



## **Meeting Agenda** (Conference call in details listed below)

8 November 2018

Colorado Energy Office – Main Conference Room

1580 Logan St., Suite 100, Denver, CO 80203

<b>9:30 – 10:00</b>	<b>Networking</b>
<b>10:00</b>	<b>ESS Participants Call-In</b>
<b>10:00 – 10:15</b>	<b>Welcome &amp; Introductions.</b> Food for thought: Your district's interest/ involvement in Federal, State, or Local grant, partnership, or support programs?
<b>10:15 – 11:00</b>	<b>CEO Updates on ESS, Funding, EPC, ReNew Our Schools – Anna Kelly and Michael Turner</b>
<b>11:00 – 11:45</b>	<b>USGBC Updates – Patti Mason (LEED, Mesa Schools – Eric Anderson: recipient of Center for Green Schools Scholarship)</b>
<b>11:45 – 12:05</b>	<b>Lunch – Compliments of the Energy Services Coalition</b>
<b>12:05 – 1:05</b>	<b>Energy Performance Contracting – Carl Hurst, Energy Services Coalition &amp; Mirka della Cava, Colorado Energy Office</b>
<b>1:05 – 1:15</b>	<b>Break</b>
<b>1:15 – 1:45</b>	<b>Colorado Department of Education</b>
<b>1:45 – 2:00</b>	<b>CASDEM Business</b>

Please RSVP to the calendar invite, and please indicate whether you plan to participate in person or via conference call

**Conference Call #: 720-386-9023 Toll Free: 1 800-356-8278 Access Code: 981771**

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# *Energy Savings for Schools*

CASDEM

Nov 2018

# Colorado Energy Office

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## Overview

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### Our Mission

To deliver cost-effective energy services and advance innovative energy solutions for the benefit of all Coloradans.



Low Income &  
Residential Energy  
Services



Commercial &  
Industrial Energy  
Services



Transportation  
Fuels &  
Technology



Public Affairs



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Energy Office

# *Energy Savings for Schools*

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## *Why this Program Exists*

➡ Statutory requirements

➡ K-12 schools spend more money on energy than computers and textbooks combined

➡ Average age of school buildings = 42 years

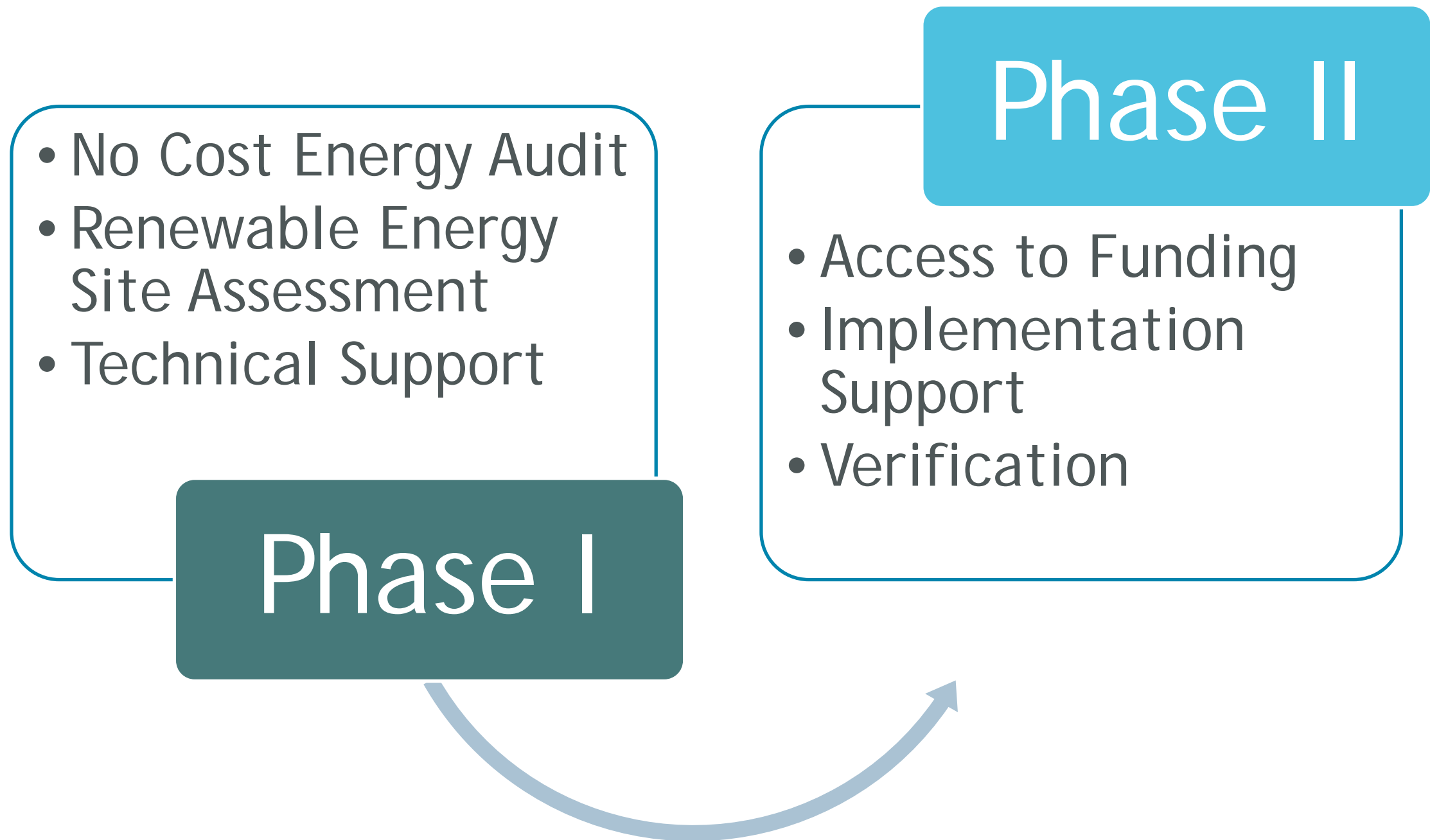
➡ K-12 schools waste 30% of energy purchased



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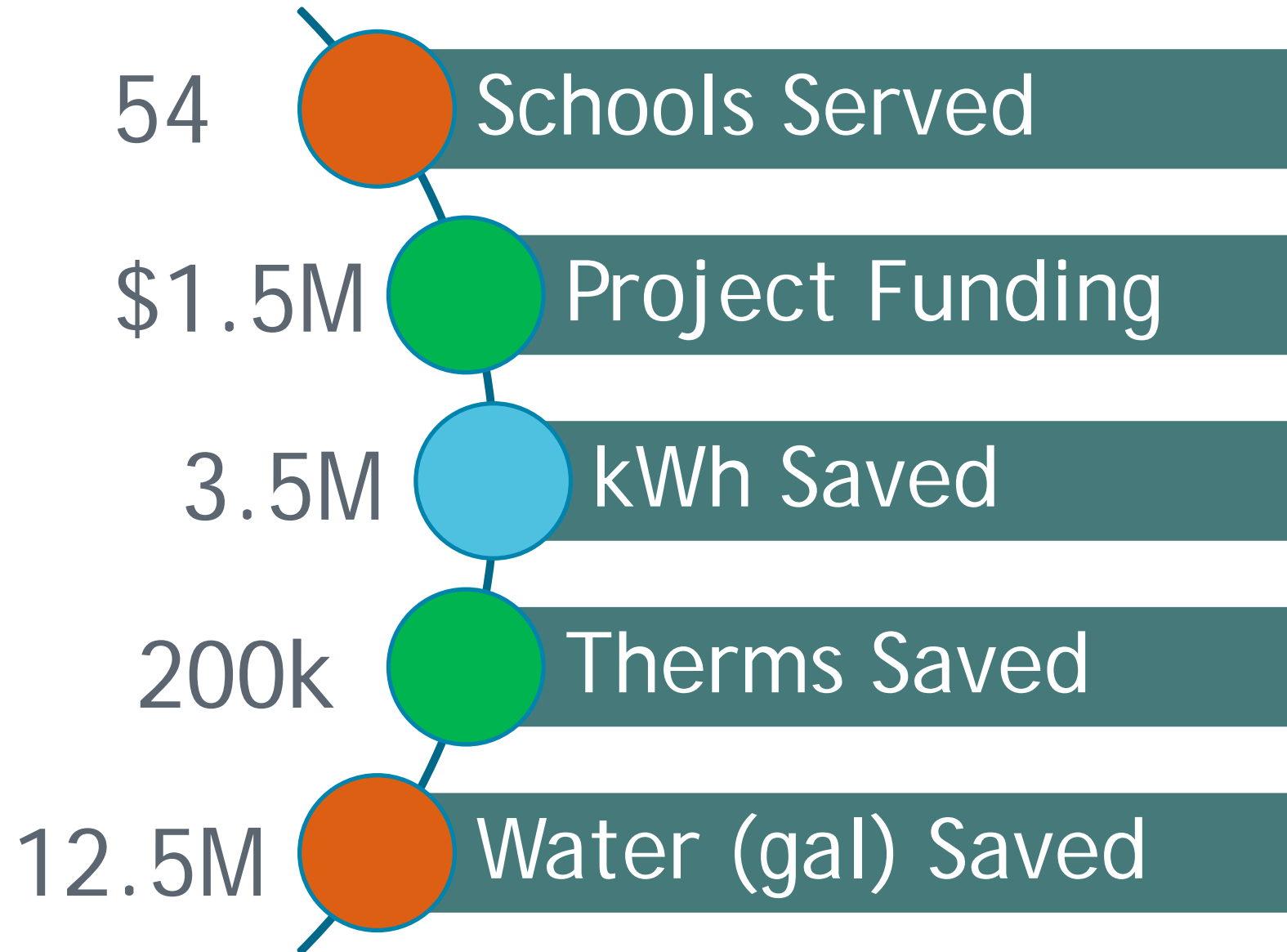
# *Previous Program Design*

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# *Impact on Colorado*

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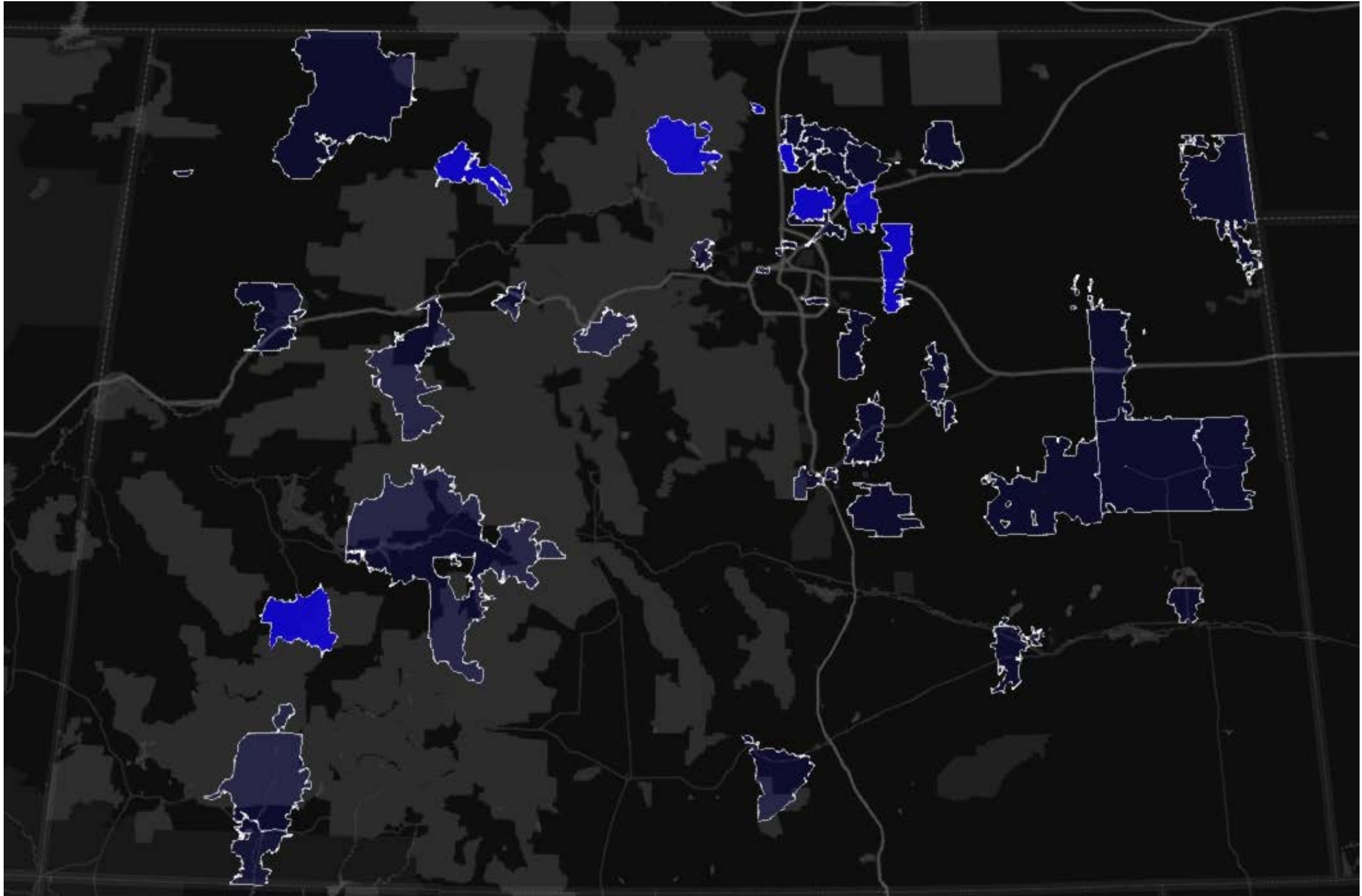
Successes and Challenges



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# *Geographic Distribution*

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# The Problem(s)

