Contra Costa County

Proposal to Establish a Sustainability Fund

Report to the Contra Costa County Board of Supervisors

October 2021

Executive Summary

The following report recommends the Board of Supervisors establish a Sustainability Fund to overcome implementation barriers to accelerate sustainability projects that will reduce greenhouse gases (GHG) and reduce the impact on natural resources from County operations.

Human activity, including activities associated with County operations, is a contributor to GHG emissions that leads to climate change. Impacts of climate change—such as increased death, disease and injury from heat waves, floods, storms, and fires; decreased food quality and security; and increased morbidity and mortality—associated with air pollution are predicted to impact public health and disproportionately affect those who are socially and economically disadvantaged.

The Contra Costa County Climate Action Plan identifies how the County will achieve the AB32 GHG emissions reduction target in addition to supporting other public health, energy efficiency, water conservation, and air quality goals identified in the County's General Plan and other policy documents.

Although the County has implemented numerous sustainability projects to reduce our GHG emissions and reliance on fossil fuel, such as solar installations, electric vehicle charger installations, and replacing internal combustion engine fleet vehicles with electric vehicles, several barriers remain that have prevented the County from accelerating and implementing additional sustainability projects. The barriers include funding, time, authority, and competing priorities. In order to overcome these barriers and reduce lost opportunities, staff recommends the Board of Supervisors establish a Sustainability Fund. The Sustainability Fund will provide staff a valuable resource to leverage the funds to accelerate and implement sustainability projects.

Staff recommends the Board of Supervisors provide a 2021/2022 fiscal year allocation of **\$3 million** in general use funds to the Sustainability Fund. The Public Works Department, in close coordination with the County Administrator's Office, would administer the fund. Public Works would provide an annual update to the Board of Supervisors on the status of the fund and project implementation. In addition, Public Works will include updates in the interdepartmental Climate Action Task Force's semi-annual report to the Board of Supervisors.

Staff recommends that the initial expenditure from the Sustainability Fund would focus on projects identified in the Distributed Energy Resource Plan adopted by the Board of Supervisors. Projects would focus on County buildings and operations that would include renewable energy (solar), energy storage systems, energy reduction projects, electric vehicle chargers, and converting the County's fleet vehicles and equipment to electric. At their August 2021 meeting, the Sustainability Committee identified construction of additional electric vehicle charger infrastructure needed to support the conversion of the County's fleet to electric vehicles and providing public facing chargers at County facilities as the highest priority for the use of the Sustainability Fund.

Background

In September 2020, the Contra Costa County Board of Supervisors adopted a resolution declaring a climate emergency in Contra Costa County and **demanded accelerated actions** on the climate crisis and calls on local and regional partners to join together to address climate change. The resolution also called for the establishment of an interdepartmental Climate Action Task Force

("Task Force") to focus on "urgently implementing the County's Climate Action Plan." The Task Force's first two meetings included discussion around sustainability opportunities within County operations, facilities, and barriers to implementation. Several Task Force members suggested establishing a Sustainability Fund to support these opportunities. This suggestion was included in the Task Force's first report to the Board of Supervisors on March 30, 2021 to "Establish a Sustainability Fund that is supported by an annual investment and/or is structured as a revolving fund." The Board directed staff to research mechanisms used by other agencies when establishing their Sustainability Fund and report back to the Board on the findings.

In July 2021, staff presented a Report on Sustainability Fund mechanisms to the Sustainability Committee that focused on the research conducted by staff on how other jurisdictions structured their funds, the pros and cons of various fund options, and recommended a fund structure that could work within the structure of Contra Costa County. Although the Committee supported the idea of a Sustainability Fund, the Committee directed staff to include additional information on the purpose and need for sustainability improvements and the link to public health. The Committee then directed staff to make the revisions and refer the revised report to the Board of Supervisors for further consideration.

Regulatory Setting: Related Policies, Plans, and Guidance

Before discussing the proposal for a Sustainability Fund, it is important to describe the regulatory setting related to greenhouse gas (GHG) emissions and climate change. Several State, Regional, and County level documents address climate change that set goals, objectives, actions, targets, and priorities.

The documents provide a foundation to develop the concept of a Sustainability Fund and will help address current barriers (discussed later in this report) specific to Contra Costa County. For a more comprehensive list of regulations and a more thorough narrative on these documents, please refer to Chapter 2 of the County's Climate Action Plan.

It is also worthy to mention that based on the continued climate impacts from human activity, additional regulations are coming where many voluntary sustainability efforts will become mandatory. A Sustainability Fund could help the County get a jump on compliance from any mandatory regulations related to sustainability and climate change.

State Level

 AB32 – California Global Warming Solutions Act requires the California Air Resources Board to develop regulatory and market mechanisms that will reduce GHG emissions to 1990 levels by 2020.

- SB375 Sustainable Communities Strategy, aims to reduce GHG emissions by linking transportation funding to land use planning, with an aim to minimize vehicle miles traveled.
- EO-S-3-05 establishes GHG emissions reduction target of 80% by 2050.
- EO-B-30-15 establishes GHG emissions reduction target of 40% by 2030.

Regional Level

 Bay Area Air Quality Management District – adopted thresholds of significance for GHG emissions. Local governments in the environmental review process for plans and projects use these thresholds.

County Level

- County General Plan Goals (Envision Contra Costa 2040) The County's General Plan identifies goals related to public health, energy efficiency, water conservation, and air quality. The General Plan update currently underway further identifies sustainability goals.
- Contra Costa County Climate Action Plan The Climate Action Plan identifies how the County will achieve the AB32 GHG emissions reduction target in addition to supporting other public health, energy efficiency, water conservation, and air quality goals identified in the County's General Plan and other policy documents.
- Contra Costa County Board of Supervisors Resolution No. 2020/256 the resolution declares a climate emergency and demands accelerated actions on the climate crisis and calls on local and regional partners to join together to address climate change.
- Distributed Energy Resource Plan Focuses on GHG reduction efforts through solar installations, energy storage systems, use of electric vehicles, and installation of electric vehicle chargers.
- Energy Reduction Plan (currently being drafted) On January 23, 2001, the Board of Supervisors directed the County Administrator's Office to develop an Energy Reduction Action Plan for all County departments and offices to reduce electrical use by 10% with an overall minimum energy use reduction of 8%. Advancements in technology and updated energy codes and appliance efficiency standards over the last 20 years, have allowed the County to achieve energy conservation and position itself to address energy efficiency goals identified by the 2021 Energy Reduction Action Plan.

Need for Sustainability

Scientific consensus holds that human activity is increasing atmospheric GHG concentrations to levels far above what we would expect given natural variability. These gases are released as byproducts of fossil fuel combustion, waste disposal, energy use, land use changes, and other

human activities. GHGs, such as carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O), create a blanket around the earth that allows light to pass through but traps heat at the surface, preventing its escape into space. While this is a naturally occurring process known as the greenhouse effect, human activities have accelerated the generation of GHGs beyond natural levels. The overabundance of GHGs in the atmosphere has led to an unexpected warming of the earth and has affected the earth's climate system.

In the coming years, scientists predict dramatic changes to take place in the world's climate; changes that are likely to have significant consequences for the health and economy of Contra Costa County (see Chapter 2 of the Climate Action Plan for more details). Specifically, these changes are predicted to cause increases in droughts, heat waves, sea level rise, degraded air quality, infectious disease and allergies, and extreme weather events. The County prepared its Climate Action Plan (CAP) to reduce the emissions of greenhouse gases (GHG) from the unincorporated areas of Contra Costa County to help slow, and eventually reduce, these impacts.

While successful implementation of the CAP will allow Contra Costa County to do its part to help reduce climate change on a global scale, the CAP will not directly or immediately affect local weather conditions. However, implementing the individual GHG reduction actions contained in the CAP does have the potential to directly and immediately improve the health of Contra Costa County residents by making changes to the built environment and to the social, economic, and ecological conditions that affect health. These potentially better health outcomes are referred to as health co-benefits.

