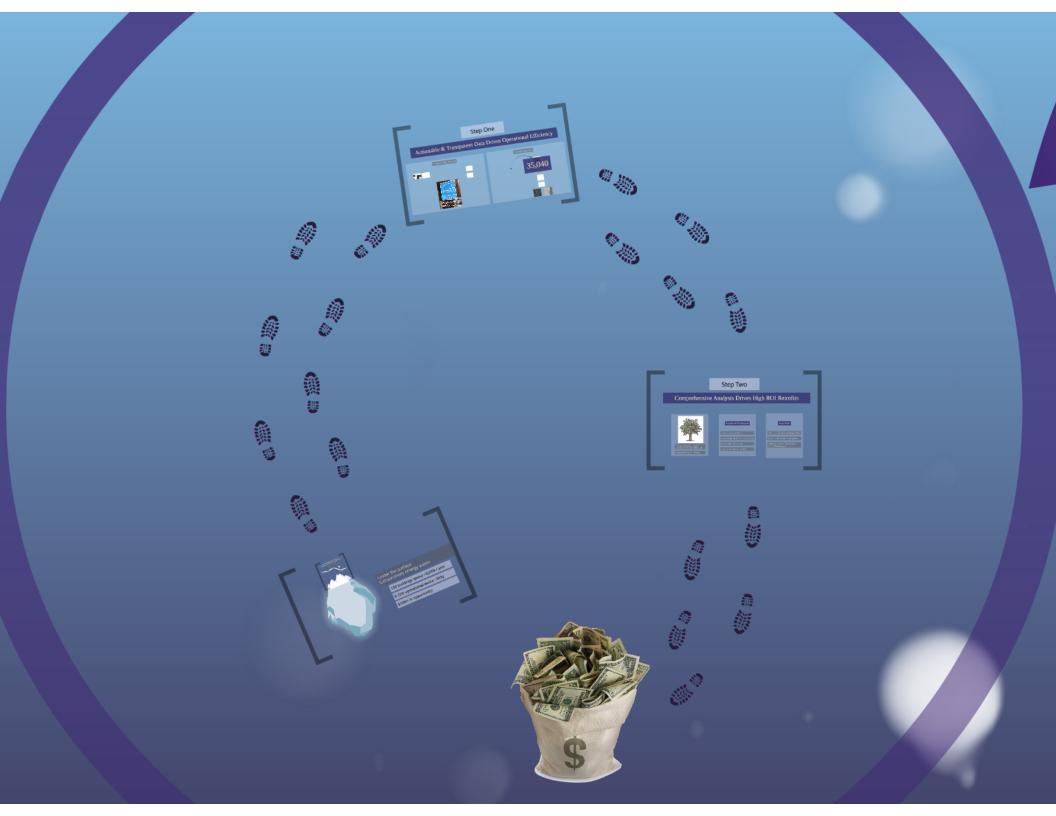


### Under the surface: Extraordinary energy waste

150 buildings spend >\$200k / year

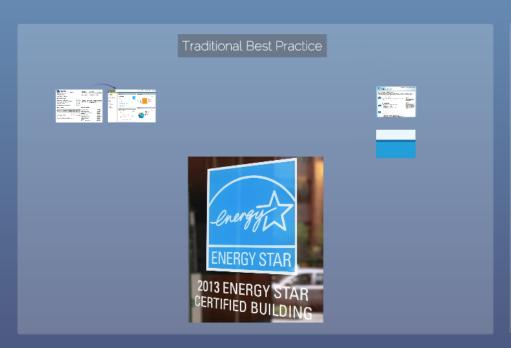
5-25% operational waste / bldg

\$10M+ in opportunity



## Step One

### Actionable & Transparent Data Drives Operational Efficiency







202-872-3432

202-872-2369

202-872-4641

202-265-7177

1-800-424-8028

Habla Español -7am-8pm  $Miss\ Utility \hbox{(call before you dig) -Available Anytime}$ Meter Summary

Mater Reading Information						
Meter No.	Description	Previous Reading	Present Reading	Multi- plier	KWH Used	
KZD341208091	Kilowatt Hour Meter	9043	11139	160	335360	
OFF PK KWH D 11	Off Peak	4652	5770	160	178880	
INT PK KWH D 08	Interm Peak	2123	2596	160	75680	
ON PEAK KWH D 05	On Peak	2267	2771	160	80640	
Total KWH Billed:	335200	No	n-Reside	ntial M	PS-GT	

The present reading is an actual reading.