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*Unequal Funding*

\$1.5M  Project Funding

92% of \$\$\$\$ → 10% of participants

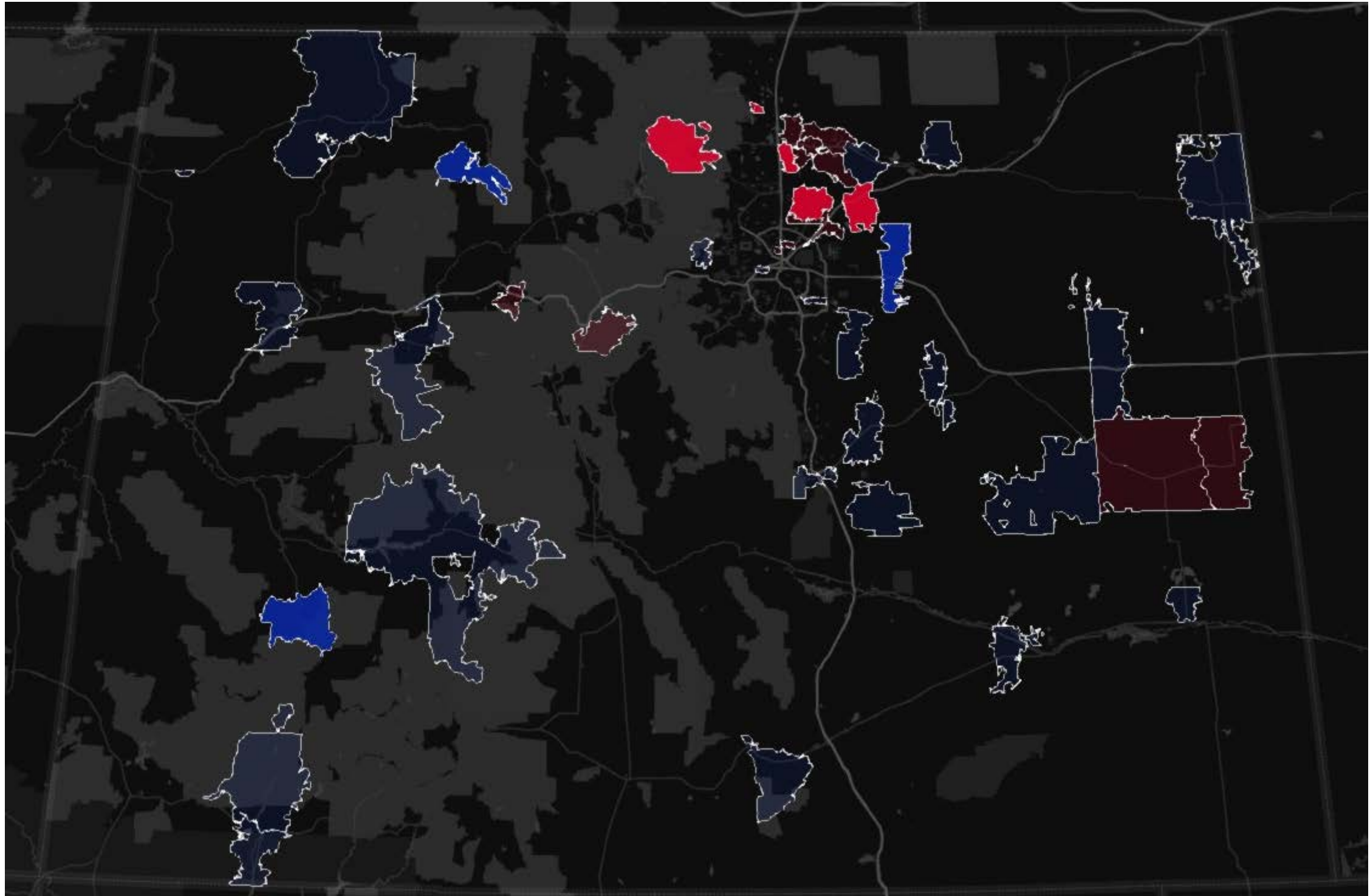


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# *The Problem(s)*

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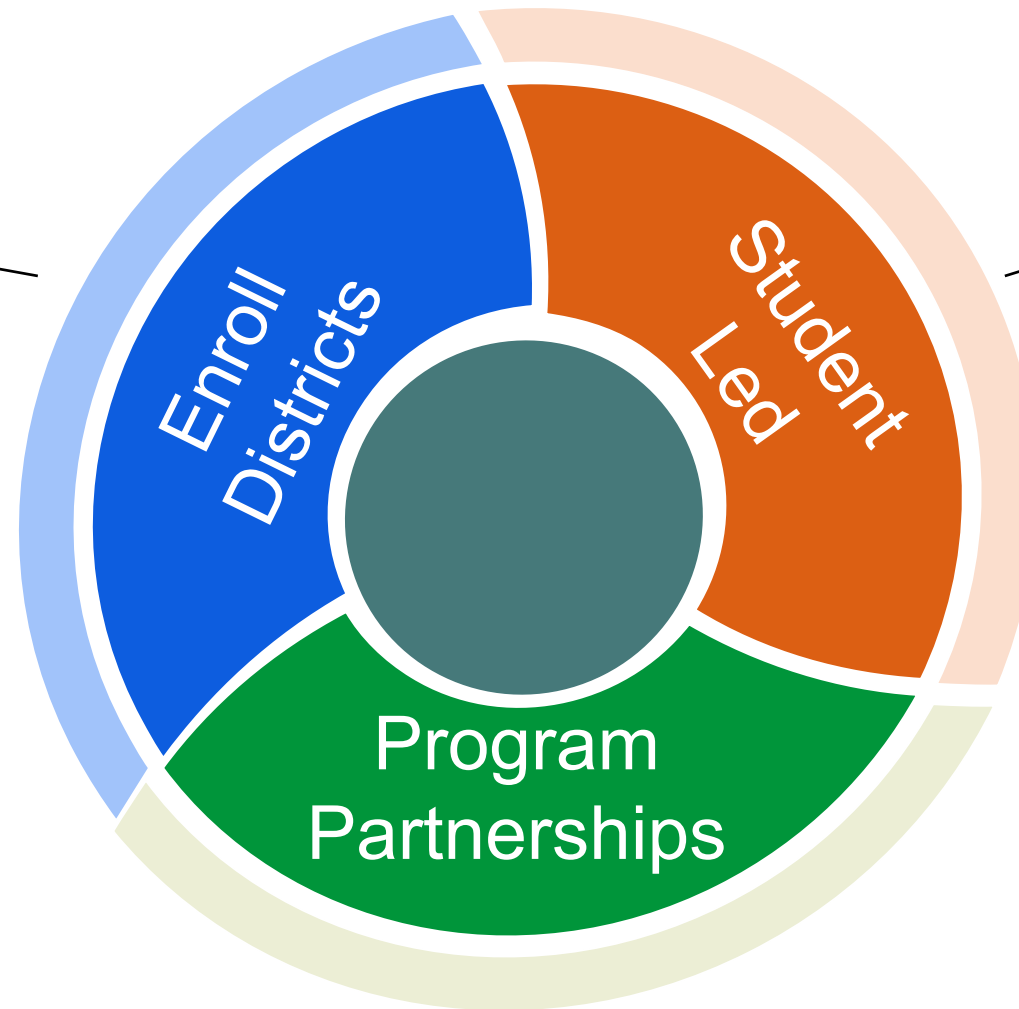


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# New Program Design

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- More Schools
- Buy-In
- Culture Change



- STEM Education
- Persistence
- Engagement

- Competitions
- Direct Savings



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# Energy Savings for Schools

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**Free**

Technical support and energy coaching

**Free**

District Energy management assessment

**Free**

Energy champion support network  
and training

**Free**

Student and staff engagement  
activity planning

**Free**

Support for student-led energy audit

**Free**

Recognition for your district's efforts

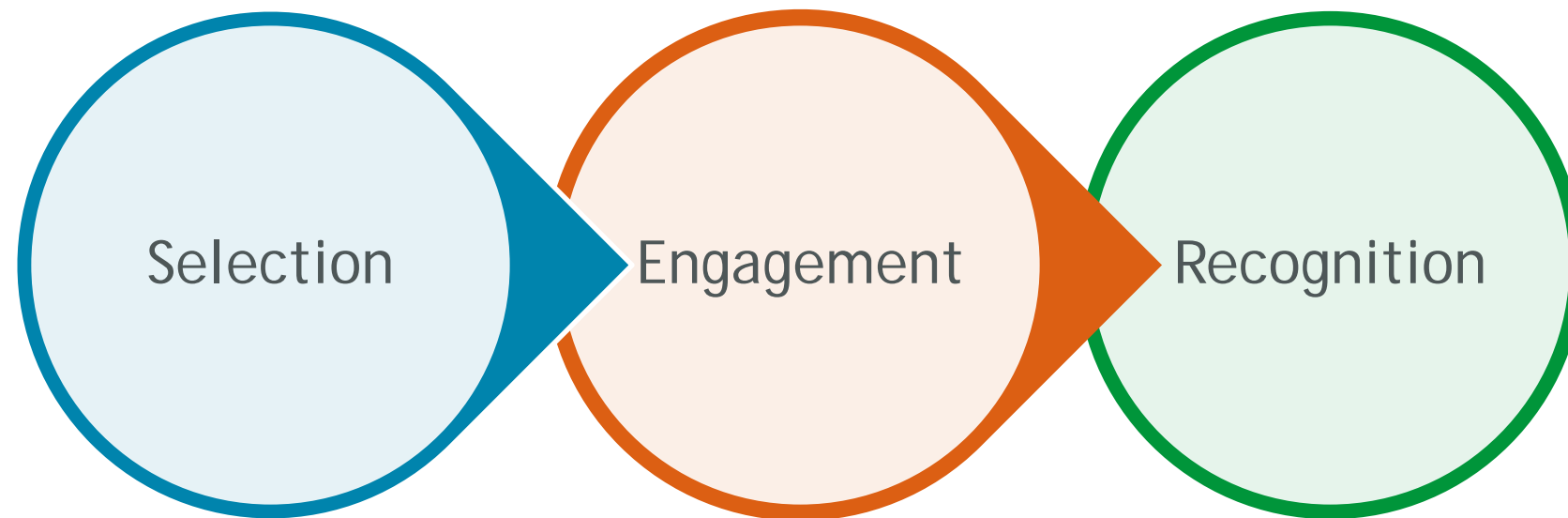


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# How it works

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- Applicants Apply:
  - District Information
  - Energy Consumption
  - Priorities
  - Energy engagement
- We support:
  - Educational Materials
  - Workshops and Trainings
  - Student-led Audit
  - Opportunity Register
  - Implementation support
  - Energy tracking
- Award ceremony
- Connection with funding sources



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# *Participant Experience*

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- Learning about efficiency
- Staff and Students
- Government contacts
- Free curriculum
- Ongoing support
- Renewable Energy



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# Examples of Engagement

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## For Teachers

- Lead Green Team
- Turn off lights
- Close doors
- Declutter HVAC vents
- Report temperatures

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## For Staff

- Close doors
- Close dampers
- Schedule HVAC system
- Adjust hot water temp

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## For Students

- Start Green Team
- Bring lessons home
- Turn off electronics
- Make energy science fair project

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# Partner Programs

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## ReNew Our Schools

- Tools to measure energy use
- Real-time data
- Competitive and fun
- Cash prizes

## Energy Performance Contracting

- Get Organized
- Select ESCO
- Industrial-Grade Audit
- Construction
- M&V



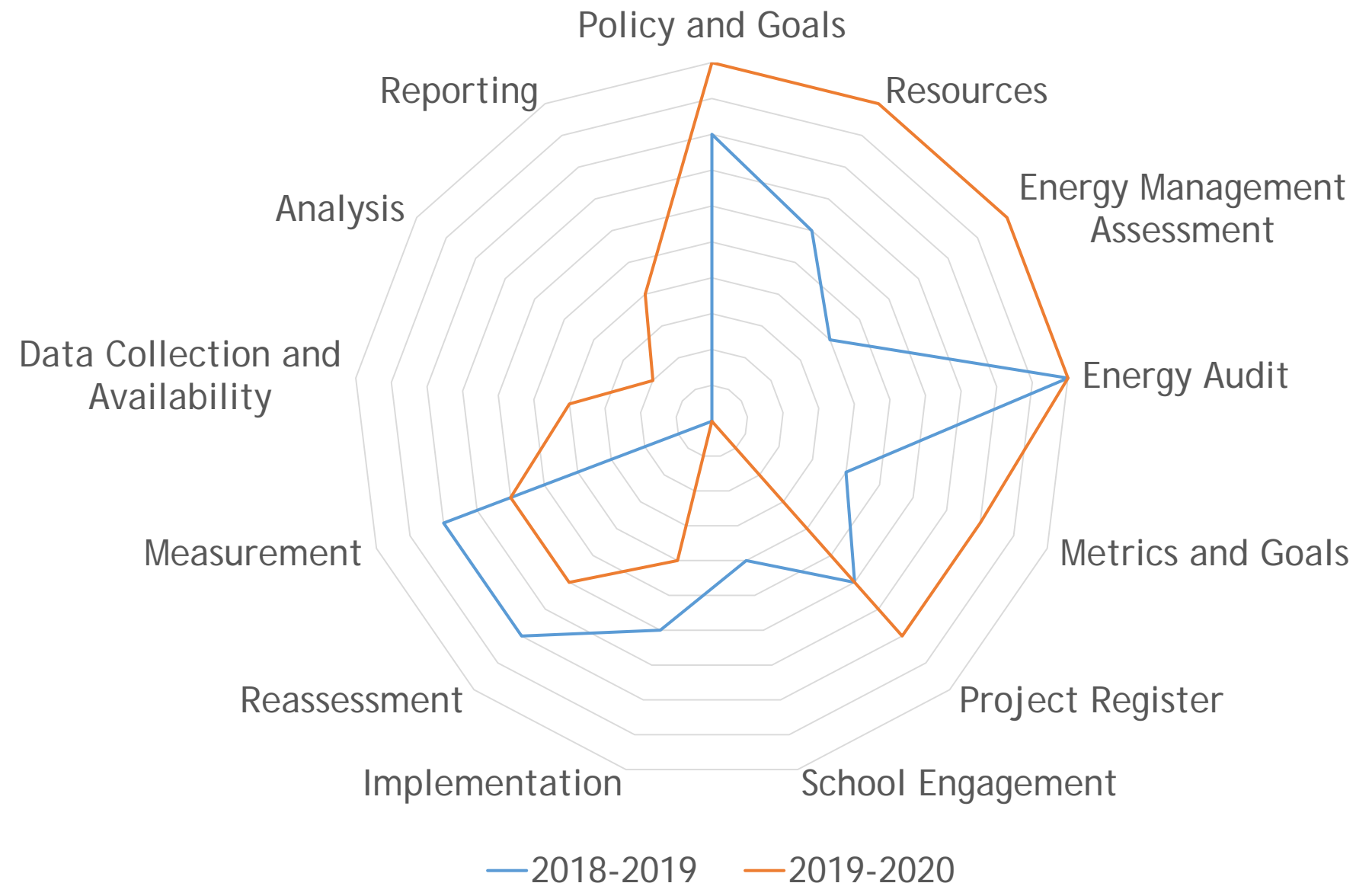


# Defining Success

*How many schools in the district have completed each engagement category?*

*Do the districts have goals? Energy Plans? Project Registers?*

## District Year by Year Energy Engagement



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# Success Story: Estes Park

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## Summary:

110,289 kWh projected annual savings

Total project cost: \$47k

Cost to School: \$5k

## Classroom Lighting

The school has gone through training to understand how a **well designed comfortable classroom facilitates learning.**



## Exterior Lighting

**School is very happy with increased light levels and security. Neighbors have complained that it is too bright.**



## Gym Lighting

**Light color matches daylight well making the gym feel like there are exterior windows.**



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# Partnership: Pueblo 70

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## ReNew Our Schools

- Seven schools competing
- eGauges installed during EPC period
- Competition in the Spring

## Energy Performance Contracting

- \$14 Million EPC Project
- \$600,000 projected annual energy savings
- Twenty-three buildings
- LED lighting, controls expansion and optimization, roof and ceiling replacements, HVAC, boilers, power sources, and retro-commissioning



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# *Summary*

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- ESS offers student and staff engagement at no-cost
- Engages at the district-level
- Provides technical support for facilities staff
- Provides engagement support for staff and students
- Provides STEP Education support via KidWind and Wind for Schools

# *Discussion*

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- How can the Colorado Energy Office support school district energy managers & sustainability programs?



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# Questions

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Anna Kelly

Associate Program Manager

[Anna.Kelly@state.co.us](mailto:Anna.Kelly@state.co.us)

303-866-5917

Colorado Energy Office



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Patti Mason  
Regional Director, Mountain  
U.S. Green Building Council  
[pmason@usgbc.org](mailto:pmason@usgbc.org)

### Glenwood Springs Elementary School

Glenwood Springs, CO US

**2018-10-22**

Roaring Fork School District RE-1

K-12 / 90,906 sq ft

### Platte Valley School

Ovid, CO US

**2018-09-26**

Platte Valley School District Re-3

K-12 / 57,481 sq ft

### Genoa Hugo P-12 School

Hugo, CO US

**2018-09-17**

Genoa-Hugo School District C-113

K-12 / 64,464 sq ft

### Elbert PK-12 School

Elbert, CO US

**2018-06-13**

Elbert School District

K-12 / 74,634 sq ft

### Prairie Heights Middle School

Evans, CO US

**2018-05-03**

Weld County School District 6

K-12 / 103,267 sq ft

### Telluride School Expansion

Telluride, CO US

**2018-01-04**

Telluride School District

K-12 / 29,087 sq ft

2018 LEED Certified  
Schools in Colorado...  
all certified under  
LEED v 2009



## Dawson Dining Hall

Overview

LEED Dashboard

Collections (2)

Save This 

### ACTIVITY SUMMARY

**LEED Schools 2009 Gold certified on 09/11/2018**



**62/110**

Possible points

In the top 24% of projects in this rating system version

### LEED DASHBOARD



Energy and Atmosphere

**14/33**

Possible Points



Materials and Resources

**6/13**

Possible Points



Indoor Environmental Quality

**14/19**

Possible Points



Sustainable Sites



Water Efficiency



Innovation in Design

### LOCATION



This project is located at:

10455 Dawson Dr, Lafayette, CO, USA

1 other activities at this building

### ACTIVITY DETAILS

Activity Type	LEED
Space Type	Educational Facilities
Project Size	13,770 sq ft
CBSA	Boulder, CO Metropolitan Statistical Area
USGBC Chapter	Colorado Chapter
EPA Region	EPA Region 8: Mountains and Plains
Urban Rural Classification	NCHS Urban-Rural Classification: Medium metro



# LEED v4

## Buena Vista New Middle and High Schools

📍 Buena Vista, CO US

2018-09-07

Buena Vista SD  
K-12 / 100,000 sq ft



LEED v4 BD+C SC

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## MVSD PK-12

📍 Saguache, CO US

2018-07-05

Mountain Valley School District  
K-12 / 67,722 sq ft



LEED v4 BD+C SC

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## Del Norte K-12 School

📍 Del Norte, CO US

2018-06-18

Del Norte Consolidated School District  
K-12 / 120,000 sq ft



LEED v4 BD+C SC

# EVOLUTION OF LEED

**LEED v1.0-2.2**  
1998-2009

Strategy based

**LEED 2009**  
2009 - PRESENT

Analytically weighted

**LEED v4**  
NOV. 2013

Outcome oriented

# MARKET SECTOR ADAPTATIONS

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Data Centers



Warehouses and Distribution Centers



Hospitality



Existing Buildings for Schools

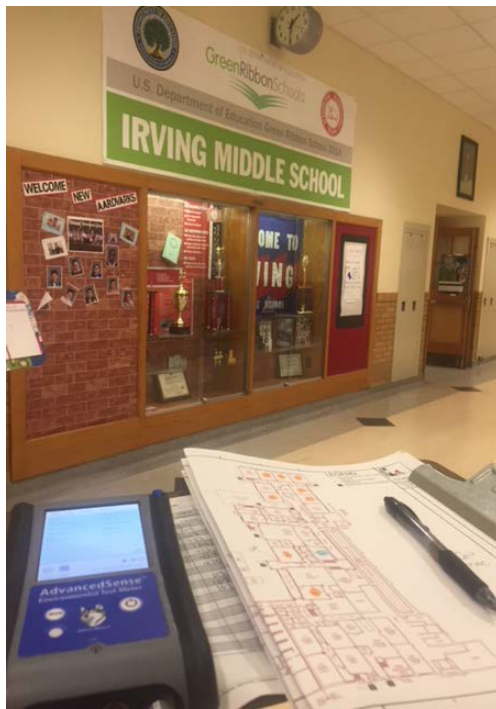
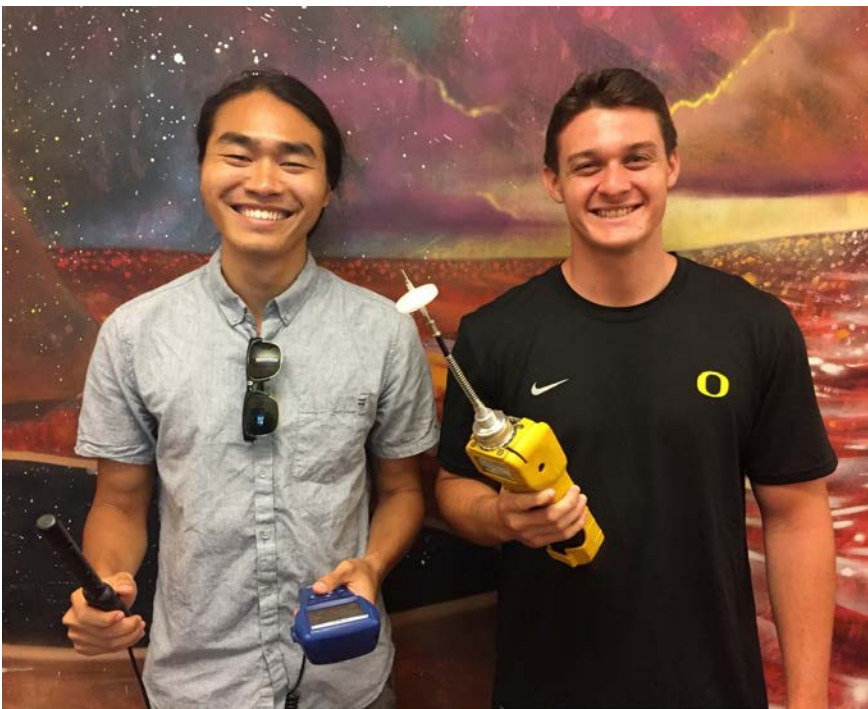