Contra Costa Health Services (CCHS) undertook an analysis to identify these health co-benefits in order to give policy-makers and the general public a richer understanding of the proposed GHG reduction actions beyond their potential to reduce GHG emissions, and to identify which actions should be prioritized for implementation based on their potential to improve public health. Additionally, the evaluation specifically considered the impact of implementing the GHG reduction actions on reducing health inequities. This is especially appropriate since many of the impacts of climate change—such as increased death, disease and injury from heat waves, floods, storms, and fires; decreased food quality and security; and increased morbidity and mortality—associated with air pollution are predicted to disproportionately affect those who are socially and economically disadvantaged (additional information on CCHS's analysis of health co-benefits can be found in Appendix A of the Climate Action Plan).

In summary, the County needs to do its part to reduce GHG emissions from its operations through sustainability improvements to reduce its impact on climate change and public health that has a disproportional effect on those who are socially and economically disadvantaged.

The purpose of this report is to discuss the need for a Sustainability Fund to support investments in County operations and facilities that further the County's environmental sustainability and climate change goals as addressed in the County's Climate Action Plan.

Need for a Sustainability Fund

As mentioned in the "Background" section of this report, staff views the establishment of a Sustainability Fund as a critical implementation tool to overcome some of the barriers identified by the interdepartmental Climate Action Task Force in the County's efforts to implement sustainability opportunities to reduce GHG emissions within County operations and facilities.

Although the County has been able to implement some sustainability projects and operational improvements using various available implementation tools, the County's efforts are currently falling short of expectations and there have been many missed opportunities due to the following barriers:

Barriers to Sustainability Implementation for County Operations and Facilities

1. Funding – Funding is the single most mentioned barrier to implementing sustainability improvements by County Department Heads. Without a source of funding, the work simply will not happen. To implement a sustainability project, it takes concurrence by the Department Head or designee on the value of the improvement and a budget authorization for Public Works to complete the work. During the interdepartmental Climate Action Task Force meetings, Department Heads agreed that sustainability projects were a value added activity to address climate change. The issue with moving forward with implementation of sustainability projects or actions came down to available funding.

A few implementation tools used in the past avoided the funding barrier through financing programs that did not require the County to provide the capital outlay for the sustainability improvements. These tools included the Power Purchase Agreements for solar installations, on-bill financing for energy reduction projects, and Energy Savings Performance Contracts (ESPC) also for energy reduction projects. We continue to use the Power Purchase Agreements for solar projects, however, the on-bill financing and ESPC tools are no longer available due to financing and contracting constraints for public agencies.

Another implementation tool that can overcome the funding barrier is grant funding. There are numerous sustainability/climate change grants available for public agencies. Unfortunately, many grants require a local match or will only fund portions of a project requiring the County to complete the funding package with other funds. For example, grants from the Bay Area Air Quality District for the installation of electric vehicle chargers will not fund the additional infrastructure needed to service the chargers (such as conduit, panel upgrades, etc.). The costs of the additional infrastructure is typically beyond a Department's budget and therefore we have seen many missed opportunities to make use of these grants. As a result, we have missed opportunities to convert our fleet vehicles

to electric vehicles when they are due for lifecycle replacements due to the lack of sufficient electric vehicle chargers.

Sustainability Fund Solution: As recommended later in this report, the establishment of a Sustainability Fund would help break down at least some of the funding barriers by providing a general use, predictable annual allocation of funds for the sole purpose of implementing sustainability improvements. The funds would also be used as leverage to seek grant funds and help complete funding packages for sustainability projects. A Sustainability Fund would help mitigate the loss of the on-bill financing and ESPC tools previously used for sustainability improvements.

2. Authority – Although Public Works is relied on to identify and implement sustainability projects for County buildings and other services, it lacks the authority to fully develop and unilaterally implement sustainability projects and efforts. How County building improvements and Department operations are funded differ depending on the Department and the program funding source. Some Departments are funded with General Funds while others receive their operating revenues from State or Federal sources and are restrictive in their uses. With these many funding sources and decentralized program budgeting, the authority to approve sustainability efforts for various Departments is decentralized and inconsistent. Although Public Works is responsible for implementing sustainability improvements, such as LED retrofits and electric vehicle chargers, Public Works does not have the authority to prioritize and approve moving forward with a project. Instead, Public Works relies on a decentralized system of County Department programs to authorize sustainability efforts.

To overcome the implementation barrier of authority, Public Works has often times partnered with the customer departments to deliver the project with methods that don't require the Department to provide funding. This eliminates the issue with authority to approve funding for the sustainability efforts. The Department's authority to approve a project then depends on the merits of the project. As mentioned previously, Departments Heads have indicated a support for sustainability improvements to reduce the County's GHG emissions. By removing the budget authority issue for Departments, it was then easier for Public Works to convince Departments to partner on sustainability improvements.

Sustainability Fund Solution: As recommended by staff later in this report, the established Sustainability Fund should be funded with general use funding, such as General Funds, with budgeting authority granted by the Board of Supervisors to the County Administrator's Office. Setting up the Sustainability Fund this way centralizes the budget decision making and authorization improving the possibility of Departments partnering with Public Works to implement sustainability efforts.

3. Time – Some of the implementation tools that are currently being used have unacceptable timeframes that do not address the Board's direction on demanding accelerated actions on climate change. The purpose of the Climate Action Emergency Resolution was to address the issue of time and expedite efforts. The County must accelerate its sustainability actions to reduce GHG emissions now and not wait until it is too late.

Some of the implementation tools used by Public Works to implement sustainability improvements involve asset lifecycle replacement opportunities. When an asset is at the end of its useful life, the County has the opportunity to replace the asset with a more sustainable and climate friendly asset. Lifecycle replacements are typically funded through depreciation of the asset over time. Assets that impact climate change may have a long useful life that may extend ten, twenty, or thirty years or more. During that timeframe, the asset will continue to contribute to GHG emissions and impact climate change and public health. Unfortunately, lifecycle replacement opportunities are sometimes the only method to replace an asset if no other funding source is available.

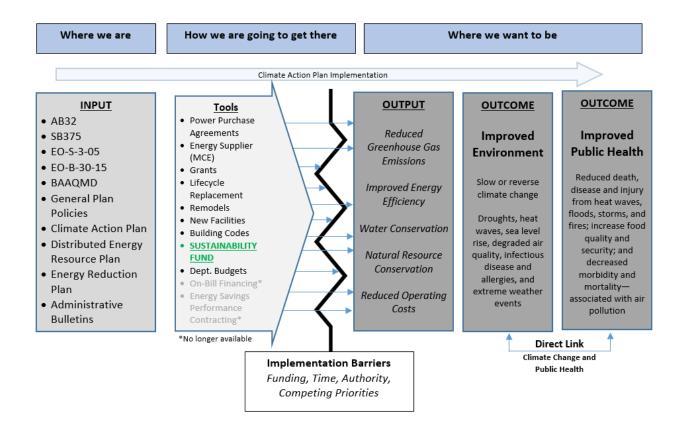
Finally, climate change may dictate stronger regulatory mandates to accelerate our efforts to reduce GHG emissions. We may be nearing a tipping point where it will be much more difficult to reverse the effects of human behavior on the climate. With some of our current implementation tools, the timeframe for improvements may exceed the time we reach a tipping point.

Sustainability Fund Solution: A general use Sustainability Fund would help accelerate projects. Rather than waiting for lifecycle replacement opportunities, or relying on unpredictable grant opportunities, or seeking funds to complete a funding package, the County will have the ability to decide to use the Sustainability Fund to initiate a project or program immediately. Public Works has already identified several high value energy reduction projects at various County facilities and identified several prime locations for installing electric vehicle charging infrastructure that could be implemented immediately. By doing so will also compress the time to convert the County's fleet to zero emission vehicles and reduce the missed opportunities to switch an internal combustion engine vehicle to an electric vehicle due to lack of charging infrastructure. The Sustainability Fund will also allow the County to get a jump on implementation of sustainability projects ahead of upcoming GHG emission reduction mandates.