Your next scheduled meter reading is August 28, 2012.

Life Threatening Emergencies -Available Anytime

Toll-Free Number(within our service territory) -7am-8pm

Hearing Impaired (TTY) -7am-8pm

#### **Account Summary**

Prior Balance Pepco	\$11,394.25		
Payments Received Pepco	\$0.00		
Balance Forward Pepco	\$11,394.25		
Current Charges This Period Pepco	\$12,119.18		
Total Pepco	\$23,513.43		
Prior Balance WGES	\$65,540.26		
Payments Received WGES	\$35,057.56 CR		
Balance Forward WGES	\$30,482.70		
Current Charges WGES	\$34,018.87		
Total WGES	\$64,501.57		
TOTAL AMOUNT DUE	\$88,015.00		

BOTH PEPCO AND YOUR ELECTRIC ENERGY

SUPPLIER.

Page 1 of 3



### Traditional Best Practice









#### Set up a Property: Let's Get Started!

Properties come in all shapes and sizes, from a leased space in a large office building, to a K-12 school with a pool, to a large medical complex with lots of buildings. Since there are so many choices, Portfolio Manager can walk you through getting your property up and running. When you're done, you'll be ready to start monitoring your energy usage and pursue recognition!



#### Your Property's Primary Function

We'll get into the details later. For now, overall, what main purpose does your property serve?

Office

Learn more about primary functions/property types.



Tip

To set up a property, you'll need information such as gross floor area and operating hours.

. . . . . . . . . . . . . . .



Tip

Not sure what kind of property you are?
Because we focus on whole building
benchmarking, you want to select the
property type that best reflects the activity
in the majority of your building. Don't
worry if you have other tenants with
different business types, just select the
main activity.

. . . . . . . . . . . . . . . .



#### Your Property's Buildings

How many physical buildings do you consider part of your property?

- None: My property is part of a building
- One: My property is a single building
- More than One: My property includes multiple buildings

How many?



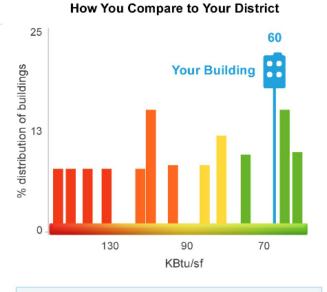
#### Your Property's Construction Status

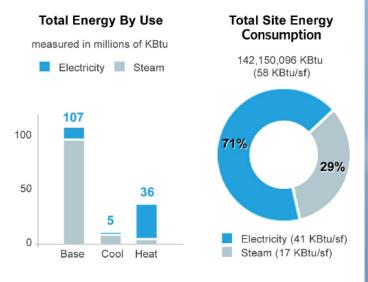
Is your property already built or are you entering this property as a construction project that has net yet been completed?

- Existing: My property is built, occupied and/or being used. I will be using Portfolio Manager to track energy/water consumption and, perhaps, pursue recognition.
- Design Project: My property is in the conceptual design phase (pre-construction); I will be using Portfolio Manager to evaluate the energy efficiency of the design project

#### **Annual Site Energy Consumption**





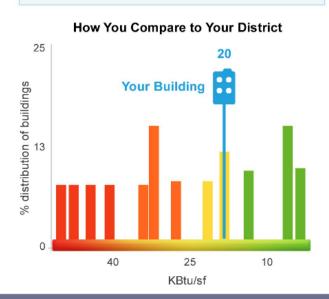


#### **Total Carbon Footprint:**

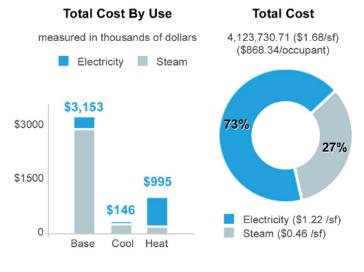
27,109,373 lbs/year

The total building energy is converted to one consistent unit (Btus) to allow for comparison with other buildings. Display of carbon emissions accounts for the environmental impact of the site energy used and considers the source fuel for electricity.