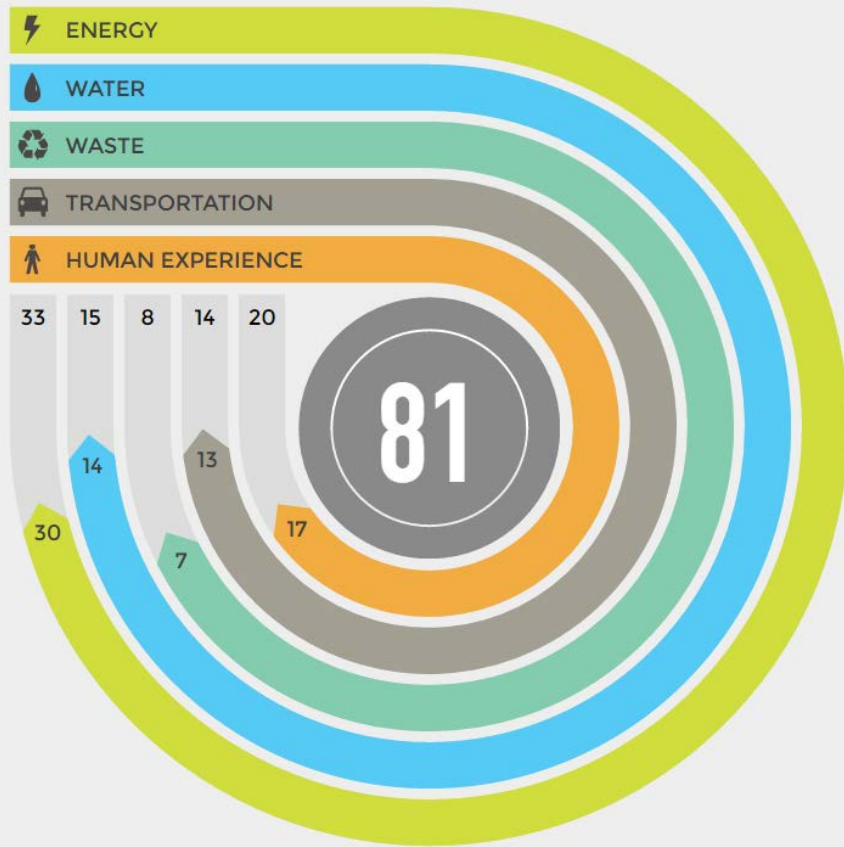
Existing Buildings for Retail



Homes Multifamily Midrise

# arc + Schools





## ACTION-ORIENTED MEASURABLE GREEN PERFORMANCE

### MANAGE

ongoing performance

### IDENTIFY

low and high performers

### COMPARE

with local and global peers

### COMMUNICATE

performance in a simple way



Energy



Water



Waste



Transportation

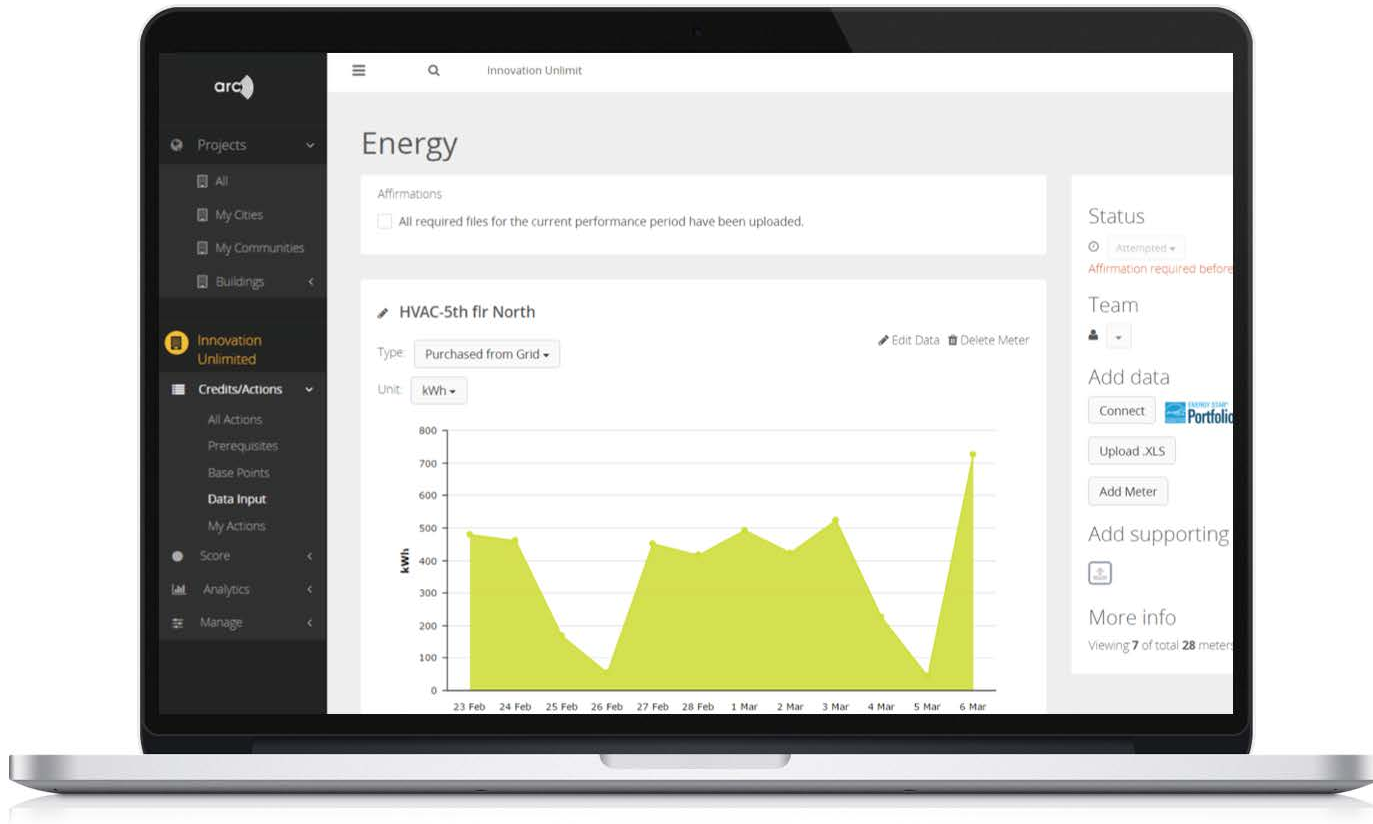


Human Experience

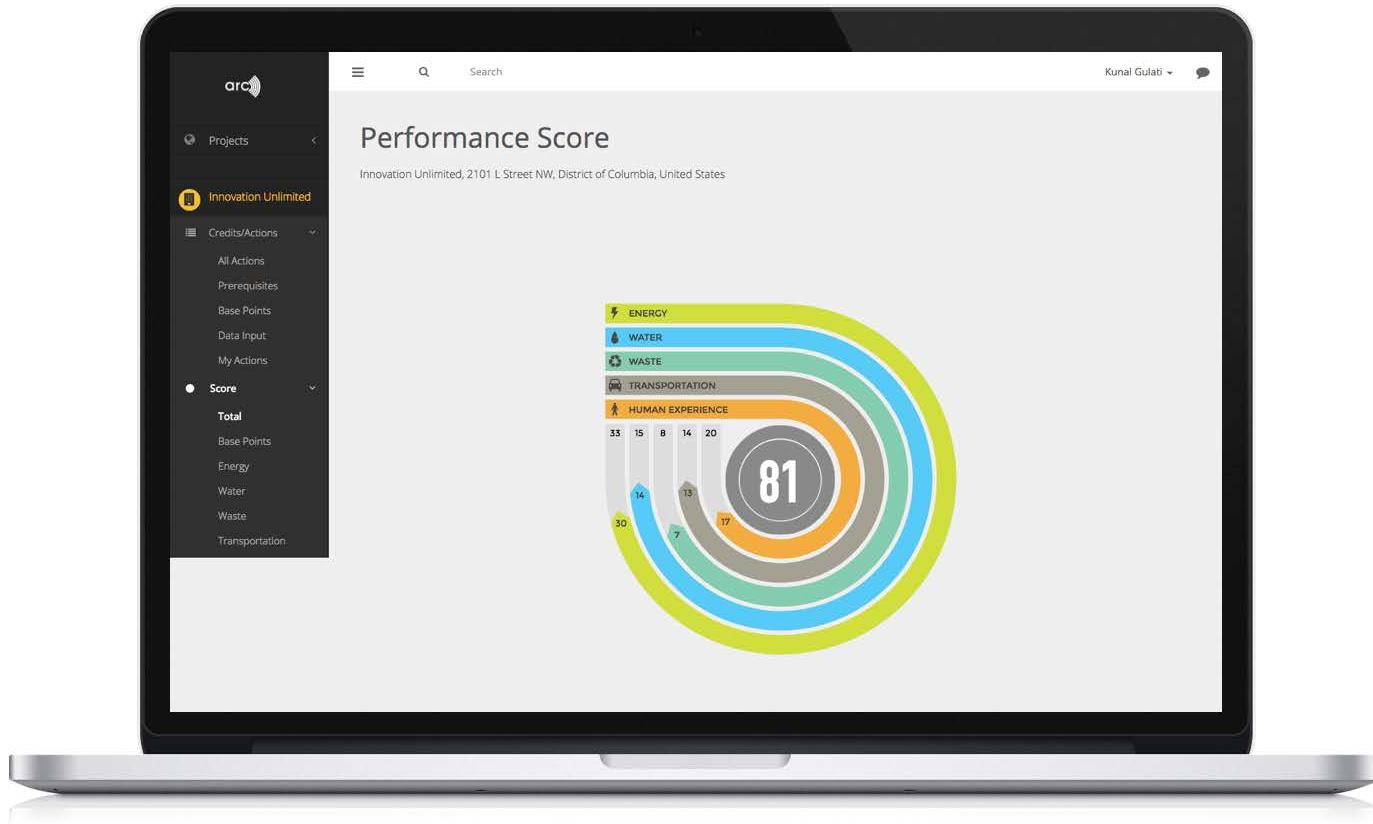
Arc calculates a performance score out of 100, based on global building data and action-oriented strategies across five categories.



# ENTER DATA:

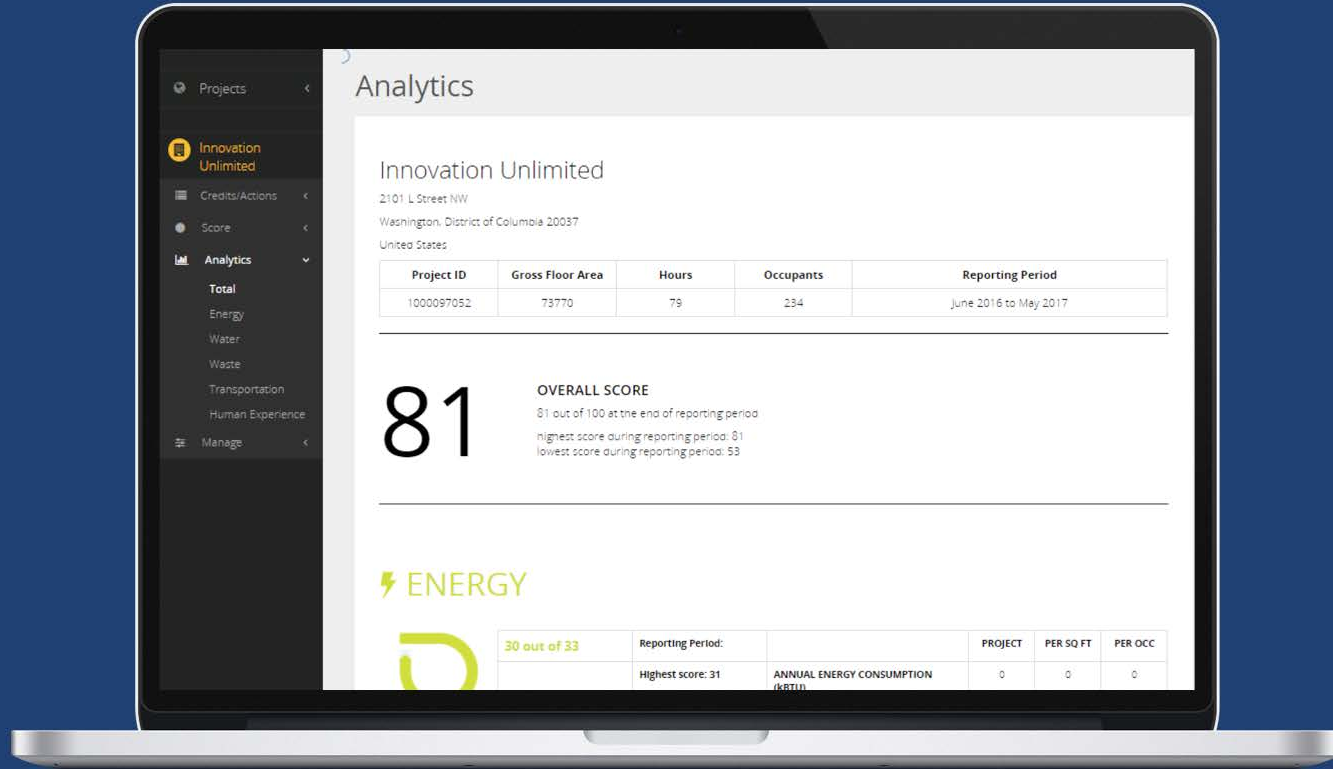


# VISUALIZE SCORE:

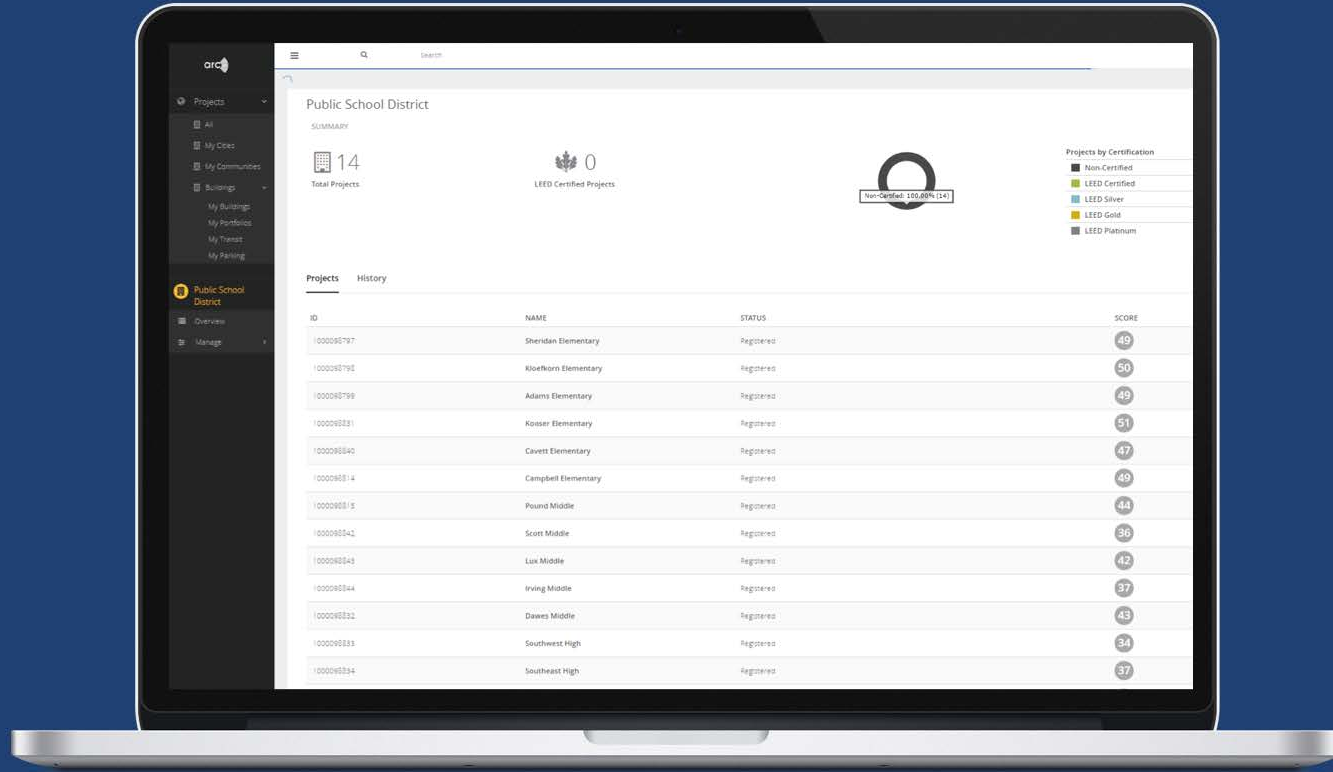




# ANALYTICS



# Manage performance across a global portfolio





Performance score to  
**LEED certification**

## Deeper Dive into Data

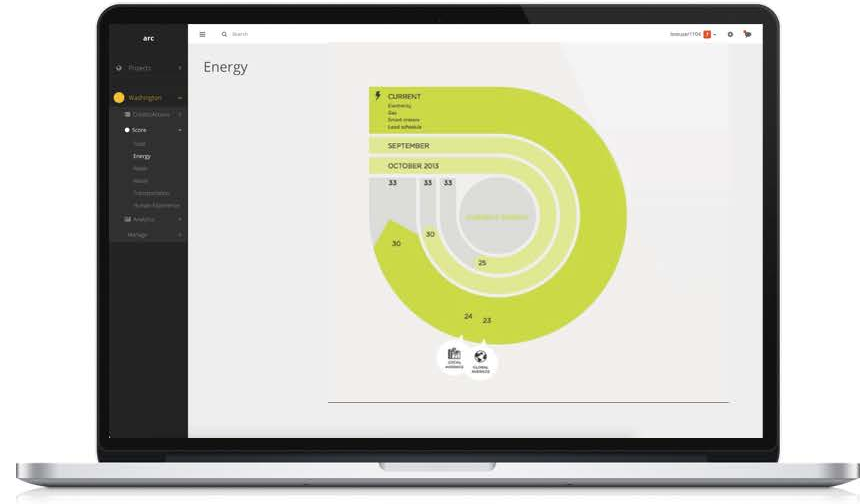


1. Carbon emissions from measured energy use
2. Measured water use
3. Weight of waste generated and diverted
4. Carbon emissions from transportation choices
5. Environmental quality
  - i. Occupant satisfaction
  - ii. Interior carbon dioxide levels
  - iii. Interior volatile organic compound levels