4. **Competing Priorities** – Often times, sustainability efforts are hampered by the competing priority dilemma. Department Heads must decide to allocate staffing and financial resources to either meeting the Department's primary mission or to addressing sustainability. It is a difficult decision. If your customer is depending on your services, yet

you have had to reduce your primary services to allocate staffing and financial resources to sustainability efforts, it can negatively impact the customer's opinion of your services. Although sustainability efforts benefit all people on the planet, there are many that may not look at it that way. Instead they will conclude that the County is not delivering the expected service.

Sustainability Fund Solution: By establishing a Sustainability Fund, the issue of competing priorities is reduced or removed from Department Heads and centralized under the Board of Supervisors and the County Administrator. The Board of Supervisors will make a decision for all County Departments that sustainability efforts are important and allocate resources appropriate to address the issue. By doing so, the various Department Heads will have an additional tool to overcome competing priorities and implement sustainability best practices.



Implementation Tools for Sustainability Improvements

The goal of the Sustainability Fund is to add to, or use in conjunction with, the various existing implementation tools available to the County to reduce our GHG emissions and improve public health. As mentioned earlier, Public Works has been able to implement many sustainability projects using

implementation methods currently available. If the Board of Supervisors approves a Sustainability Fund, staff can used the fund to accelerate many sustainability projects and avoid missed opportunities. As described above, the Sustainability Fund helps break down implementation barriers. Staff is recommending that the focus of the Sustainability Fund be on Government Operations as shown in Chapter 4, Goal 6 of the County's Climate Action Plan.

The following is a summary of the current implementation tools, and if approved by the Board of Supervisors, how the Sustainability Fund would complement these tools:

- 1. **Power Purchase Agreements** The County has used Power Purchase Agreements for the installation of solar panels. The Sustainability Fund would complement this financing mechanism by adding features to a solar installation that will aid in the installation of electric vehicle chargers or energy storage solutions.
- 2. **Energy Supplier** The County currently has MCE as its clean energy provider. MCE offers various incentives for sustainability improvements such as energy reduction projects. The Sustainability Fund could be used to cover some costs necessary to make use of the MCE incentives.
- 3. **Grants** The Sustainability Fund will be used to fund any local match requirements or ineligible costs associated with a sustainability grant. Having a source of local match funding will provide County staff the seed money to go after various grant programs.
- 4. **On-Bill Financing** Although this was a tool used in the past to finance energy reduction projects, this tool is no longer available due to financing constraints for public agencies. On-Bill Financing allowed the County to implement energy reduction projects with no upfront capital outlay. The Sustainability Fund could replace this implementation tool by fully funding high value projects.
- 5. Energy Service Companies/Energy Savings Performance Contracting Similar to On-Bill financing, Energy Savings Performance Contracting, which allowed energy reduction projects to move forward without an upfront capital outlay, is no longer available due to contracting constraints for public agencies. The Sustainability Fund could replace this implementation tool by fully funding high value projects.
- 6. Lifecycle Replacement Opportunities As facilities and County assets reach the end of their service life, they are replaced with facilities and assets meeting current codes related to sustainability. Unfortunately, this may take years. The County could use the Sustainability Fund to accelerate the conversion of certain high value facilities or assets to address GHG emissions. For example, diesel generators could be replaced more rapidly with zero emission energy storage systems. By acting prior to the end of the asset's service life, eliminates the GHG emissions for the remaining life of the asset, thus having a positive effect on the environment and public health.
- 7. **Remodels** As Departments request facility remodels, the remodels are completed using current building codes, including sustainability requirements. Although the building codes specify the minimum requirements, the Sustainability Fund could be used to supplement costs to improve the use of sustainable elements such as installing upgraded equipment that exceeds current codes related to sustainability.
- 8. **New Facility Construction** The County has a policy requiring all new County facility construction meet the highest LEED certification practical. The building would be designed to meet the latest building codes related to sustainability. The Sustainability Fund could be used to go above and beyond minimum

standards if it would be of high value towards going net zero and existing building replacement funding is not available or restricted to minimum standards.

- 9. **Building Codes** Building codes dictate minimum standards for new building construction for the County and general public. Many of the tools listed above are specific to retrofitting existing County assets. Building codes are used to ensure that all new construction would meet the latest sustainability requirements including new County facilities. As mentioned under several sections above, the Sustainability Fund could be used to supplement other funding to upgrade equipment beyond the minimum requirements in the building codes.
- 10. **Department Budgets** Many Departments allocate funding for building improvements in their department budgets. The Sustainability Fund could be used to supplement Department funds to improve or expand the scope of projects to make use of economy of scale and make sustainability improvements.

Methods and Strategies

In order to achieve the state-recommended GHG reduction targets, Contra Costa County will need to implement the goals, policies, and actions set forth in Chapter 4 of the Climate Action Plan. The County structured its sustainability strategy to reduce GHG emissions from its operations around the following six topic areas:

- 1. Energy Efficiency and Conservation
- 2. Renewable Energy
- 3. Land Use and Transportation
- 4. Solid Waste
- 5. Water Conservation
- 6. Government Operations

Staff recommends the Sustainability Fund investment be focused initially on Government Operations (GO) Measures of the CAP addressing Measures GO 1 through GO 5, with initial focus on GO 2 (Actions 1,2,3) and GO 5 (Actions 1,2). These goals and actions are summarized below and the initial actions underlined. These action items reduce GHG emissions at County facilities and operations through energy use reduction, renewable energy (solar), conversion of fleet vehicles to electric vehicles, and improve the availability of electric vehicle chargers for Department fleet vehicles and for public use at County facilities.

Measure GO 2: Government Operations - Energy Efficiency

Promote energy-saving tools and practices.

Action Items:

- 1. Continue to conduct audits of existing and recently acquired facilities, prioritize improvements, and upgrade facilities to save energy.
- 2. Increase solar electricity use for County and agency operations.
- 3. Develop policies related to powering off lights and appliances after hours and after dark.
- 4. Site facilities that have more than 50 personnel in close proximity to infrastructure and services that support alternative commute modes.

Measure GO 5: Government Operations – CAP Implementation Support

Establish budgeting and administration practices to support the Climate Action Plan. Action Items:

- 1. Ensure that the Environmental Purchasing Policy includes:
 - Green office supplies: Purchase energy-efficient appliances and recycled/recyclable and compostable supplies.
 - Green fleet and equipment: Evaluate progress of hybrid and compressed natural gas (CNG) fleet measures in the 2007 Municipal Climate Action Plan. Create purchase orders for replacing less efficient vehicles with fuel-efficient vehicles (e.g., hybrids, electric vehicles, and biofuel vehicles) and old office machines with energy- efficient machines.
- 2. Reduce County fleet use of traditional fuels 25% by the year 2020 *.
- 3. Evaluate progress of Measure 13 from the 2007 Municipal Climate Action Plan (30% of employees telecommuting two days a week). If the target has not been achieved, establish policies to further support telecommuting and flexible work hours for employees. If the target has been achieved, consider increasing the target to 40% employee participation.
- 4. Develop a process for sharing information on government operations' energy and water use and efficiency and conservation measures with the public as an educational tool.
- 5. Advocate for regional, state, and federal activities that support GHG emissions in the county, including but not limited to the following:
 - Work with BAAQMD to support reductions in process emissions from industrial entities.
 - Where appropriate, adopt language in the County's state and federal legislative platforms that directs support and lobbying for local GHG reductions.
 - Advocate for additional transit funding sources concurrently with the development of priority development areas.

The initial sustainability efforts addressed in Measures GO 1 through GO 5 are further detailed in the Distributed Energy Resource Plan adopted by the Board of Supervisors. Public Works has already identified many high value sustainability projects that include electric vehicle chargers and energy reduction projects that will have an immediate impact on our GHG emissions and impact on public health. If the Board of Supervisors approves an allocation to the Sustainability Fund, Public Works can immediately begin implementation of the high value projects. In parallel, Public Works, working with the County Administrator's Office, would continue to evaluate and identify high value sustainability projects that fit the Government Operations measure in the Climate Action Plan. As high value projects are exhausted related to energy efficiency, solar, and electrifying the County vehicle fleet, including chargers, the Board of Supervisors may wish to revisit the focus of the Sustainability Fund and prioritize other Government Operations action items, such as to accelerate implementation of water conservation measures.