#### **Annual Carbon Emissions**



#### **Total Annual Energy Cost**



### Traditional Best Practice











## The DGS Approach











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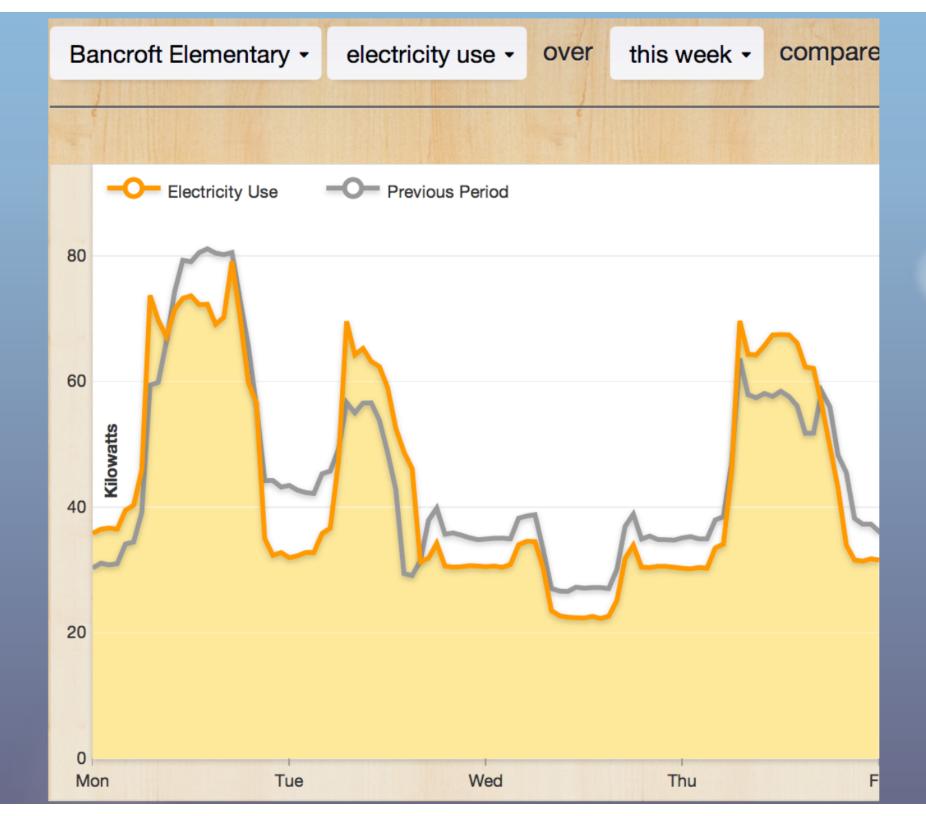