# ENERGY

- Provide 12 months of whole building energy use
- Visualize a score
- Compare against historical scores, local and global averages
- Lower energy use related carbon emissions in a higher score
- Review score analytics
- Aggregate utility bills for GBCI's review
- Score is based on an emissions per capita and unit area

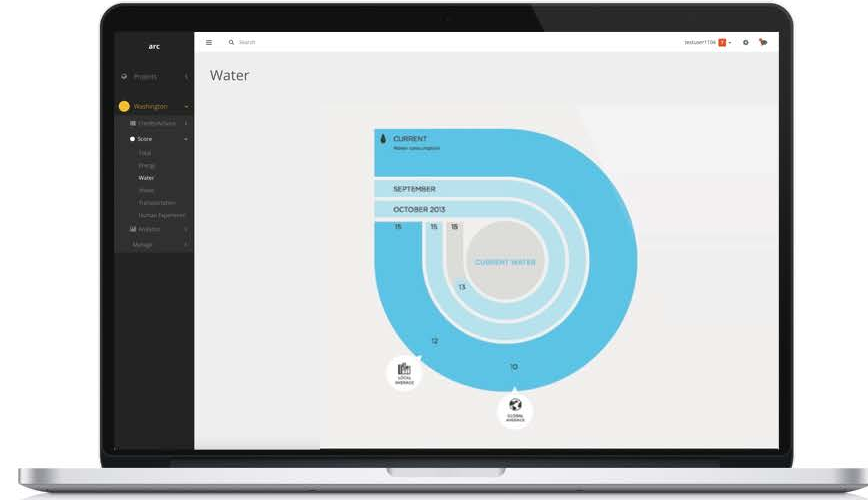
# ENERGY SCORE: 0-33



# WATER

- Provide 12 months of whole building water use
- Visualize a score
- Compare against historical scores, local and global averages
- Lower water use results in a higher score
- Review score analytics
- Aggregate utility bills for GBCI's review
- Score is based on a consumption per capita and per unit area

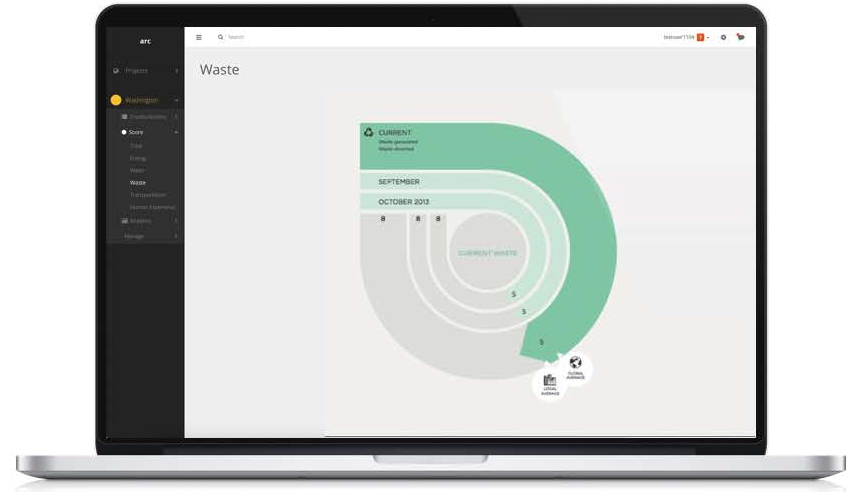
## WATER SCORE: 0-15



# WASTE

- Provide at least one waste analysis that includes:
  - Weight of waste generated
  - Weight of waste diverted from landfills
- Visualize a score
- Compare against historical scores, local and global averages
- Lower waste generation and higher waste diversion rate results in a higher score
- Review score analytics
- Aggregate reports for GBCI's review
- Score is based on weight generated and diverted per capita

## WASTE SCORE: 0-8

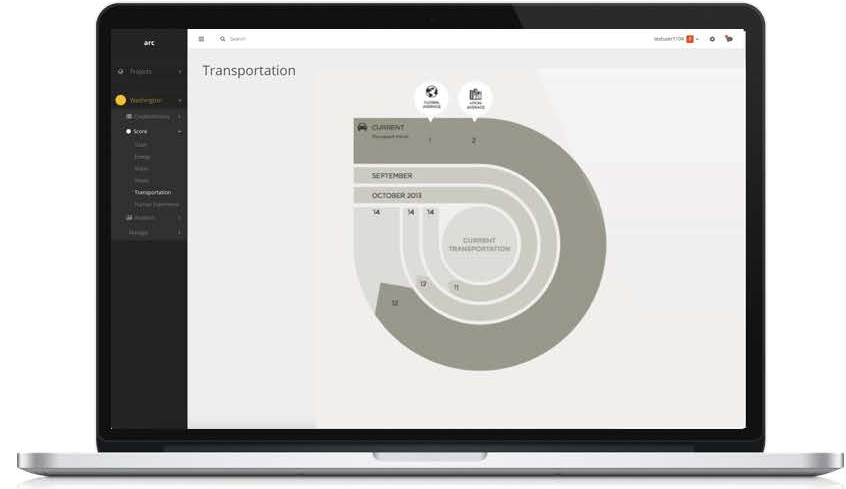




# TRANSPORTATION

- Administer a survey and receive a minimum response rate based off the building's occupancy
- Survey link is provided in the platform
  - Email the survey to occupants or make available in a common area on an internet enabled device
- Visualize a score
- Compare against historical scores, local and global averages
- Review score analytics
- Distance traveled is converted into carbon emissions via mode of transportation. The lower the emissions the better the score.

# TRANSPORTATION SCORE: 0-14

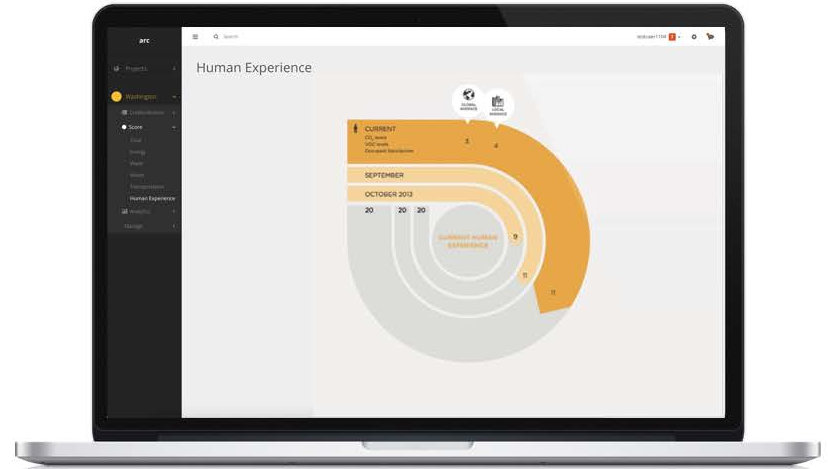




# HUMAN EXPERIENCE

- Administer a survey and receive a minimum response rate based off the building's occupancy
- Survey link is provided in the platform
  - Email the survey to occupants or make available in a common area on an internet enabled device
- Conduct at least one air quality sampling for CO2 & TVOC concentrations at every 25,000 sf
- Visualize the score
- Compare against historical scores, local and global averages
- Review score analytics
- Higher occupant satisfaction and better indoor air quality results in higher score

# HUMAN EXPERIENCE SCORE: 0-20



# What are k-12 districts looking for in a tool?



One platform & one place to **track whole school sustainability.**

A **seamless process to certify to LEED O+M**  
and other rating systems.

Access to a **database of sustainability  
policies and practices** to support continuous  
improvement.



**Simple user interface** that teachers and  
students can interact with in the classroom.



A **numerical score and visual demonstration of  
“greenness”** that can be shared with district decision  
makers.

# Whitefish High School

## Whitefish, MT

LEARNING LAB



GREEN APPLE  
DAY OF SERVICE



arc





# Whitefish School District, Montana



# Whitefish School District, Montana





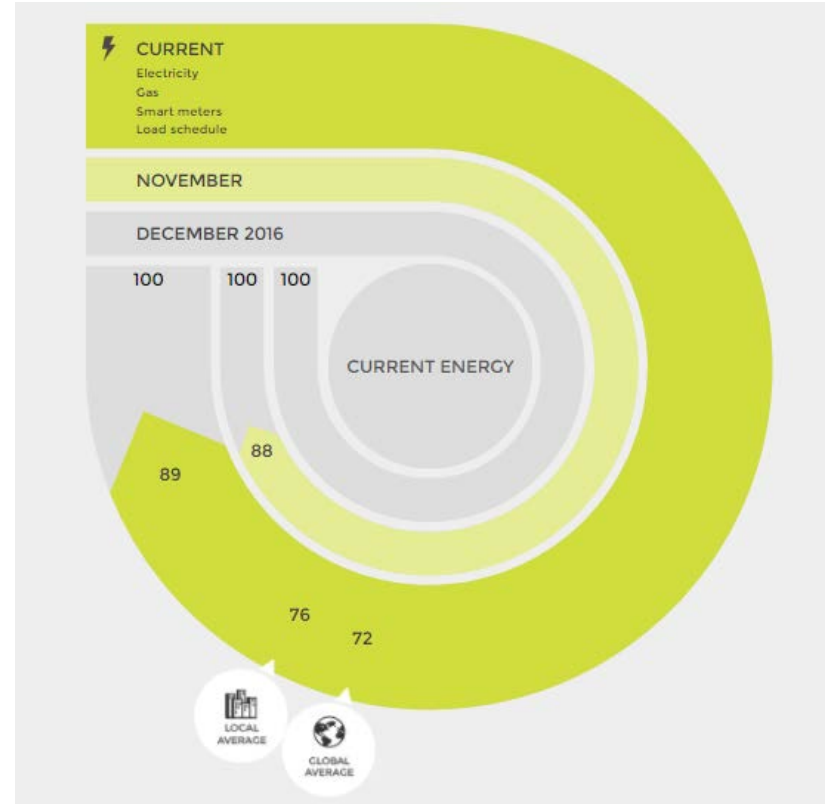
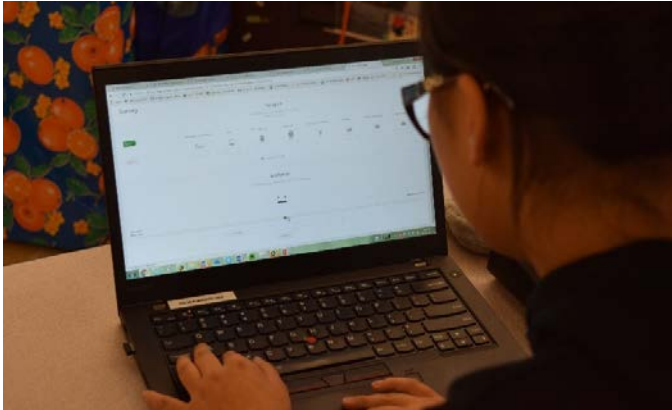
# Boston Latin School