The following tables provide the initial list of priority projects identified by Public Works. The estimated cost of these projects totals approximately \$5.5 million. The tables will be updated as new projects are identified, prioritized, and approved in partnership with the County Administrator's Office.

^{*} The CAP is being updated with new goals and action items. The Sustainability Committee suggested that the new goal is to eliminate the use of traditional fuels for the County's fleet vehicles.

Proposed Electric Vehicle Chargers – County Building Locations

	Address	City	Department(s)	Approx. # of County Fleet/Po of Light Vehicles	Proposed New EV Chargers	Cost Estimate	Potential MCE Rebate	Potential Net Cost	Existing Conduit In Place - Parking area to electrical room	Type of Solar System - Roof, Carport, or Both	Cumulative Total
1	50 Douglas Dr	Martinez	Health, Probation, Child Support	34	10	150,000	(30,000)	120,000	Yes	Both	\$150,000
2	30 Muir Rd	Martinez	DCD	12	8	120,000	(24,000)	96,000	No		270,000
3	255 Glacier	Martinez	Public Works	11	4	60,000	(12,000)	48,000	Yes	Carport	330,000
4	4549 Delta Fair	Antioch	Child Support, Probation	10	8	156,600	(24,000)	132,600	No	Roof	486,600
5	4545 Delta Fair	Antioch	EHSD	10	8	120,000	(24,000)	96,000	Yes	Carport	606,600
- 6	595/597 Center	Martinez	Health	6	13	130,000	(39,000)	91,000	Yes	Both	736,600
7	2530 Arnold	Martinez	Assessor, Health, Sheriff, Tax, Risk	6	6	90,000	(18,000)	72,000	No	Ground	826,600
8	2475 Waterbird Way	Martinez	Public Works	4	2	120,000	(6,000)	114,000	No	Roof	946,600
9	1960 Muir	Martinez	Sheriff	4	6	120,000	(18,000)	102,000	Yes	Carport	1,066,600
11	202 Glacier Dr	Martinez	Probation	4	4	100,000	(12,000)	88,000	Yes	Carport	1,166,600
12	151 Linus Pauling	Hercules	Sup. Glover, EHSD	3	4	60,000	(12,000)	48,000	Yes	Carport	1,226,600
13	5555 Giant Hwy	Richmond	Sheriff	3	2	130,000	(6,000)	124,000	No	Both	1,356,600
14	4491 Bixler Rd	Byron	Probation	3	4	75,000	(12,000)	63,000	No		1,431,600
15	1305 MacDonald Ave	Richmond	EHSD	2	8	120,000	(24,000)	96,000	No	Roof	1,551,600
16	12000 Marsh Creek Rd	Clayton	Sheriff	2	2	70,000	(6,000)	64,000	No		1,621,600
17	4800 Imhoff Place	Martinez	Animal Services	1	2	120,000	(6,000)	114,000	No		1,741,600
18	1650 Cavallo Rd	Antioch	EHSD		2	120,000	(6,000)	114,000	No	Roof	1,861,600
	Proposed Totals					\$1,861,600	(\$279,000)	1,582,600			
		No solar PV	system		Engineering	\$395,000					

\$2,256,600

Will be deleted - Closing building

NDTE: This cost estimate does not include costs for permits, ADA, or electrical infrastructure such trenching, conduits, wiring, or electrical panel upgrades.

> "Engineering" budget item is intended to evaluate and develop cost estimates for above items at each proposed building site.

Energy Reduction Projects – Priority List (LED conversions and automated lighting controls)

Square Feet	Facility	Retrofit \$	Cumulative \$	EUI*
115,091	2530 Arnold	\$538,614		9.30
92,024	50 Douglas	\$430,663	\$969,276	10.70
42,736	595 Center	\$200,000	\$1,169,276	38.50
51,630	597 Center	\$241,623	\$1,410,899	12.60
47,440	1305 McDonald	\$222,014	\$1,632,914	9.90
52,800	4545 Delta Fair	\$247,098	\$1,880,012	14.30
92,394	4549 Delta Fair	\$432,396	\$2,312,409	11.20
41,295	151 Linus Pauling	\$193,256	\$2,505,665	3.4**
24,534	1650 Cavallo	\$114,817	\$2,620,481	21.30
34,554	40 Douglas	\$161,709	\$2,782,191	19.10
35,305	10 Douglas	\$165,224	\$2,947,414	9.30
629,803	TOTAL	\$2,947,414	TOTAL	

^{*} Electricity Utilization Index - kWh/square feet/year

^{**} low EUI reflects large carport solar

Solar Installations Completed (Phase I) and Underway (Phase II)

Site Name	Department	Rooftop kW	Carport kW	Energy Storage kW/kWh	EV CHARGER READY	TARGET COMPLETION DATE
50 DOUGLAS DR, MARTINEZ	Multiple	242	324		YES	Complete
30 MUIR RD, MARTINEZ	DCD	166			*N/A	Complete
597 CENTER, MARTINEZ	HSD	121			**YES	Complete
595 CENTER , MARTINEZ	HSD	58	376	500/950	YES	Complete
1000 WARD ST, MARTINEZ	Sheriff's Office	337		500/1800***	N/A	October, 2021
2530 ARNOLD DR, MARTINEZ CA	Multiple		526	500/950	Proposed	October, 2021
4545 DELTA FAIR, ANTIOCH	EHSD		437	****	Proposed	October, 2021
4549 DELTA FAIR, ANTIOCH	EHSD		212	***	YES	October, 2021

^{*} N/A because it is rooftop Phase II Projects

Note: Construction on Phase II projects will be completed within the next two months however the Commercial Operation Date needs to be the same for all four and the critical path will be the installation by PG&E of the new transformer at 2530 Arnold which is slated to occur in early September. Interconnection of the solar/storage system will be coincident with the transformer installation. This will be followed by system commissioning and performance validation resulting in the October COD.

Going forward, the County will be pursuing Phase 3 projects with SunPower. These projects have been selected in large part due to California Energy Commission Equity-Resiliency Self Generation Incentive Program (ER-SGIP) grants recently awarded to SunPower on the County's behalf for battery storage and a resiliency component. The generous grants cover the majority of the cost of the installation and the savings to the County are guaranteed. When done in conjunction with a new solar PV system, the battery storage system qualifies for the Federal Investment Tax Credit and depreciation making these PPAs very attractive in terms of savings potential to the County.

Public Works anticipates the need for a Professional Service budget (estimated at \$250k) for energy engineering services associated with developing additional prioritized distributed energy resource (DER) projects that will be needed to fulfill the goals of the Climate Action Plan.

Plan of Evaluation

As with any strategic initiative, feedback on the success of the initiative is critical for proper management, decision making, and transparency. The following actions are recommended to keep the Board of Supervisors, Sustainability Committee, and Sustainability Commission informed on the Sustainability Fund and project implementation.

Check-ins

Public Works will work with the Sustainability Coordinator to update the Sustainability Commission on the Sustainability Fund as major milestones are accomplished.

Staff recommends that the Public Works Department report back semi-annually to the Sustainability Committee on the Sustainability Fund and to provide status updates on project implementation.

^{**} shares parking lot with 595 Center

^{***}Battery doubled in duration w/CEC Equity SGIP grant and includes resiliency componer ****CEC Equity SGIP grant award, County/SP evaluating economic feasibility

In addition to the recommendations above, the interdepartmental Climate Action Task Force is required to report twice annually to the Board of Supervisors on implementation of the CAP. Public Works is a participant in the Task Force and will work with Task Force members and the Sustainability Coordinator to include an update on the Sustainability Fund and project implementation within the Task Force's report to the Board of Supervisors.