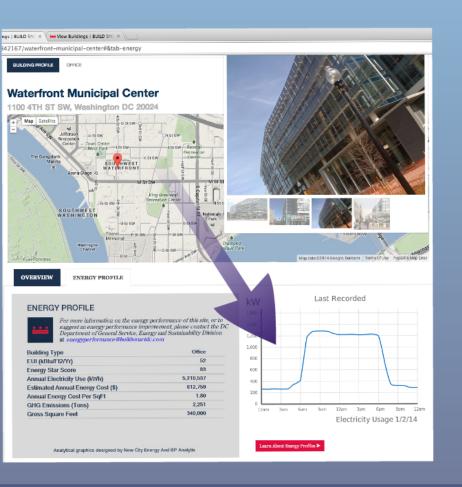


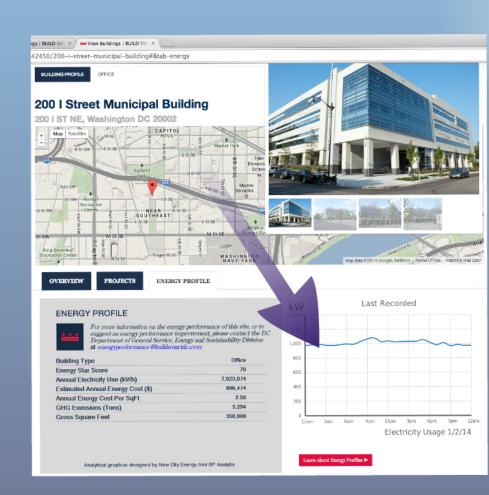












## Step Two

# Comprehensive Analysis Drives High ROI Retrofits









Finite available capital makes prioritization of investments critical.

'Doing everything' isn't a strategy

# Analysis & Prioritization

Leave no stone unturned

Invest in high-quality up-front analysis

Standardize data capture

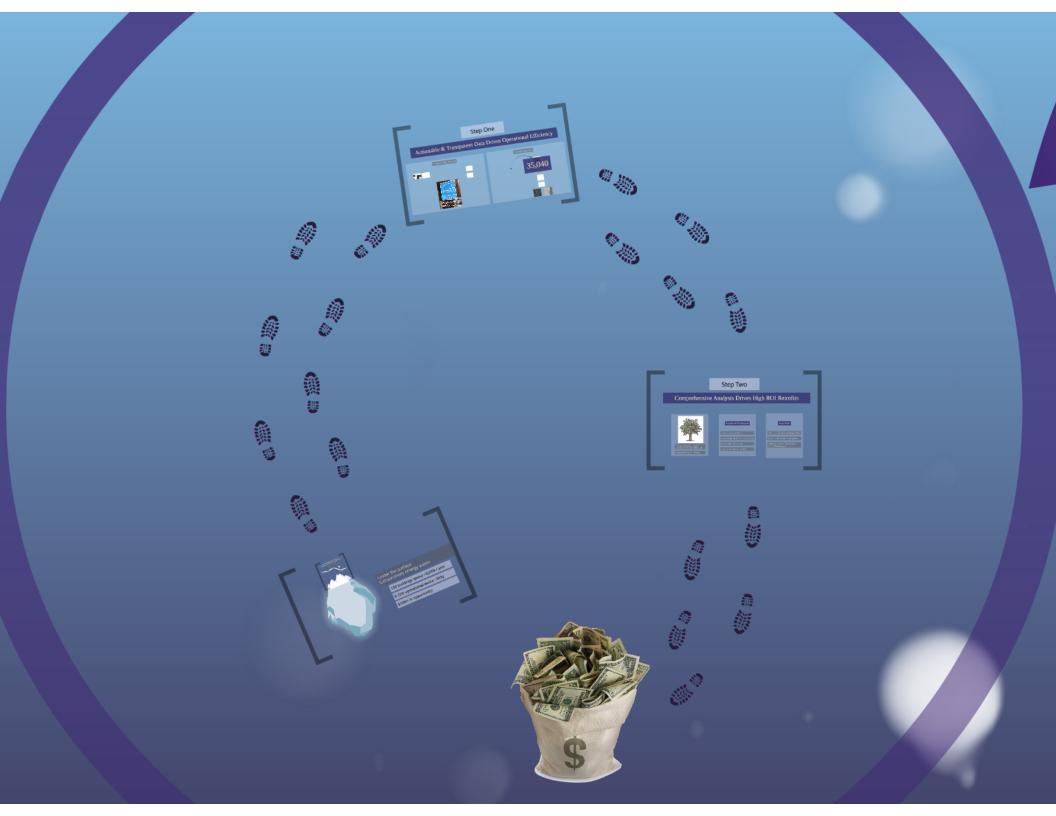
Learn to say 'we can't do that'

### Smart Roofs

Often ignored assets with huge value

100s of roofs scored for all options

Massive progress made towards Game Change goals





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