## Boston, MA

GREEN APPLE  
DAY OF SERVICE

+

arc

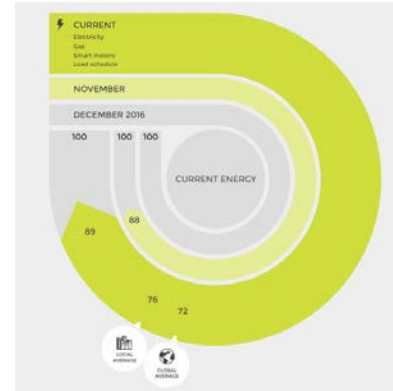


# Boston Green Academy

Boston, MA

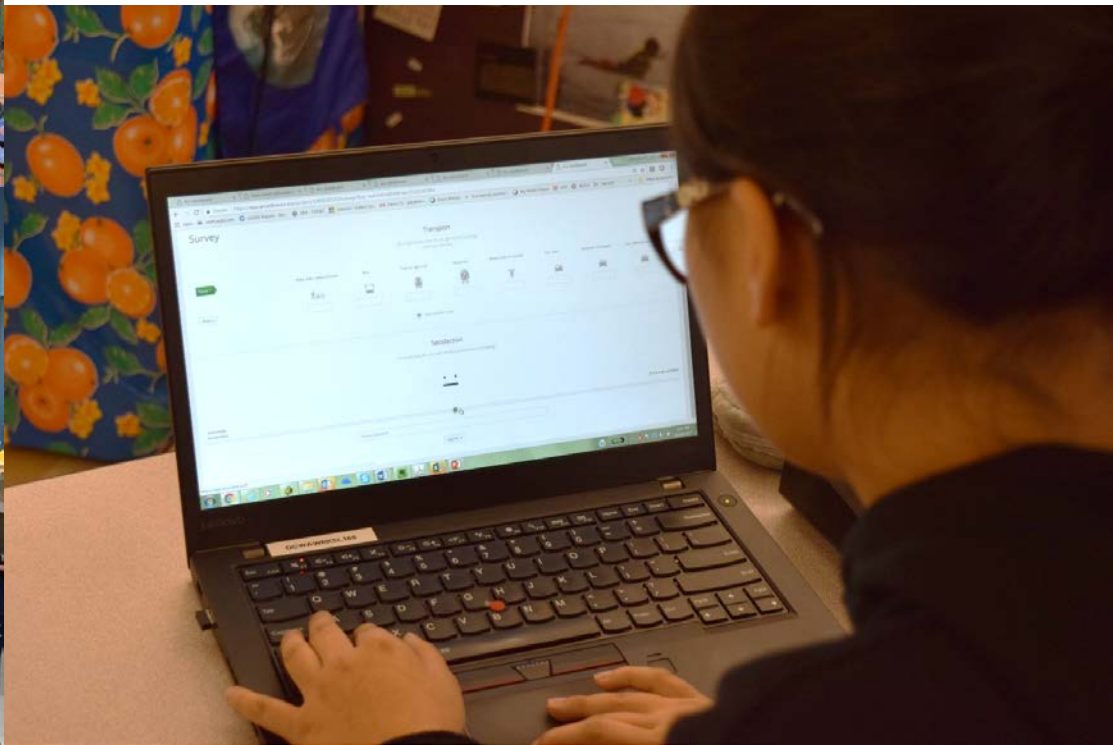
GREEN APPLE  
DAY OF SERVICE

+ LEARNING LAB +

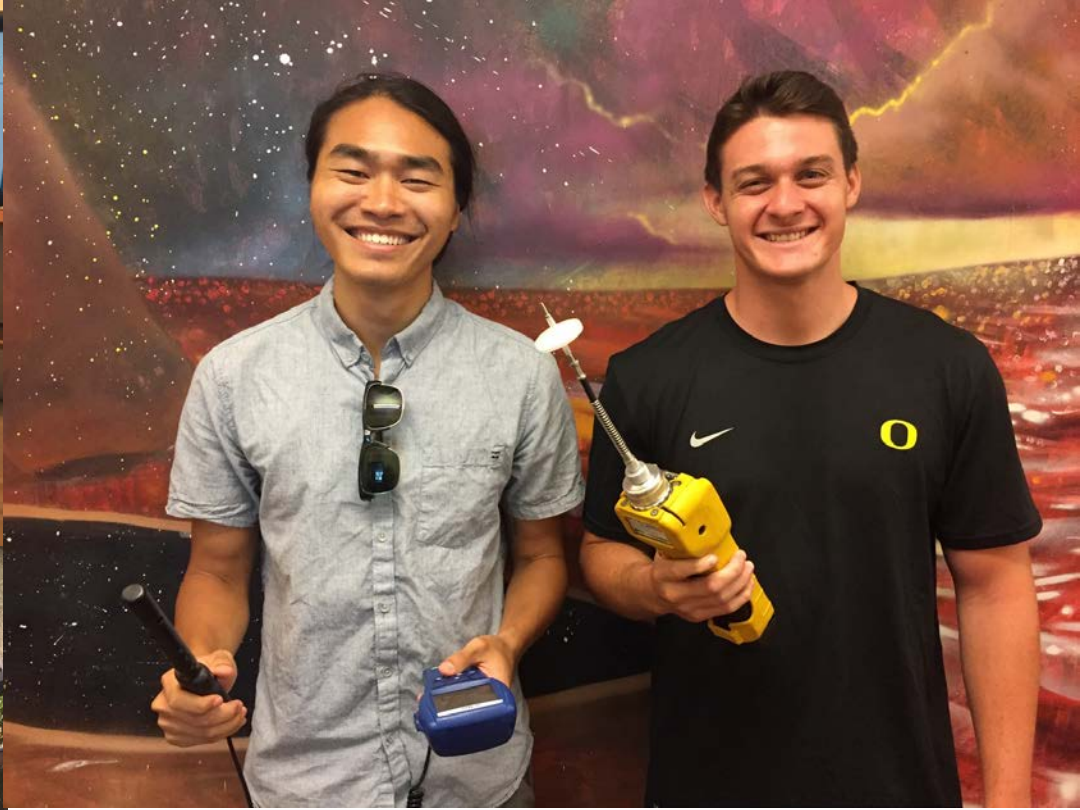




# Boston Public Schools, MA







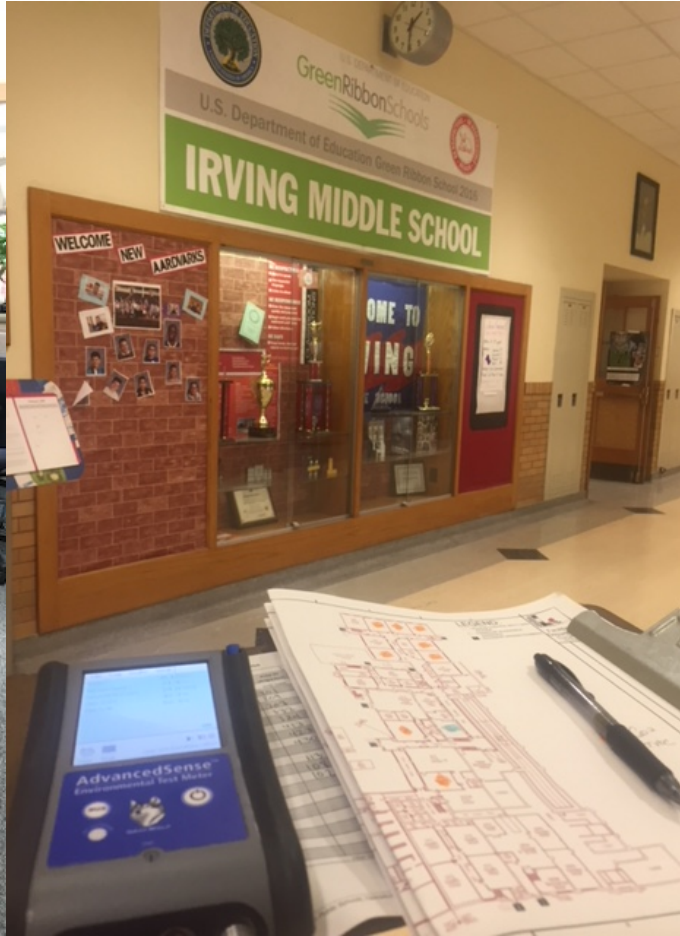
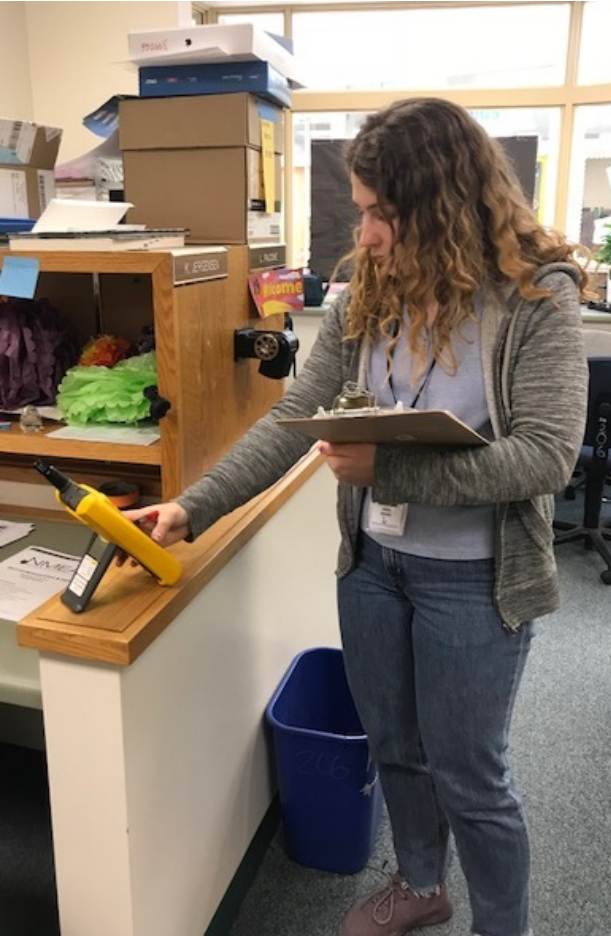
**Kamehameha Schools, Hawaii**

# Kamehameha Schools, Hawaii





# Lincoln Public Schools, Nebraska





# LET'S GET STARTED!

[arcskoru.com](https://arcskoru.com)

Now offering... a FREE YEAR of  
access to ARC for all k-12 schools!

Sign up: [schools@usgbc.org](mailto:schools@usgbc.org)

# RESOURCES

- [arcskoru.com](https://arcskoru.com)
- [contact@arcskoru.com](mailto:contact@arcskoru.com)
- LEED v4 O+M: [usgbc.org/buildingperformance](https://usgbc.org/buildingperformance)
- Arc tutorials: [youtube.com/usgbc](https://youtube.com/usgbc)
- Pricing: [usgbc.org/cert-guide/fees#om](https://usgbc.org/cert-guide/fees#om)







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Energy Performance Contracting

Better Buildings Through  
*Energy Performance Contracting:*  
*following a path to guaranteed energy savings*

CASDEM

November 7, 2018



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# Colorado Energy Office

## Overview

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### Our Mission

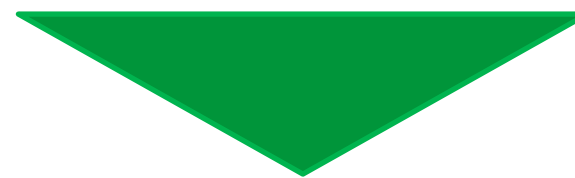
To deliver cost-effective energy services and advance innovative energy solutions for the benefit of all Coloradans.



Low Income &  
Residential Energy  
Services



Commercial &  
Industrial Energy  
Services



Transportation  
Fuels &  
Technology



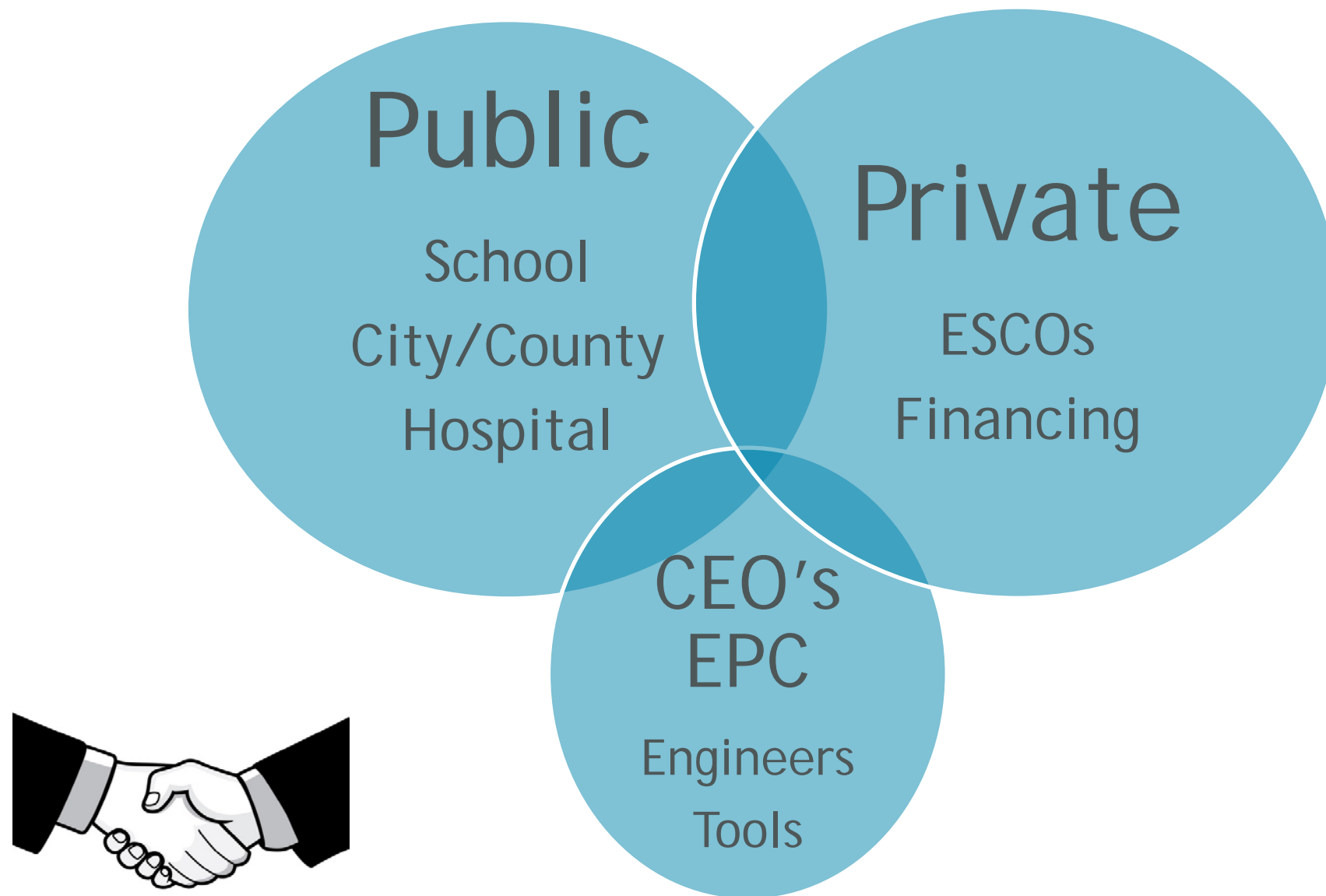
Public Affairs



Energy Performance  
Contracting

# Partnership

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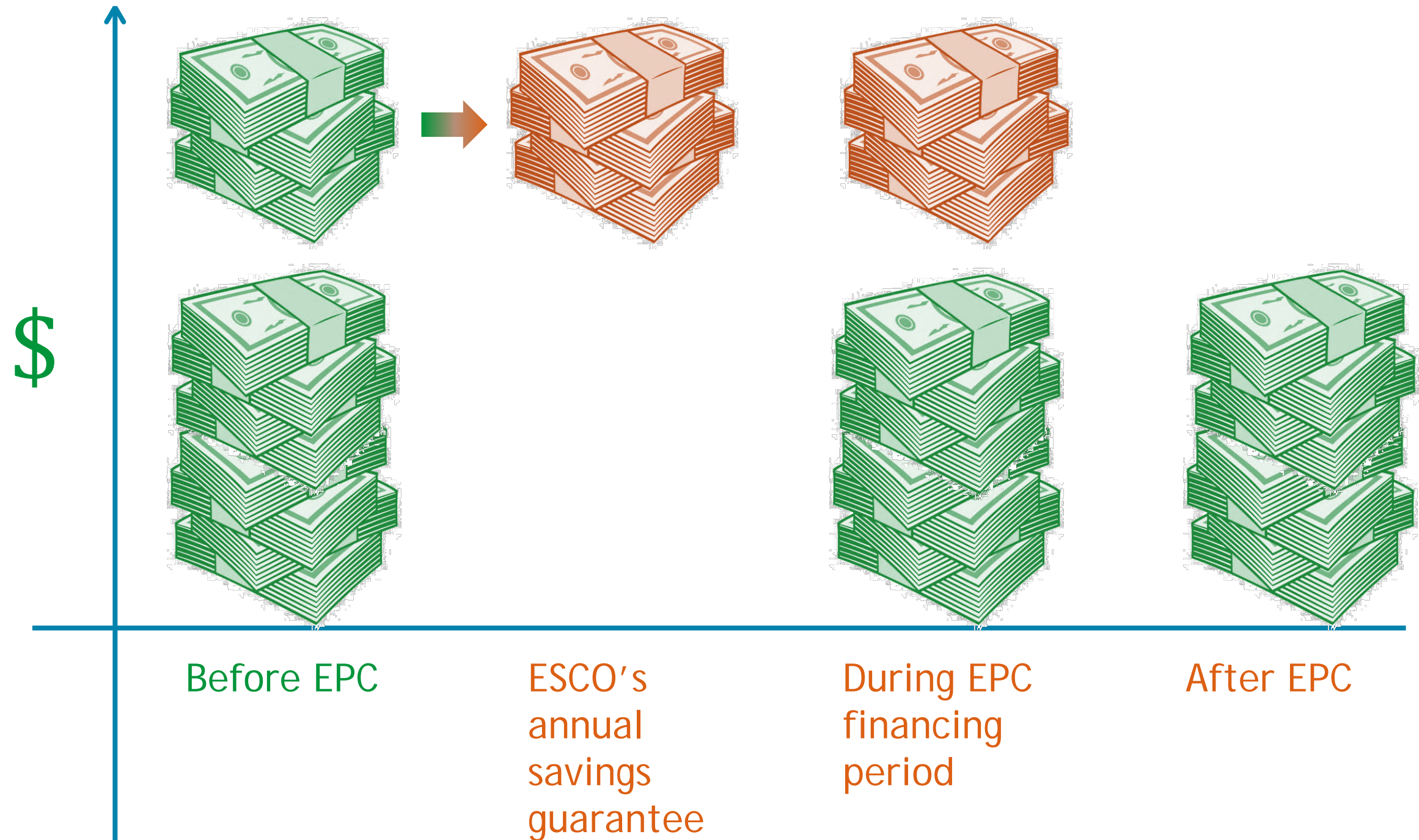


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Energy Performance Contracting

# Energy performance contracting (EPC)



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Energy Performance Contracting

# The 5-step EPC process

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MEASUREMENT & VERIFICATION

- ENERGY PERFORMANCE CONTRACT
- FINANCING CONTRACT
- CONSTRUCTION

INVESTMENT GRADE AUDIT + PROJECT PROPOSAL CONTRACT

SELECTION OF A PRE-QUALIFIED ESCO

CLIENT COMMITMENT: (1) Build your team, (2) Sign MOU with CEO



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Energy Performance Contracting

# The key elements of success with EPC

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- Standardized, state-approved documents
  - Developed by consensus, and approved by State Architect +AG + Controller
  - Toolkits, contracts, guidance, protocols on website
- Pre-qualified ESCOs
  - Engineering capacity and organizational strength
  - ESCOs contracted with the State
- CEO advice and technical support
  - MOU outlining CEO support
  - Dedicated engineer throughout life cycle of project
- Private market-based financing
  - Active EPC finance community in CO



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# The results, through FY18

## PUBLIC SECTOR EPC PROGRAM RESULTS as of June 30, 2018

Facility investments	GUARANTEED ANNUAL UTILITY SAVINGS	ENERGY + WATER CONSERVATION MEASURES
\$574,452,035		
Executed projects 206		
Public clients 152		
State agencies 8/18		
Higher education 19/26		
Counties 23/64		
School districts 57/179		
Municipalities 36/271		
Special districts 9/?		
Public buildings 2576		
Square feet improved 83.1 million sf		
<i>Office space, schools, housing, libraries, jails, hospitals, street lighting, water &amp; wastewater facilities, swimming pools, ball fields</i>		
	Electricity (kWh) 193 million	
	Natural gas, propane, heating oil & coal (therms) 10.3 million	
	Water (kgal) 507,560	
	Utility cost savings \$34.2 million	
	Operations & maintenance (O&M) cost savings \$3 million	
		HVAC improvements Boiler replacements Pumps, fans & drivers Equipment controls Lighting fixtures & controls Occupancy sensors Operations & scheduling Building envelope improvements Water efficiency (low flow fixtures, irrigation, evapotranspiration & cooling tower controls, ice machine & laundry conversions, pool covers, valve replacements) Street & traffic lights Renewable energy installations