Metrics

Metrics are an excellent way to evaluate success of the CAP and for decision making on implementation measures. Although Public Works currently has systems in place for our County buildings and fleet to measure energy cost, water cost, and fuel usage, there is room for improvement to inform decision makers on the success of our sustainability efforts. Public Works will work with the County Administrator's Office to approve using funds from the Sustainability Fund to improve tracking of usage of electricity, natural gas, vehicle fuels, and water. The goal is to provide reliable data to the Board of Supervisors and the public on our sustainability efforts.

Although ideally we would develop metrics to determine actual cost savings from reduction in energy and water use, the cost benefit ratio does not justify the effort. There are a number of variables that can impact measuring actual savings or usage of energy or water. For example, pre- and post-project energy reduction may also be impacted by the time of year the measurements are taken or the weather. Instead, if actual cost savings data is not available, staff recommends that we use theoretical measurements to determine the benefit and for reporting to the Sustainability Commission, Sustainability Committee, and the Board of Supervisors on the success of our sustainability efforts. Whenever possible, the cost/benefit/savings calculation based upon actual will be used. In addition, Public Works will continue to work on improving data collection systems to provide accurate information on actual cost savings or benefits from sustainability improvements.

Sustainability Fund Structure

Staff from the Department of Conservation and Development consulted with several cities and counties, both within California and nationally, to identify best practices and lessons learned. ¹ The findings from the research were summarized in the "Sustainability Fund Research Findings and Recommendation" report. The report presents best practices, implementation challenges, and recommends how Contra Costa County could structure a Sustainability Fund. The full report was presented to the Sustainability Committee in August 2021 and is attached as *Appendix A*. At the meeting, the members of the Sustainability Committee directed staff to add additional context beyond just the structure and mechanism of a Sustainability Fund to justify the establishment of a Sustainability Fund. The following summarizes some of the best practices, implementation challenges and the recommendation of the structure/mechanism of the Sustainability Fund.

Best Practices and Implementation Challenges:

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¹ Staff interviewed the following jurisdictions to put this report together: County of San Luis Obispo (CA), County of Sonoma (CA), County of Santa Clara (CA), County of San Mateo (CA), County of Alameda (CA), City of Santa Barbara (CA), and City of Boston (MA). Additionally, staff consulted in writing with members of the Urban Sustainability Directors Network.

In structuring a Sustainability Fund, it is important to be clear about:

- Measuring savings. There is a tradeoff between level of accuracy and resources required. The County should be clear about how it will measure energy and budget savings.
- <u>Performance metrics</u>. It is important to consider both financial (payback period, rate of return, net present value, return on investment) and environmental (energy savings, greenhouse gas reductions) metrics and to be clear about which will be used for a County Sustainability Fund.
- <u>Fund oversight</u>. Most jurisdictions have an interdepartmental committee that evaluates and makes recommendations on where sustainability funds will be used.
- <u>Fund growth</u>. It is important to think about how the fund will grow, whether through annual allocations, whether savings will be reinvested in the fund wholly or in part, and whether departments will share in any savings.
- Accounting system. It's important to know how funds will be tracked.

In considering these best practices and implementation challenges, staff recommends that we do not establish a revolving fund because of the high cost of measuring "actual" energy savings or GHG reductions from projects, the cost associated with the accounting necessary to track savings, and the cost associated with accounting to reimburse the Sustainability Fund from cost savings.

Instead, staff recommends an annual allocation of general use funds to feed the Sustainability Fund that would be managed by the Public Works Department in close coordination with the County's Administrator's Office. Public Works would identify projects that meet the intent of the Sustainability Fund and work with the County Administrator's Office to approve the projects and authorize the use of the funds.

To address accountability of the Sustainability Fund, Public Works will report the status of the fund and project implementation four times a year. Staff will present semi-annual reports to the Sustainability Committee summarizing the status of the Sustainability Fund and project implementation. Staff will present two reports to the Board of Supervisors as part of a semi-annual report prepared by the interdepartmental Climate Action Task Force on their efforts on sustainability.

Budget Information

At the August 2021 Sustainability Committee meeting, staff recommended the Committee consider an annual Sustainability Fund allocation of \$1 million to \$5 million. The Committee recommended an initial Sustainability Fund allocation of a minimum of \$2.5 million to move forward with the first project priority to install the necessary infrastructure for electric vehicle charging at County facilities.

Based on the various discussions, staff is recommending that the Board of Supervisors allocate **\$3 million** to the Sustainability Fund for Fiscal Year 2021/2022. In subsequent fiscal years, Public Works, working with the County Administrator's Office, will propose sustainability projects with cost estimates to consider allocating future funding to the Sustainability Fund during the annual County budget process. The Public Works Department will work with the County Administrator's Office to develop, prioritize, and implement Sustainability Fund projects to meet the goals of the adopted CAP and other Board adopted sustainability goals and programs.

Conclusion

In conclusion, a Sustainability Fund will help staff implement the strategies identified in the County's Climate Action Plan to reduce GHG emissions and address climate change and the impact on public health. Adding a Sustainability Fund to the implementation toolbox will also help accelerate sustainability projects related to County facilities and operations.

Appendix A

Original Sustainability Fund Research Findings and Recommendations report as presented to the Sustainability Committee in July 2021

Sustainability Fund Research Findings and Recommendation

Prepared by Contra Costa County, Department of Conservation and Development & Department of Public Works

Authors: Nicole Shimizu (Climate Corps Fellow), Jody London (Sustainability Coordinator), Steve Kowalewski (Public Works)

July 2021

Sustainability Fund Research Findings

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Executive Summary

The Contra Costa County Board of Supervisors directed staff in March 2021 to develop recommendations for a Sustainability Fund that could be used to support investments in County facilities that further the County's environmental sustainability and climate change goals. Staff from the Department of Conservation and Development consulted with several cities and counties, both within California and nationally, to identify best practices and lessons learned.

This report presents those best practices, implementation challenges, and recommends how Contra Costa County could structure a Sustainability Fund.

Best Practices

In structuring a Sustainability Fund, it is important to be clear about:

- Measuring savings. There is a tradeoff between level of accuracy and resources required.
 The County should be clear about how it will measure energy and budget savings.
- <u>Performance metrics</u>. It is important to consider both financial (payback period, rate of
 return, net present value, return on investment) and environmental (energy savings,
 greenhouse gas reductions) metrics and to be clear about which will be used for a County
 Sustainability Fund.
- <u>Fund oversight</u>. Most jurisdictions have an interdepartmental committee that evaluates and makes recommendations on where sustainability funds will be used.
- <u>Fund growth</u>. It is important to think about how the fund will grow, whether savings will be reinvested in the fund wholly or in part, and whether departments will share in any savings.
- Accounting system. It's important to know how funds will be tracked.

Recommendations

Staff recommends that a Sustainability Fund be established with an annual allocation of \$1-\$5 million for the next 5 years. Public Works staff will report back to the Sustainability Committee annually on progress on project implementation and progress towards improving the data quality and performance metrics through improved tracking systems. At the end of 5 years, the Public Works Department will report back to the Sustainability Committee with a recommendation to evolve the Sustainability Fund to a revolving fund based on whether Public Works was able to develop the data and metrics needed to track actual cost savings for sustainability projects.

Staff recommends the Department of Public Works have primary responsibility for the Sustainability Fund, working in consultation with an interdepartmental advisory committee and the County Administrator's Office. Public Works would identify projects, oversee projects to

¹ Staff interviewed the following jurisdictions to put this report together: County of San Luis Obispo (CA), County of Sonoma (CA), County of Santa Clara (CA), County of San Mateo (CA), County of Alameda (CA), City of Santa Barbara (CA), and City of Boston (MA). Additionally, staff consulted in writing with members of the Urban Sustainability Directors Network.

completion, track savings (estimated or actual), and report annually on the fund's impact. This conforms to best practices learned from other jurisdictions.

In our research, an interdepartmental committee was identified as a key element for a Sustainability Fund. The recently created Interdepartmental Climate Action Task Force could play this role. The Task Force consists of department heads or designated representatives of each County department. It would convene throughout the year to make ongoing recommendations about the Sustainability Fund's management including the process of identification and selection of the projects the County should implement.

Introduction

In September 2020, the Contra Costa County Board of Supervisors created an Interdepartmental Climate Action Task Force ("Task Force") to focus on "urgently implementing the County's Climate Action Plan." The Task Force's first two meetings included discussion around sustainability opportunities within County operations. Several Task Force members suggested establishing a Sustainability Fund to support these opportunities. This suggestion was included in the Task Force's first report to the Board of Supervisors on March 30, 2021 to "Establish a Sustainability Fund that is supported by an annual investment and/or is structured as a revolving fund." At the March 30th meeting, the Board directed staff to provide more information about Sustainability Fund mechanisms other jurisdictions have implemented.

Sustainability Funds are highly customizable. In conducting this research, it became apparent that existing fund structures have been built upon elements that best support the needs of particular jurisdictions. As Contra Costa County considers establishing a Sustainability Fund, decisions and trade-offs will have to be made regarding metrics, administrative processes, and fund mechanics. This report distills a series of best practices based on multiple jurisdictions' lessons learned to inform the County's Sustainability Fund process. ³

Sustainability Fund Research Background

To prepare this report, County Department of Conservation and Development staff interviewed multiple jurisdictions about their Sustainability Funds and conducted additional online research on several additional jurisdictions' Sustainability Funds. A database of findings

² Contra Costa County Board of Supervisors, Resolution No. 2020/256, Endorsing the Declaration of a Climate Emergency in Contra Costa County That Demands Accelerated Actions on the Climate Crisis and Calls on Local and Regional Partners to Join Together to Address Climate Change.

³ Staff interviewed the following jurisdictions to put this report together: County of San Luis Obispo (CA), County of Sonoma (CA), County of Santa Clara (CA), County of San Mateo (CA), County of Alameda (CA), City of Santa Barbara (CA), and City of Boston (MA). Additionally, staff consulted in writing with members of the Urban Sustainability Directors Network.

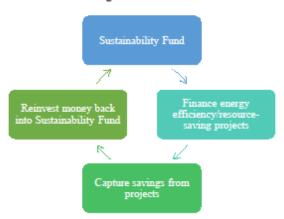
can be found in the attached document⁴. Below is a summary of common themes and best practices for the County to consider when developing, implementing, and operating its own Sustainability Fund.

Sustainability Fund Timeline

Based on interviews with jurisdictions and review of guides outlining the process of launching a Sustainability Fund, this is the general process other local governments have taken to start their Sustainability Funds:

- Conduct research on similar funds run by similar organizations.
- Determine structure of fund and gather feedback from relevant stakeholders.
- Create an interdepartmental decision-making committee and set up internal accounting and administrative processes to support the fund.
- Conduct energy audits of all jurisdiction-owned properties to develop a pipeline of projects and establish baseline energy use data.
- Prioritize certain buildings/projects starting with low-hanging fruit (projects with short payback periods, low cost of implementation, and high potential for savings).
- Execute projects, measure utility use reductions, and put the realized savings back into the Sustainability Fund for the next cycle of projects.

Revolving Loan Basic Structure



⁴ Much of the information provided in the attached document comes from the County of San Luis Obispo's Energy and Water Coordinator research to inform their own sustainability revolving fund known as the Revolving Energy and Innovation Fund (REIF).

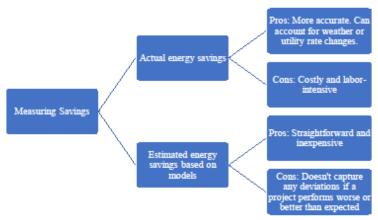
Best Practices

Based on our research, a number of best practices contradict one another because each methodology was customized to best suit a specific jurisdiction's goals. These best practices are captured below, categorized by element to illustrate the trade-offs that are associated with each option.

A. Measuring Savings

There is a spectrum of options regarding measuring savings that jurisdictions use. On one side of the spectrum, jurisdictions track actual energy savings which requires a significant amount of staff time. This method has been prohibitive for many jurisdictions that have implemented a Sustainability Fund specifically because of the staffing requirements. The other side of the spectrum uses energy savings models to estimate impacts which requires less staff time.

Several options fall in the middle of the spectrum as a hybrid of actual and estimated energy savings. One option assesses whether utility costs are decreasing over time. This option wouldn't affect project repayments, but could help verify that projects are generally decreasing costs. Another option bases the loan approval and repayment schedule on estimated savings and then tracks actual energy savings to verify that the project is functioning as predicted. Yet another option performs upfront and retroactive measurement and verification on larger projects and uses project specifications and engineering estimates on smaller projects.



B. Performance Metrics

There are several common performance metrics that jurisdictions use to determine which projects to pursue: payback periods, return on investment (ROI), net present value (NPV), internal rate of return (IRR), resource savings, and/or greenhouse gas (GHG) reductions. Some

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jurisdictions choose to focus on a combination of payback period, ROI, and IRR. However, depending on the goals of the specific jurisdiction's Sustainability Fund, the relative emphasis on each of these metrics shifts.

These performance metrics are all useful to contextualize the lifecycle costs of the projects County departments could undertake. Since the payback period of most projects would span several years, this multi-year time frame should be accounted for when selecting projects to prioritize and execute rather than choosing projects solely based on initial costs.

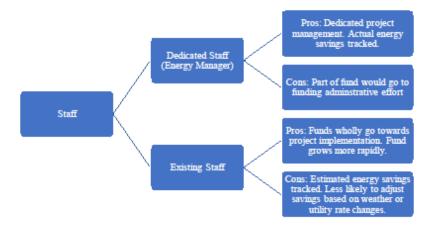
Metric Type	Definition	Pros	Cons		
	Financial Performance Metrics				
Payback Period	The amount of time required for a project to recoup its original capital and installation cost with the savings it generates.	Simple and common metric to easily compare the financial viability of different projects.	Does not account for the cost of capital and cannot be directly compared to metrics that track investment performance on an annual or monthly basis. Does not capture the total volume of savings achieved.		
Return on Investment	Savings a project generates as a percentage of its upfront cost. Can be calculated for the entire lifetime of the project or on an annual basis.	Assesses the savings from a project relative to its cost.	Does not capture the total volume of savings.		
Internal Rate of Return	Represents the profitability of a project in the presence of discounting. Often used to compare prospective investments.	Incorporates information missed by other metrics including the time- value of money and information about when costs and savings actually	Does not capture total volume of savings achieved. Unintuitive for non- technical audiences.		

Metric Type	Definition	Pros	Cons
		occur in the project's lifetime.	
Net Present Value	Total net savings of a project and accounts for the time-value of money. Discounts costs and savings depending on how far into the future they occur.	Considers the total number of years the project will be active. Captures relevant factors such as project lifetime, the time-value of money, and total volume of net savings that are omitted by other metrics.	Unintuitive for non- technical audiences and relies on often arbitrary discount rates.
	Environmental Perfo	rmance Metrics	
Resource Savings	Total amount of electricity, fuel, water, waste, or other materials that are conserved or produced by the project.	Straightforward metric	Difficult to compare different project types.
Greenhouse gas (GHG) Reductions	Project's reduction of greenhouse gas emissions.	Accounts for the amount of resources saved, the GHG emissions intensity of those resources, and the global warming potential of GHGs.	Can be difficult for groups to conceptualize the scale of reductions.

C. Fund Oversight

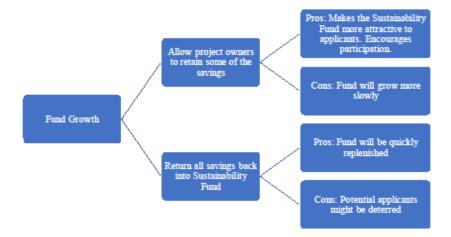
The majority of jurisdictions surveyed have an interdepartmental committee that provides oversight and guidance to the fund ranging from defining project criteria to verifying annual project energy savings. Common committee membership includes facility operation managers and managers from finance and sustainability departments. This provides jurisdictions cross-departmental buy-in and ensures that all relevant stakeholders are involved in the Sustainability Fund's operation.