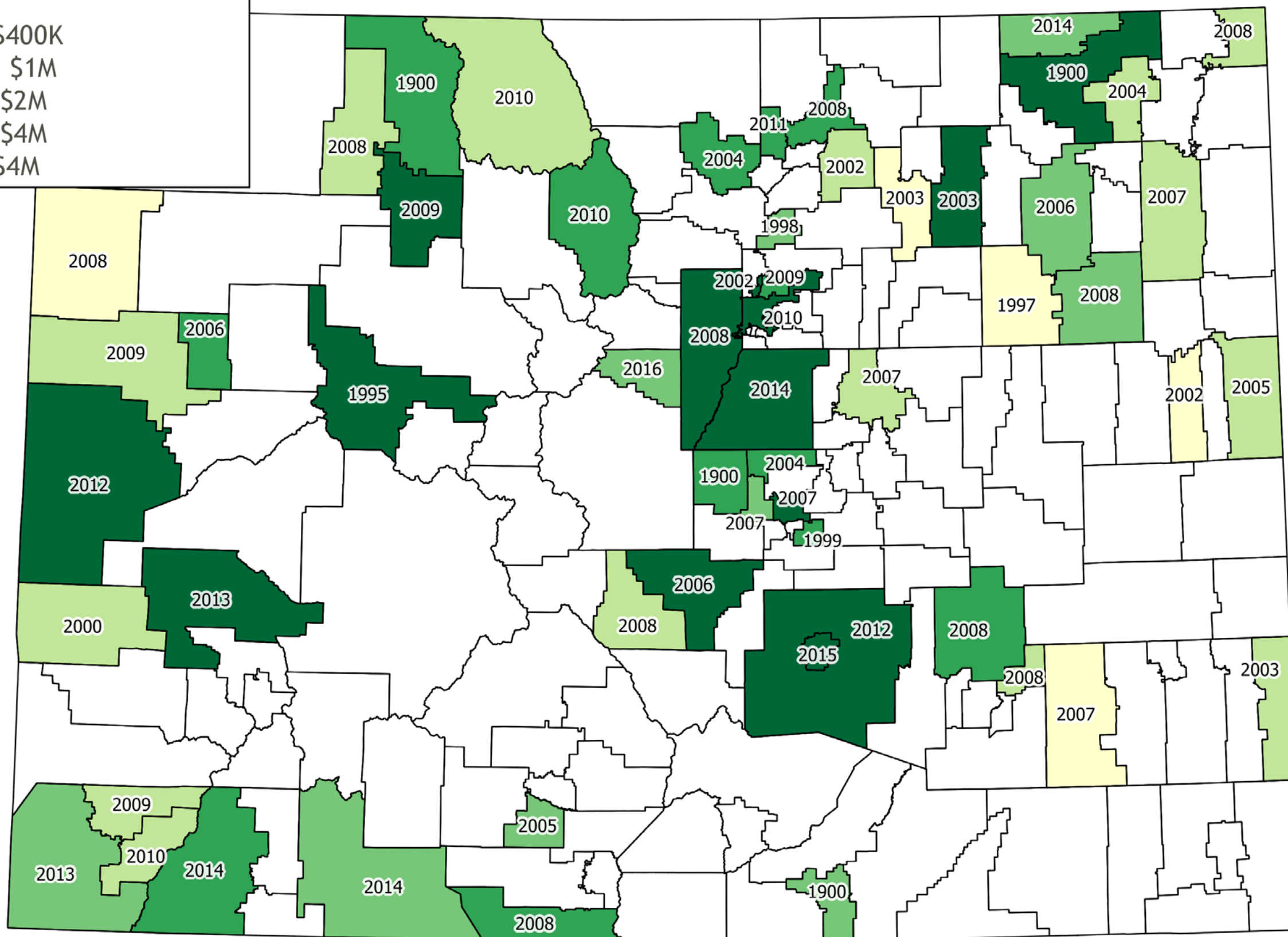


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Energy Performance Contracting

## Total Investment



Source: Colorado Energy Office

# CEO's Experience with EPC in Colorado School Districts

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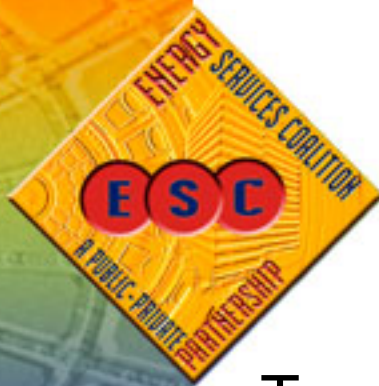
- 35% of all EPC projects have been in School Districts
- Improvements: \$275,000 to \$10.5 million
- Project size: from 1 building to 58 school facilities
- Annual utility cost savings guarantees: \$11K to \$570K
- The average financing period: 11 years
- A number of school districts have leveraged a first EPC project for subsequent phases.
- Leveraging other grants in an EPC: DOLA, BEST
- 12 current SD projects: 5 implementing; 7 in M&V



# **The ESCO's Role in Energy Performance Contracting**

**Presented by the Energy Services Coalition (ESC)**

**Carl Hurst, P.E.  
Director  
Iconergy, Ltd**



# Colorado ESC Chapter

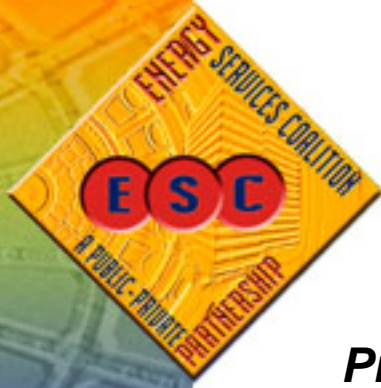
## Mission

To promote the benefits of, provide education on, and serve as an advocate for the widespread use of energy performance contracting in public and private facilities.

**The diverse membership of the ESC provides a unique opportunity to:**

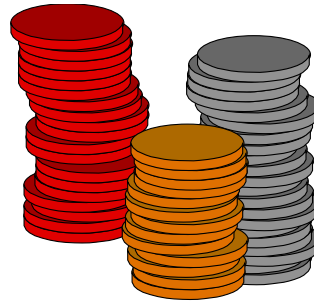
- Provide independent third party information and education
- Identify and overcome barriers in Colorado





# Energy Performance Contracting At A Glance

***Projects pay for themselves!***



***Savings stack up over time...***

A way to upgrade your facilities without dipping into your capital budget

Use future energy savings to pay for projects





# Your ESCO Partner

A qualified ESCO combines multiple disciplines into a turnkey approach for your Energy Performance Contract including:

- Identification/evaluation of project opportunities
- Financing and other funding sources (grants/rebates, etc)
- Installation, project commissioning, and construction management
- Measurement and verification of energy savings
- Staff and building operator training
- A savings guarantee that covers the cost of the total project

# What Challenges Do You Face At Your Facilities? We've Got The Solution!



## Challenges

- Sustainability Policies
- Conservation Concerns
- Aging Infrastructure
- Rising Operations Costs
- Lack of Capital
- Code and Regulation
- Comfort Issues
- Deferred Maintenance
- Inadequate In-House Staffing/Training

## The Solution



## Energy Performance Contracting

## Results

- Reduced Energy & Operational Costs
- Modernized Facilities
- Reduced Waste
- Single Source Responsibility
- Guaranteed Results
- Project Risk Mitigation
- Environmental Compliance
- Sustainability Initiatives
- Reduced Emissions



# A Typical Project Includes Bundling these Measures

Typical  
Payback  
of  
13 + yrs

## Larger Capital Improvements, Lower Savings or Return Items

- Major mechanical replacements (ERV, AHUs, boilers)
- Capital improvement item priority list
- Central plant and/or heating & cooling system replacements
- Renewable technology

Typical  
Payback  
of  
7-12 yrs

## Medium Capital Cost, Medium Return/Payback Items

- Wastewater and water process optimization & reductions
- Safety & environmental controls
- Water conservation & irrigation

Typical  
Payback  
of  
0-6 yrs

## Lower Capital Cost, High Return/Short payback Items

- Interior and exterior lighting, controls, HVAC
- VAV/VFD retrofits
- On-site Energy Manager, retro-commissioning

*Combined  
Projects*

Typical  
EPC  
Program  
Term -  
10 to  
20 yrs.

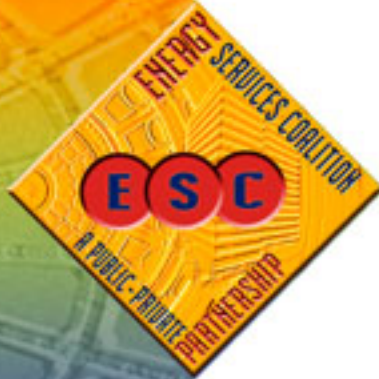
# Typical Energy Performance Contract Scope



- LED interior and exterior lighting systems
- Building automation system upgrades
- HVAC system improvements
- Boiler replacements
- Plant improvements
- Renewable energy systems
- Landscape irrigation
- Plumbing fixture replacements
- Commissioning
- Utility rate adjustments
- Building envelope – windows, roofs, doors



# An Alternative Approach for Building Improvements



## Traditional Design-Bid-Build

- Longer design and development process
- Cost not known until design is complete
- Lowest bid drives subcontractor selection
- Many contracts and lack of accountability
- Design misses cause change orders
- Customer at risk for costs and savings

## Energy Performance Contracting (EPC)

- Collaborative design reduces development time
- Project price defined at TEA/IGA completion
- Collaboration with subcontractors develops best cost solutions
- Single point of responsibility resides with ESCo
- No change orders – fixed project price
- ESCo at risk for costs and savings

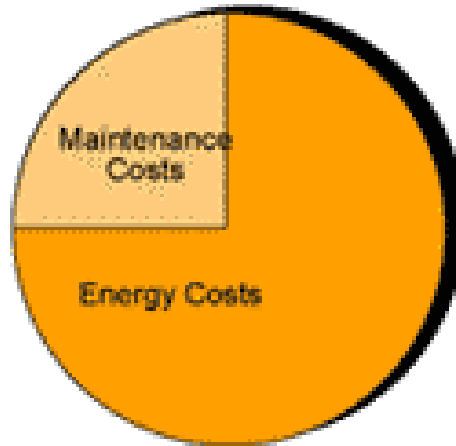




# How It Works

## Annual Budget

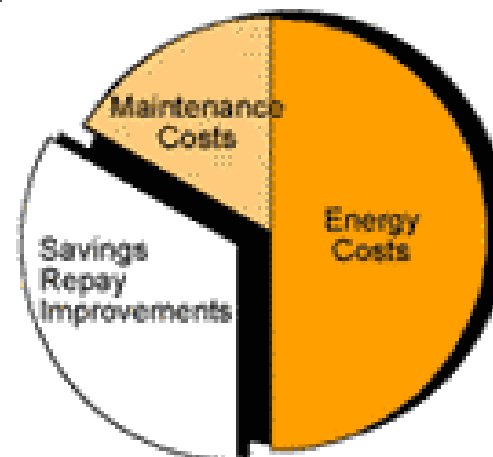
Before Improvements



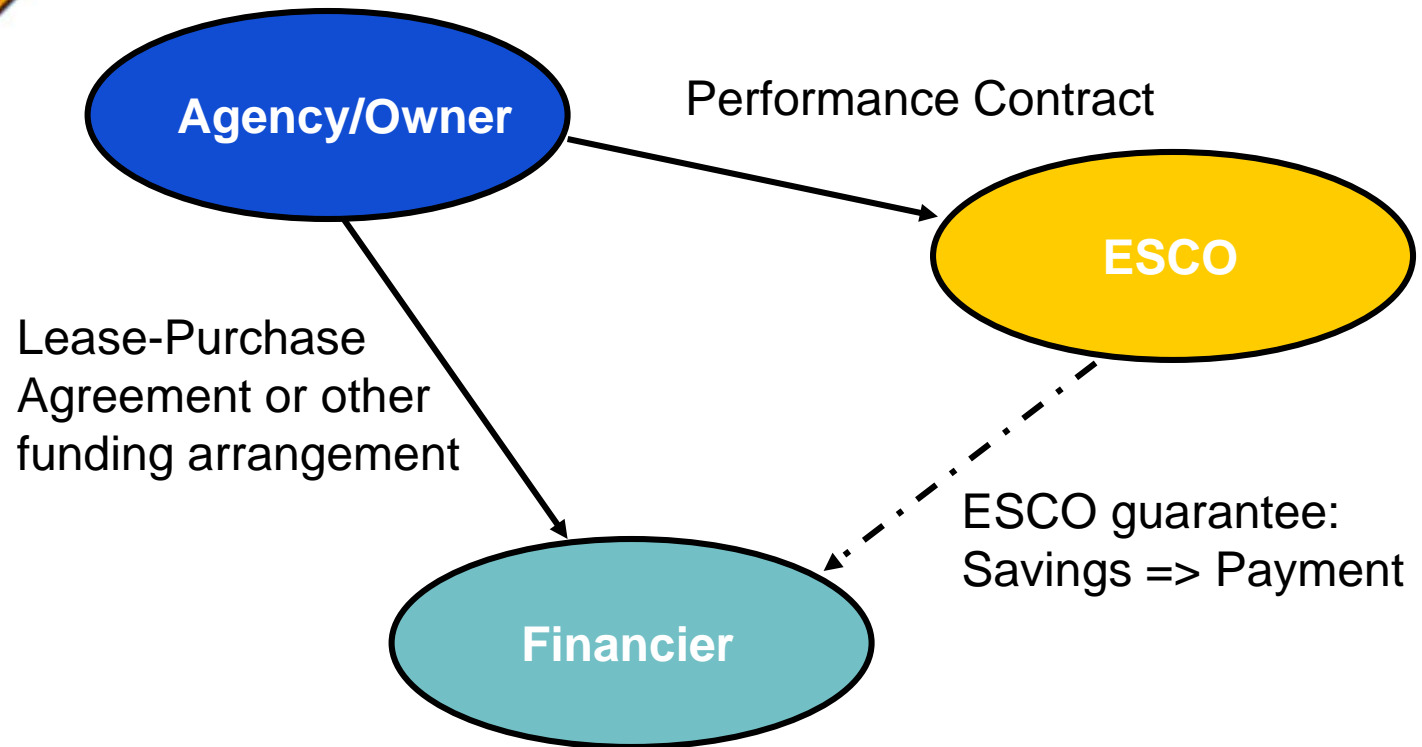
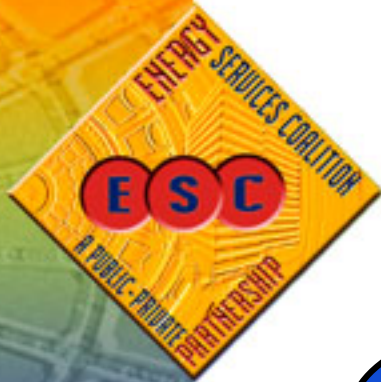
*Money otherwise owed to the gas or electric utility pays for equipment!*

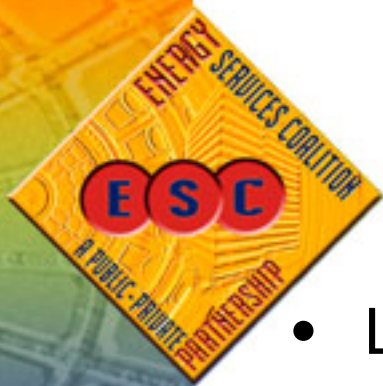
## Annual Budget

After Improvements



# Two Contractual Agreements Secured by the ESCO Guarantee

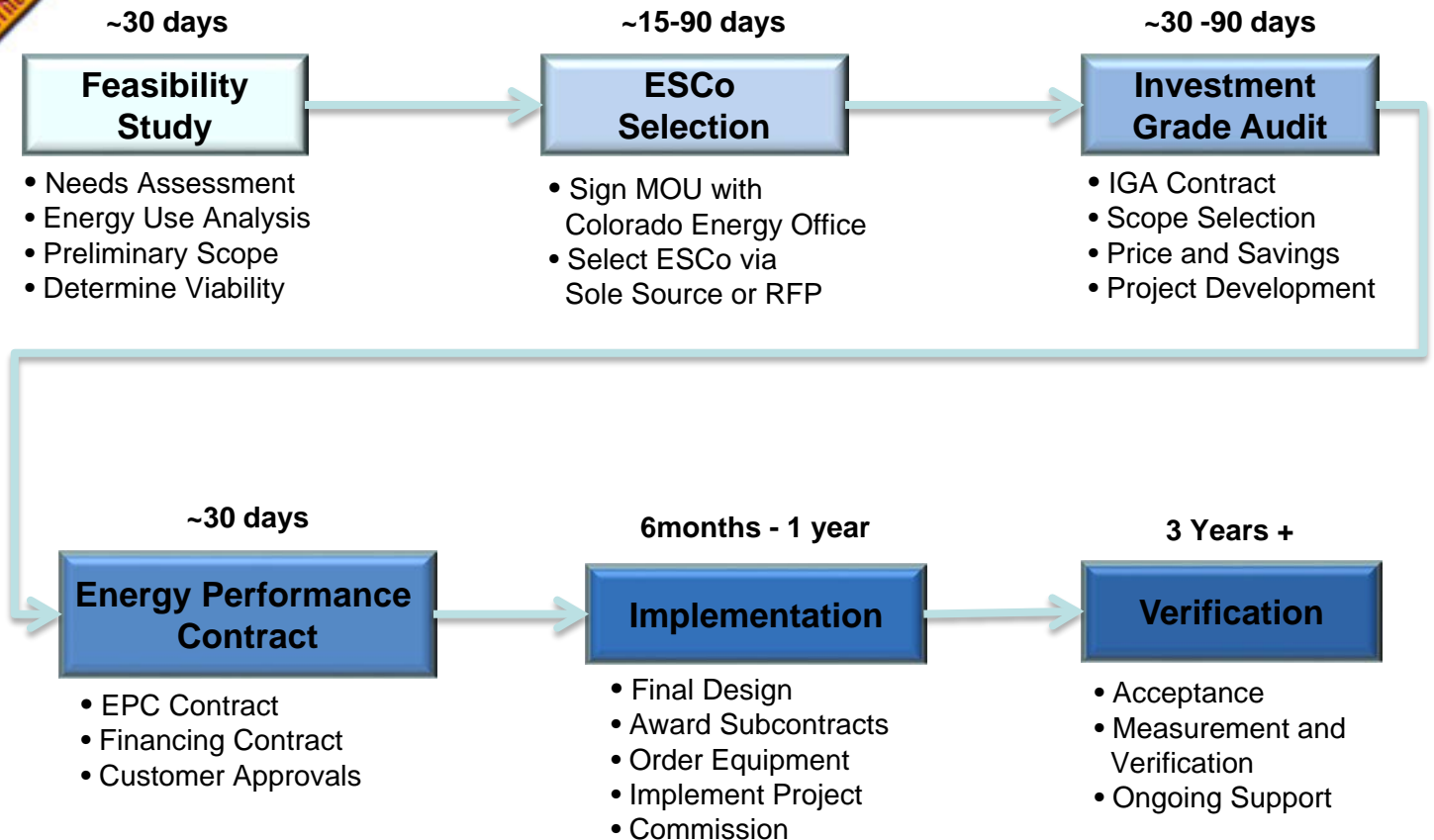
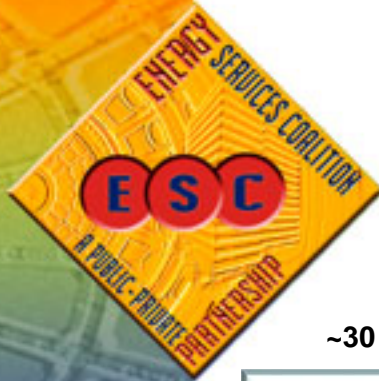




# Financing & Funding Your Project

- Lease-purchase finance agreement where savings meet annual payments
- Other financing sources (bonds, COPs)
- Internal “borrowing”
- Supplemental funds for cash infusion to expand the project funding and scope (utility rebates, grants, in-house funds, etc.)
- Blend lease-purchase financing with supplemental funds
- ESCO facilitates financing but does not profit from financing

# Energy Performance Contract Process



# Discussion

Questions  
Trends  
Opportunities  
Best Practices

**Mirka DellaCava**

*EPC Senior Program Manager*

Colorado Energy Office

303.866.3464

mirka.dellacava@state.co.us





# Colorado Department of Education

## Building Excellent Schools Today



# Building Excellent Schools Today – BEST

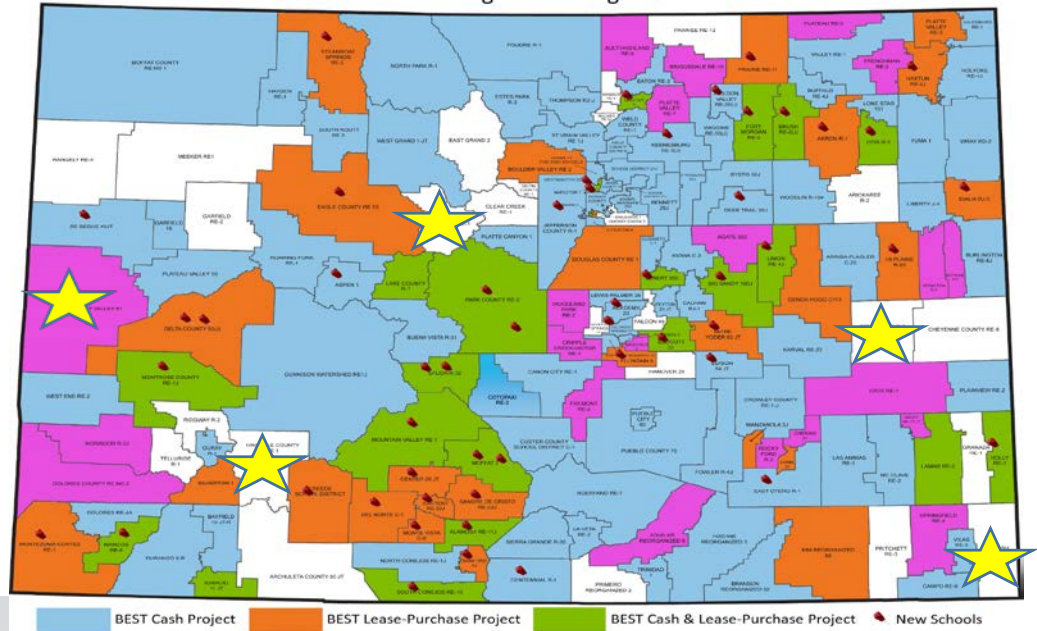
- Nine-member appointed advisory board
- Available to all public school districts, charter schools, institute charter schools, boards of cooperative educational services and the Colorado School for the Deaf and Blind
- Per statute, priorities are:
  - 1) Health, Safety, Security and Technology
  - 2) Overcrowding
  - 3) All other projects
- All applicants are required to provide matching money.

# Match Requirements

- The board shall seek to be as equitable as practicable by considering the total financial capacity of each applicant.
- A school district shall not be required to provide any amount of matching moneys in excess of the difference between the school district's limit of bonded indebtedness and the total amount of outstanding bonded indebtedness already incurred by the school district
  - The board may grant a waiver or reduction if:
  - The waiver or reduction would significantly enhance educational opportunity and quality;
  - The cost of complying with the matching moneys requirement would significantly limit educational opportunities; or
  - Extenuating circumstances deemed significant by the board make a waiver appropriate.

# Bragging

BEST has awarded  
319 grants in 135  
school districts.





# Bragging



BEST has generated nearly \$1.7 billion in capital projects and helped create nearly 30,000 jobs.



# Bragging

BEST has improved health, safety and security in 409 schools and for nearly 180,000 students.



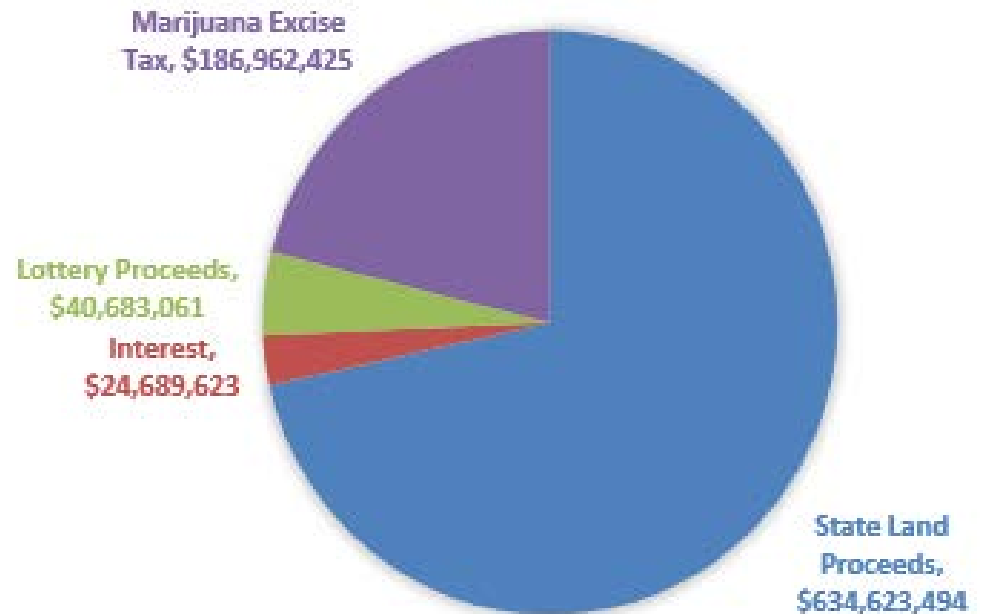


# Capital Construction Assistance Fund Revenue Sources

## \$886 Million in Total Revenue

- 71.5% State Land Proceeds
- 21% Marijuana Excise Tax
- 4.5% Colorado Lottery
- 3% Interest

### LIFE OF PROGRAM

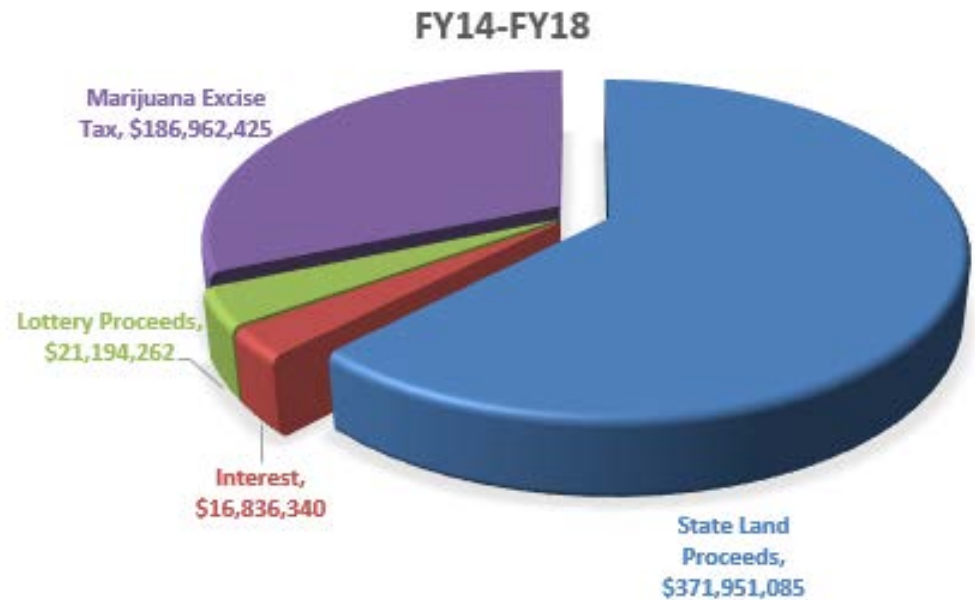
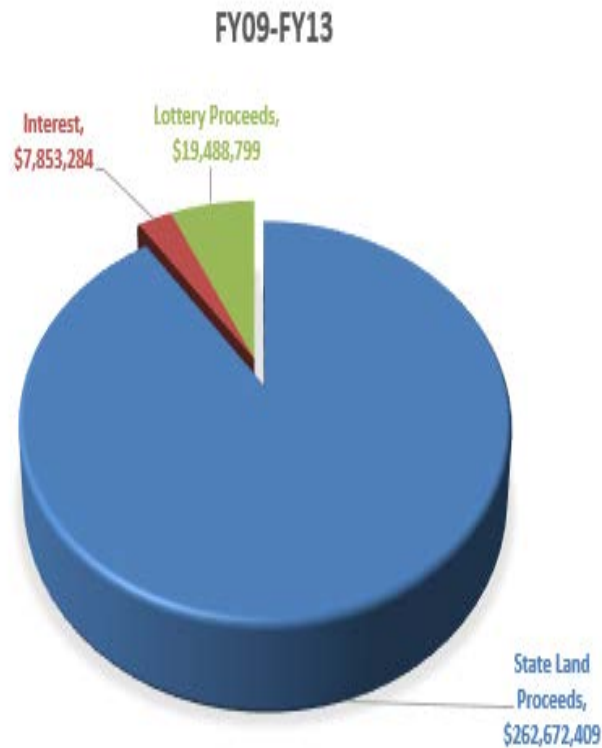


\*These revenues, plus matching grants, plus financing through Certificates of Participation has generated \$1.7 billion in projects.

\*Soon to be over \$2 billion. Tentatively +\$447M in FY19.

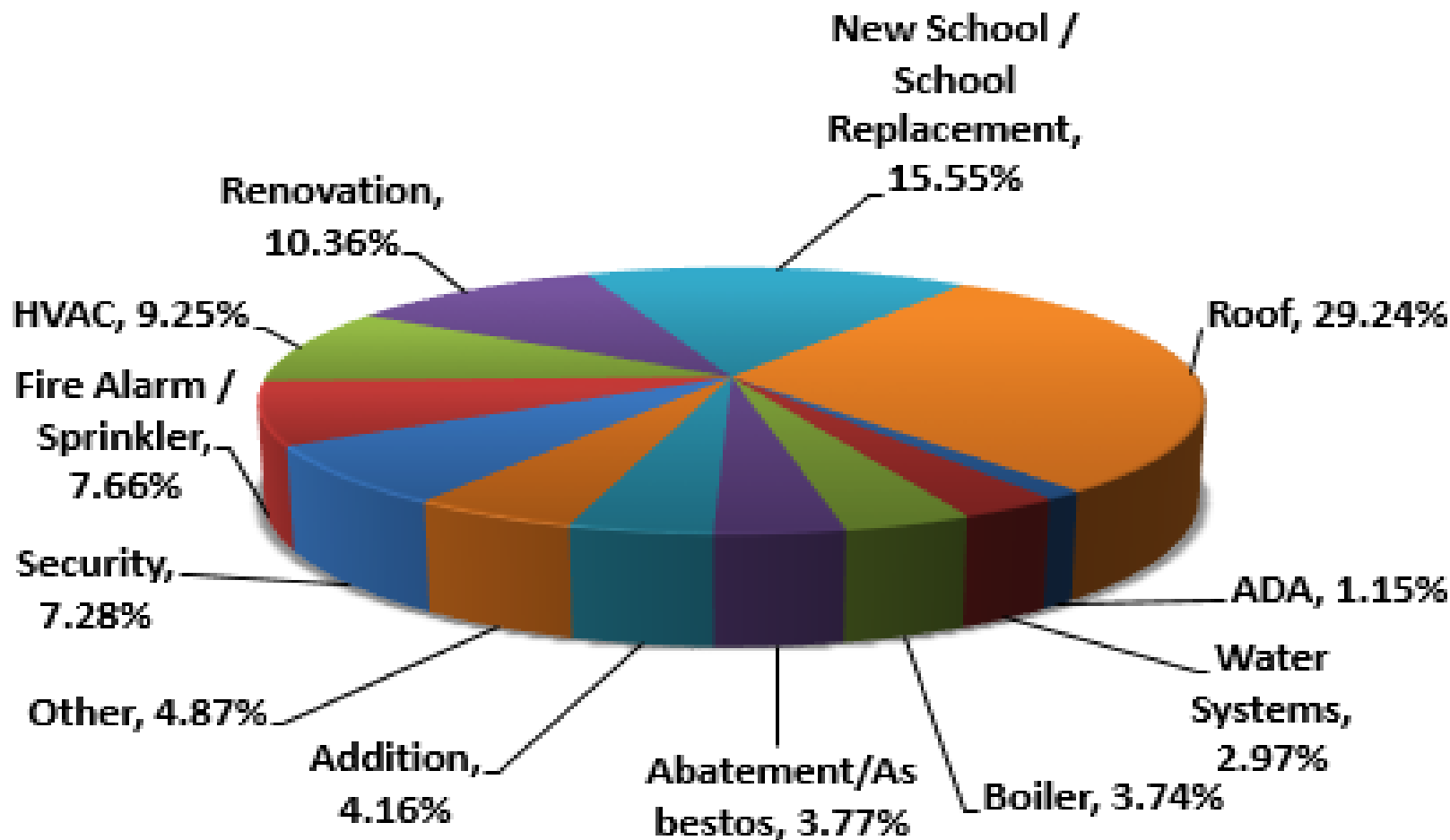
# Capital Construction Assistance Fund Revenue Sources

- Revenue from the Land Board peaked at \$92M in FY15. \$63M average
- Since FY14 Marijuana Excise Tax has accounted for 31% of revenues
- HB18-1070 increased amount of excise tax credited to the Assistance Fund from \$40M cap to 90% of all tax collected. \$54M in FY18





# Types of Projects



# Office of Capital Construction Funded Programs

**Charter School Capital Construction Program** funds are distributed to qualified charter schools based on pupil count. 12.5% of marijuana excise tax deposited into the Assistance Fund annually plus \$20 million annually from the State Education Fund