Fund management varies across jurisdiction depending on staffing capacity and funding. Some jurisdictions have a dedicated energy manager tasked with day-to-day fund operation, dedicated project management, and tracking actual energy savings. The position could be paid for by tacking on an administrative fee of around 2% as part of the loan terms. A 2% fee was identified as the ideal surcharge as it ensures there is enough funding for administrative personnel without deterring project applications. However, several resource-constrained jurisdictions noted that having existing staff administer the fund is also a viable option as long as savings are based on modeled estimates rather than actual savings.



D. Fund Growth

There is a tradeoff between making the Sustainability Fund financially attractive to applicants and growing the fund over time. If the jurisdiction's goal was to grow its fund as fast as possible, it would create 0% interest loans and target all of the low-hanging fruit projects in their jurisdiction. If it needed to incentivize departments to take advantage of the loans, the jurisdiction would allow project owners to collect project savings for three years and afterwards redirect the savings back to the Sustainability Fund.



E. Accounting System

There are two main accounting systems that Sustainability Funds use depending primarily on whether or not the County department has control over its budget.

	Loan Model	Accounting Model
Overview	County department borrows money from the fund via a budget transfer. The department is responsible for repaying the loan using project savings.	Funds are transferred to County department or facilities department. Repayment is made via a transfer of funds back into the Sustainability Fund from a centrally managed operating budget.
Best Fit	County departments have control over distinct operating budgets, discrete ownership of projects, and facilities staff or building technicians to assess potential improvements.	County department does not have discrete ownership of project and/or draws from the same pool of money for building-related expenses as the Sustainability Fund (ex: A General Fund).

Some best practices that have worked for jurisdictions across the board include:

 Making the Sustainability Fund its own budget item to create a dedicated sustainabilityoriented pool rather than risk losing dedicated funding if the Fund was part of the General Fund,

- Creating buy-in and ensuring the longevity of the program within the organization using the business case for the fund,
- Selecting projects based on two main factors: alignment with the fund's mission and compatibility with the actual portfolio of projects that are available for investment, and
- Prioritizing projects in a way that best allocates limited resources while accounting for the feasibility and timing of projects given other constraints.

Common Obstacles and Recommended Solutions

Obstacle	Solution
Staff not encouraged to improve building efficiency because, if they cut costs, their operating budget will be reduced accordingly the next fiscal year.	 Freeze utilities or operating budgets during the repayment period of the project to ensure facility managers see the benefit of achieving savings through efficiency projects. Facilitate the careful tracking and management of savings resulting from projects, so stakeholders can negotiate when and by how much operating budgets will be cut in response to those savings. Require only a certain portion of savings to be repaid into the fund, allowing the project funder to immediately receive some of the financial benefit even while the full project cost is more slowly being repaid. A revolving fund helps to restore the incentive to conserve by formalizing project savings and revolving them back into the fund, which can then be tapped by the same stakeholders for future projects.
Paying for staff time and management	Ensure loan repayment terms capture enough revenue each year to sustainably administer the fund. For example, a 2% interest for administrative costs ensures there is enough funding for administrative personnel without deterring project applications Include a fee that would be bundled into the repayment terms (i.e., asking loan recipients to pay back more than 100 percent of the loan value from generated savings, such as through an additional payment at the end of the repayment term).
Concerns about accurately measuring savings	 Conduct an upfront audit or engineering assessment to forecast savings potential over the project's lifetime,

Obstacle	Solution	
	demonstrating the short- and long-term value of the loan to the recipient.	
	 Conduct the measurement and verification of project savings using an agreed upon process, providing data which verifies that the level of achieved savings is consistent with repayment terms. Then, create a repayment structure that adjusts to changes in savings beyond the original estimates. 	
	 Consult resources to confirm the typical savings generated by similar projects at other institutions, increasing buy-in by demonstrating past success. 	
Concern about exhausting high- payback low-hanging fruit projects	Learn from the experiences of jurisdictions' already established fund structures. Bundle projects of various payback lengths. Examine the value of higher-hanging fruit such as deep retrofits and renewable energy installations.	

Sustainability Fund Operation in Contra Costa County

Why a Sustainability Fund? As mentioned at the beginning of this report, the Interdepartmental Climate Action Task Force discussed implementation challenges and recommended a Sustainability Fund be set up to help implement sustainability projects and programs. The Task Force identified project implementation funding as the top implementation challenge.

Why do we need a Sustainability Fund if we are currently implementing sustainability projects such as solar, Electric Vehicles (EV), Electric Vehicle chargers, and Light Emitting Diodes (LED) retrofits? It is true that the County has implemented many sustainability projects without the use of a Sustainability Fund. However, the County financed the projects through a variety of methods that did not require a local match investment. For example, PG&E's on-bill financing was a tool used to fund the capital improvements without having to front the funding. Unfortunately, some of these tools, such as the on-bill financing, are no longer allowed to be used. We have also used Power Purchase Agreements and third-party energy reduction firms that evaluated, designed, and constructed energy reduction projects in exchange for a portion of the cost saving due to the project. These delivery tools also come with issues and constraints.

In order to move the County forward towards implementing sustainability projects and avoid some of the challenges and constraints with using various tools to finance the projects, the Board of Supervisors requested that staff investigate the use of a Sustainability Fund or Revolving Fund as recommended by the Inter-departmental Climate Action Task Force Committee. The research conducted by Conservation and Development identifies pros and cons to various Sustainability Funds used by other agencies. The information is useful to identify lessons learned and best practices in trying to develop a Sustainability Fund structure that meets Contra Costa's complex infrastructure financing system.

In developing a recommendation on a Sustainability Fund for Contra Costa, staff first identified an "ideal" structure for funding sustainability improvements. Based on the ideal situation, staff evaluated the challenges associated with creating this structure, and has developed the recommendation below for a structure that addresses the implementation challenges.

The following table describes an ideal Sustainability Fund/Revolving Fund structure and challenges related to implementation to fit the County financing and project delivery structure.

Ideal Sustainability Fund Structure (Revolving Fund)	County Implementation Challenges
One-time investment of unconstrained funding (ok to use on General Fund and non-General Fund funded County buildings)	A defined source of funding has not been identified. The funding should be unconstrained to be able to improve the highest impact projects and not just focused on General Fund funded building, such as is done with Facilities Lifecycle Improvement Program (FLIP) projects.
Sustainability Fund managed by Public Works with direction from CAO and Board of Supervisors	Fund does not currently exist. Fund oversight expectations and project approval process need to be developed.
Project identification and prioritization based on various Board adopted documents (Distributed Energy Resources (DER), Climate Action Plan (CAP), Energy Reduction Plan (ERP), Building Codes, Administrative Bulletins)	Although Public Works has used industry accepted selection criteria, such as energy use, occupancy frequency, etc. to identify a preliminary list of projects, these have not been reviewed and approved by the CAO.
Agreed-upon project selection criteria used to prioritize improvements	Project selection criteria and prioritization needs to be finalized. Ideal selection and prioritization criteria may be difficult to apply due to limitations in our existing tracking systems. Ideal metrics are not easily available to base selection decisions.