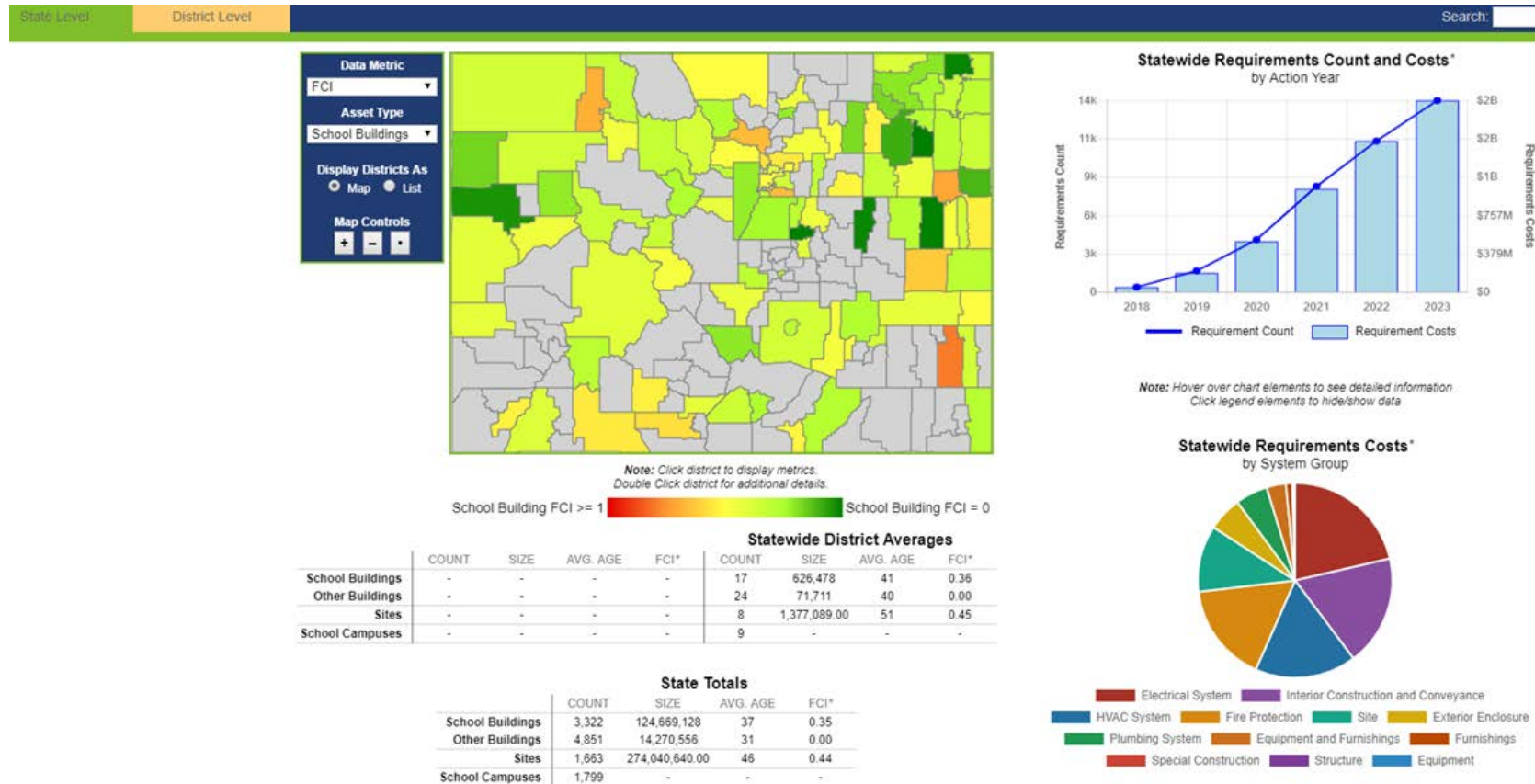
**Emergency Grants** are available for unanticipated events that threaten health or safety or render all or a significant portion of a public school facility unusable for educational purposes

## **Building Excellent Schools Today Grants**

- **Cash funds** are typically used to fund smaller projects, such as roofs, boiler replacements and fire alarms
- **Lease-Purchase funds** are typically used to fund larger projects, such as new schools, major renovations and additions. These grants are financed through Certificates of Participation and repaid with Assistance Fund revenues.

# Facility Insight Assessments

<https://api.vfafacility.com/CDOEDashboard/stateLevel/state.jsp>





## FY18-19 Grant Round Requested

- 52 applications from 44 unique districts or charter schools
- \$882M total project cost
- \$529M in State funds
- Last year 50 applications for \$630M in total project cost
- 21 projects over \$10M
- 19 projects under \$1M





## FY18-19 Grant Round

- Cash Grants:
  - \$84,947,023 (BEST)
  - + \$74,084,064 (match)
  - = \$159,031,087
- Lease/Purchase Grants:
  - \$190,039,093 (BEST)
  - + \$98,227,980 (match)
  - = \$288,267,073
- Total projects = \$447,298,160!
  - \$134M dependent on Bond Elections
  - \$68M in projects backup projects
  - 6 project bonds on Nov ballot

# The Future?

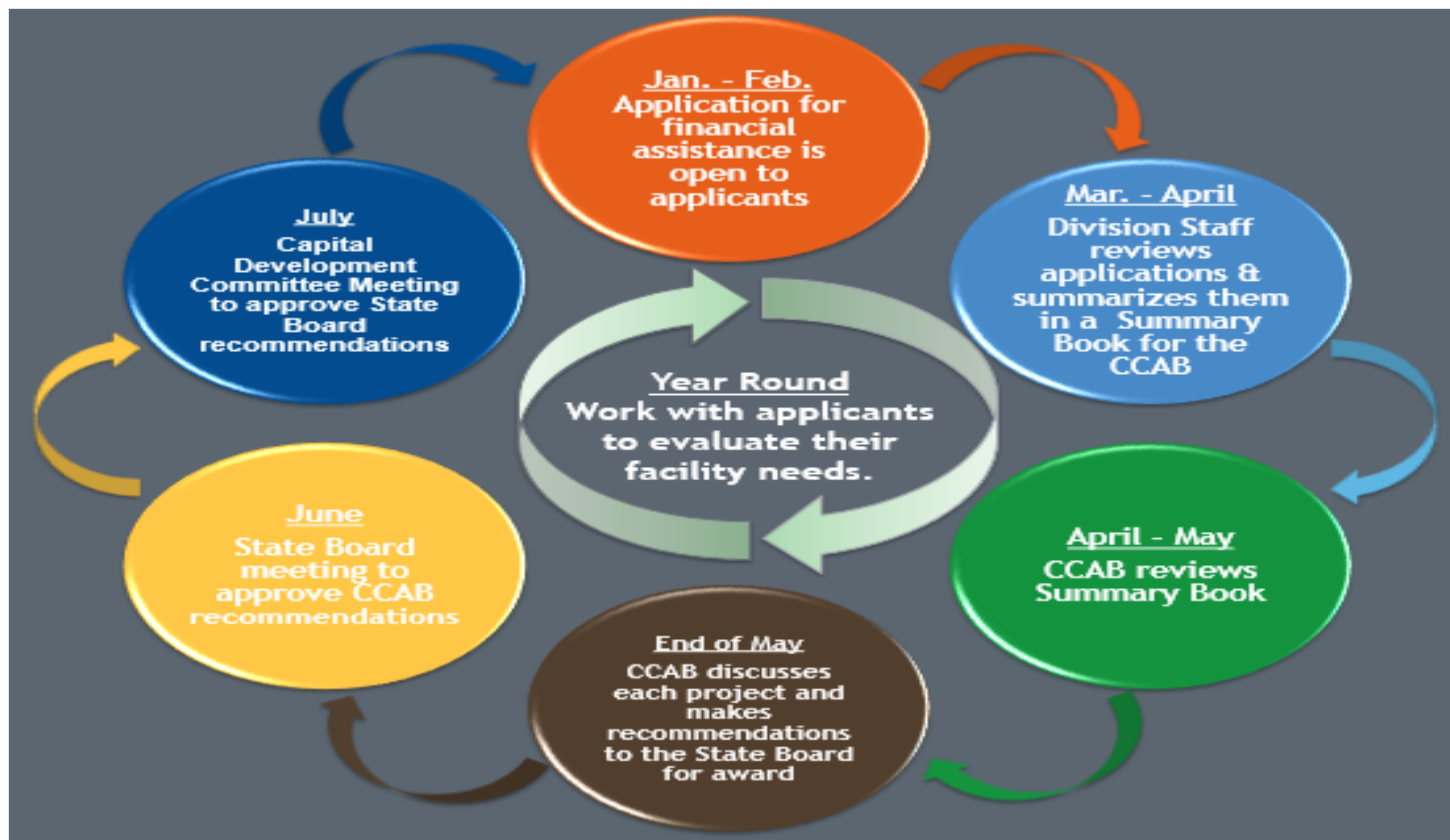


- Cash grants only
  - \$85M cash per year from BEST
  - \$20 - 40M from districts
  - \$100 - \$120M in projects
- Future of COPs
  - Average \$120M in revenues
  - \$85M in cash grants
  - \$50M debt service on prior COPs capped by statute
  - \$5M cap increase = approximately \$115M in new projects.

# Facility Insight Assessments

- In 2009, over 8,000 facilities assessed revealing \$13.9 billion in capital construction needs
- Began revisions in 2016. Complete 2021, and reassess every five years
- 258 schools assessed/~19 million sq. ft. (16% of total schools sq. ft. in Colorado),
  - Shows approximately 46% increase in needs
  - So far \$2.3 Billion in capital needs has been identified
- This does not account for schools maintained, rehabilitated or reconstructed outside of the BEST grant
- Grant applicants are prioritized for assessment
- CDE assessments are not Master Plans!
- CDE assessments are not code inspections!

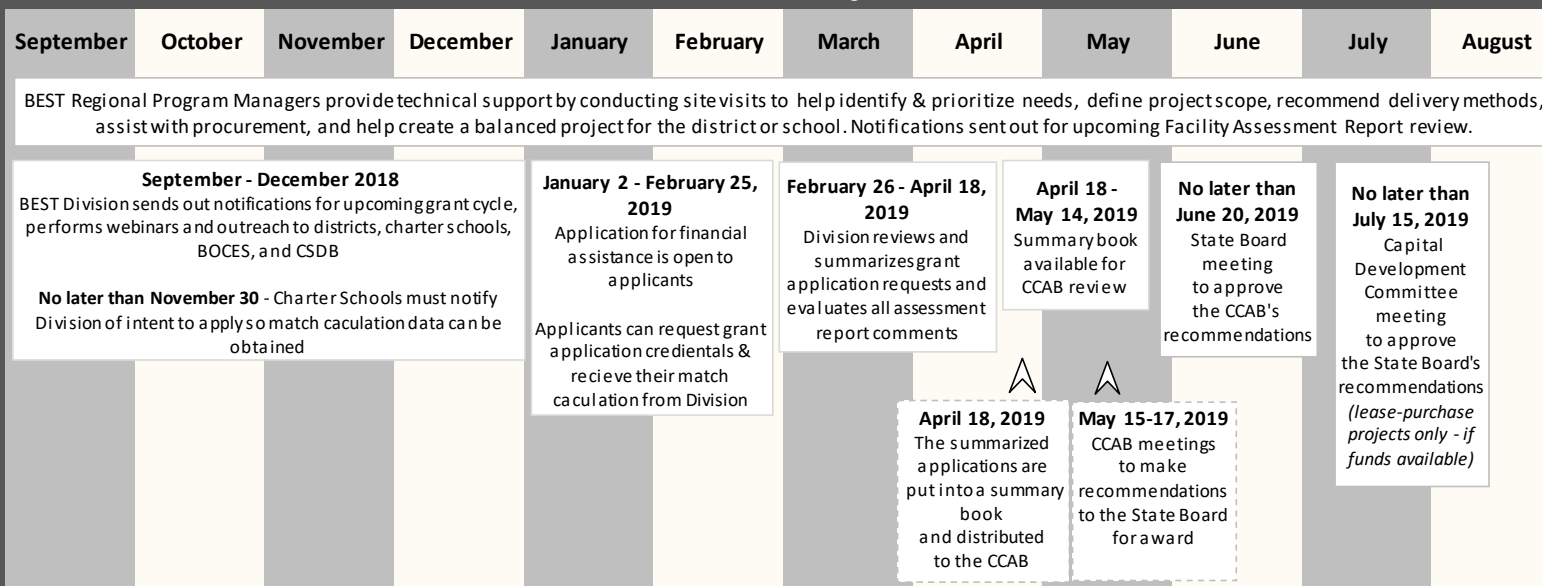
# BEST Grant Cycle Timeline





# BEST Grant Cycle Timeline

## BEST Financial Assistance Cycle Timeline FY2019-20





# #BESTschoolsCO



**CO Dept of Education** @codepted · 56m

.@ColoLottery's Starburst Awards recognize excellence in the use of Lottery funds for community & conservation projects, apply now for the 2018 award: [coloradolottery.com/en/about/starb...](http://coloradolottery.com/en/about/starb...) Limon Public School won the 2017 award: [coloradolottery.com/news/detail/to...](http://coloradolottery.com/news/detail/to...) #edcolo #BESTschoolsCO



**CO Dept of Education** @codepted · 5h

#DYK since it was created the BEST program has received nearly \$40M from @ColoLottery? That's nearly \$4M per year toward improving the learning environment in CO's public schools. [cde.state.co.us/cdefinance/cap...](http://cde.state.co.us/cdefinance/cap...) ... #edcolo #BESTschoolsCO



**CO Dept of Education** @codepted · Mar 9

BEST Office team, Capital Construction Assistance Board Member Brian Amack, State Land Board & @ColoLottery attended the groundbreaking for Brush High/Middle School in @BrushSchools. The \$60M project will receive \$27.6M in BEST funds [fortmorgantimes.com/fort-morgan-sc...](http://fortmorgantimes.com/fort-morgan-sc...) #edcolo #BESTschoolsCO



**'Move that dirt'**

Jeff Lancaster can stop asking Dr. Bill Wilson when dirt would finally start getting moved on the project to build a new high school and middle school... [fortmorgantimes.com](http://fortmorgantimes.com)





# Contact Info: [BESTSchools@cde.state.co.us](mailto:BESTSchools@cde.state.co.us)

## Director

Andy Stine

303-866-6717

[Stine\\_A@cde.state.co.us](mailto:Stine_A@cde.state.co.us)

## Office Manager

Priya Nye

303-866-2153

[Nye\\_P@cde.state.co.us](mailto:Nye_P@cde.state.co.us)

## BEST Regional Program Managers

Julia Fitzpatrick (NW)

303-866-6492

[Fitzpatrick\\_J@cde.state.co.us](mailto:Fitzpatrick_J@cde.state.co.us)

Cheryl Honigsberg (SE)

303-866-6915

[Honigsberg\\_C@cde.state.co.us](mailto:Honigsberg_C@cde.state.co.us)

Jay Hoskinson (NE)

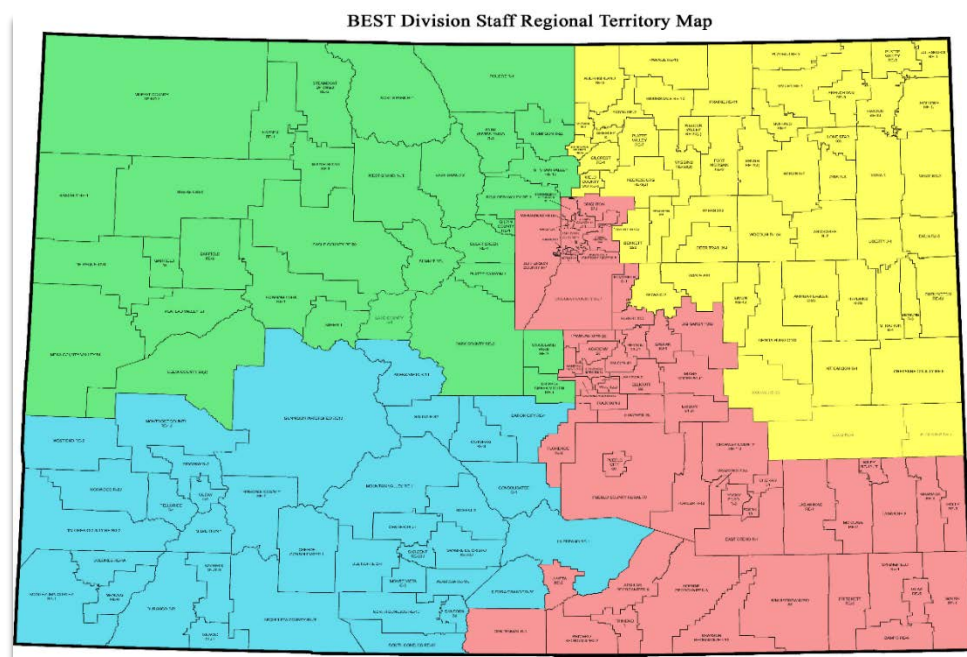
303-866-6920

[Hoskinson\\_J@cde.state.co.us](mailto:Hoskinson_J@cde.state.co.us)

Anna Fitzer (SW)

303-866-6184

[Fitzer\\_A@cde.state.co.us](mailto:Fitzer_A@cde.state.co.us)





# Contact Info: [BESTSchools@cde.state.co.us](mailto:BESTSchools@cde.state.co.us)

## Supervisor, Statewide Facility Assessment

Dustin Guerin 303-866-6263  
[guerin\\_d@cde.state.co.us](mailto:guerin_d@cde.state.co.us)

## Facility Insight Assessors

Lucas Wade, Northwest 720-413-8168  
[wade\\_l@cde.state.co.us](mailto:wade_l@cde.state.co.us)

Tim Cissell, Central 720-415-5077  
[cissell\\_t@cde.state.co.us](mailto:cissell_t@cde.state.co.us)

Marc Kimmett, Central 720-415-8986  
[kimmett\\_m@cde.state.co.us](mailto:kimmett_m@cde.state.co.us)

Josh Jones, Central 720-413-3905  
[jones\\_joshua@cde.state.co.us](mailto:jones_joshua@cde.state.co.us)

Sean Donahue, Central 720-415-5591  
[donahue\\_s@cde.state.co.us](mailto:donahue_s@cde.state.co.us)

Steve Fagan, Northeast 720-413-8122  
[fagan\\_s@cde.state.co.us](mailto:fagan_s@cde.state.co.us)

Daryl McVicker, Southeast 720-413-2739  
[mcvicker\\_d@cde.state.co.us](mailto:mcvicker_d@cde.state.co.us)

Mark Hillen, Southwest 720-413-8668  
[hillen\\_m@cde.state.co.us](mailto:hillen_m@cde.state.co.us)