Ideal Sustainability Fund Structure (Revolving Fund)	County Implementation Challenges
Project approval by a Project Review Committee (CAO, Public Works, Task Force, etc.)	The Board directed that the Inter- departmental Climate Action Task Force be formed to address sustainability issues. Need to determine if this Committee is the appropriate make-up to evaluate projects. The Committee may be more suitable to review overall process challenges rather than review the merits of individual sustainability projects.
Commit funding towards approved projects	Need to agree how funding is committed to a prioritized project. Will the CAO approve or will Board action be necessary? Will the Sustainability Fund be a separate line item of the General Fund and subject to annual allocation decisions? This could make it difficult to plan larger multi-year projects.
7. Pre-project evaluation (data/metrics)	Public Works currently does not have the resources to conduct a pre-project evaluation of many sustainability projects, such as energy reduction or solar installations. This effort would need better utility tracking software and possibly the installation of submeters to collect the appropriate data/metrics to evaluate project impact. This effort would also require additional staff time to conduct the evaluations and analyze the data/metrics.
Design and Construct Sustainability Project	Public Works is able to successfully deliver sustainability projects. The Department has partnered with the CAO's Office and County Departments to deliver many solar installations, energy reduction projects, water reduction projects, and new LEED certified buildings. The challenge of implementing sustainability projects is not with staff's ability to deliver projects, but rather with the lack of dedicated funding and clear authority on project authorization.
Post-project evaluation (data/metrics)	Same issues as described above under pre- project evaluation.

Ideal Sustainability Fund Structure	County Implementation Challenges
(Revolving Fund)	County implementation chantenges
Identify "Actual Cost Savings" from project implementation. Staff support and data extraction tools are funded and available. Cost savings are purely based on constructed improvements and other variables, such as weather, occupancy, etc., did not impact cost savings calculation. Improvement can be monetized.	Actual cost savings are typically dependent on a number of variables that may skew benefits realized from a sustainability project. Calculating actual cost savings requires a significant amount of staff and other resources to be useful. Some sustainability improvement benefits cannot be monetized (clean water bioswales). Without accurate cost savings information, difficult to create a revolving that is supported by data/metrics.
11. Annual cost savings are used to replenish the Sustainability Fund (making it a revolving fund). To add incentive to Departments, cost savings can be shared with the Department so they receive an immediate benefit from implementing project. Cost savings are deposited into the Sustainability Fund until the capital investment is repaid including an additional amount to cover administrative costs for the program (finance staff, software tools, reporting requirements, etc.). There are no constraints from Department specific funding that would prohibit the replenishment of cost savings into the Sustainability Fund to be used by all departments.	Some County Departments are funded with State and/or Federal funding that gets audited routinely. There may be an issue if the Department's utility costs go down, yet they are paying a higher amount to fund the Sustainability Fund until the revolving fund is repaid. Departments funded with restricted funds may have an issue of paying for proactive sustainability improvements that are not "required" with any building upgrades or improvements. A revolving fund is a type of "loan" or debt financing. Some fund sources may require a voter approval for debt financing. Would this debt financing count against the County's cap, or since it is internal, would it not count against the cap? As mentioned above, if we are unable to monetize project impacts, then the desire for the Sustainability Fund to be a revolving fund will be challenging to maintain.
Implement next project or bundle of projects using replenished Sustainability Fund.	No issue

As shown in the table above, staff identified many "challenges" that need to be further developed to reach an "ideal" Sustainability Fund structure. However, with the Board of Supervisors declaring a Climate Emergency, staff is recommending a modified structure to begin implementing sustainability projects immediately.

Staff recommends the following modified financing and process structure to begin implementing sustainability projects for County Departments.

- Staff recommends the Board of Supervisors establish a Sustainability Fund with the mission
 to fund sustainability projects that benefit the environment and fulfills the mission of the
 Climate Action Plan for all County building infrastructure. The use of the funding would not
 be restricted to General Fund funded infrastructure, but could also be used by Departments
 that are funded with restricted funding. This condition allows staff to focus on the highest
 impact projects without being constrained to General Fund funded buildings as is the case
 with Facility Lifecycle Improvement Projects (FLIP program). Having unrestricted funds
 allows staff to better bundle projects and coordinate improvements across all County
 infrastructure.
- Staff recommends the Board of Supervisors allocate \$1-\$5 million annually to the Sustainability Fund for the next 5 years. A portion of the allocation each year would be used to improve the Public Works Department's ability to track utility costs, energy usage, and greenhouse gas reduction with the majority of the annual allocation going to project implementation. At the end of 5 years, the Public Works Department will report back to the Sustainability Committee on the progress made on tracking utility costs, energy usage, and greenhouse gas reduction. Based on the results and the ability to track "actual" cost savings, Public Works will make a recommendation to convert the Sustainability Fund to a Revolving Fund that will be funded with actual cost savings by the various Departments or to continue with the original Sustainability Fund structure where annual allocations are made to the fund from the General Fund or other appropriate fund source. If the County prefers to pursue a revolving fund, another option is to fund the Sustainability Fund with "estimated" cost savings rather than "actual" cost savings that would require far less financial and staff resources to implement. Estimated savings would be used for Departments to deposit back into the revolving fund.
- Because the Public Works Department is primarily responsible for facilities management, it
 would be most effective for the Sustainability Fund to be managed by the Public Works
 Department. Public Works would identify projects, oversee projects to completion, track
 savings (actual or estimated), and report annually on the fund's impact. This is in line with
 the research for this report, in which seven out of the thirty jurisdictions researched had their
 Public Works department or equivalent alone in charge of the fund's management.
- Across the board, the most common element between jurisdictions' Sustainability Funds was
 an interdepartmental committee. Twenty-one out of the thirty jurisdictions identified an
 interdepartmental committee as a key element in their Sustainability Fund office. Because the
 Interdepartmental Climate Action Task Force was created to implement actions identified in
 the Climate Action Plan, the group is well positioned to act as the interdepartmental advisory
 committee to the Sustainability Fund. This committee, consisting of department heads or
 designated representatives of each County department, would convene to make ongoing

recommendations about the Sustainability Fund's management, including the procedure of identifying and selecting projects the County would implement.

- The County's Energy Manager (Public Works staff) would work with the Facilities, Capital Project Management, and Fleet Divisions within Public Works to identify sustainability projects using technical and practical knowledge of the County's building infrastructure and fleet operations. Project selection would be based on County adopted documents and bulletins, such as the Distributed Energy Plan, Climate Action Plan, Energy Reduction Plan, Administrative Bulletins, and building codes. The projects would be prioritized and submitted to the County Administrator's Office for approval of the projects and authorizing the use of funding from the Sustainability Fund prior beginning work on any project.
- The Energy Manager and staff from Facilities Services, Capital Projects, and Fleet Services
 have identified several projects that could be implemented immediately if the Board of
 Supervisors approves the Sustainability Fund concept and allocates funding. Depending on
 the amount of funding allocated, Public Works would submit the initial list of projects to the
 CAO for approval to implement. The initial focus of the Sustainability Fund would be on
 energy reduction projects, installation of electric vehicle charging stations, and electrification
 of the County's fleet vehicles.
- Public Works will provide annual reports to the Sustainability Committee on progress toward project implementation funded by the Sustainability Fund.

Additional Resources

- Local Government Energy Financing Primer | Better Building Solutions Center
- Climate Financing Decision Making Tree | ICLEI
 - Breakdown of advantages, disadvantages, and case studies
 - o T8: Energy Performance Contract
 - T11: Revolving Fund
- City of El Cerrito Revolving Fund Administrative Manual (2009)
 - Step-by-step guidance about establishing/implementing revolving fund, eligible projects, goals of revolving fund, allocation of funds and management, accounting, project guidelines, payback period etc.
- Green Revolving Fund: A Guide to Implementation and Management | Sustainable Endowments Institute and the Association for the Advancement of Sustainability in Higher Education
- Revolving Loan Fund (Internal vs External) | DOE
- State Revolving Fund Recommendations for Clean Water Infrastructure Investments |
 NRDC Water and Climate Team

Jurisdiction	Name of Effort	Contact		Initial Funding Amount	Source of Seed Funding	Types of Projects	Size of Projects
Alameda County (CA)	Revolving Energy Fund (aka Designated Energy Fund) & Municipal Utility Surcharge	Emily Sadigh	1995		Energy savings from PG&E retrofit project (PG&E's 1st demand side bidding program called Power Saving Partners)	Lighting, solar, fuel cells Augment mainterance/replacement projects for which maintenance budget only pays for standard energy efficiency upgrade. Fund pays to increase energy efficiency to a higher level	\$1k-1 million
City of Ann Arbor (MI)	Municipal Energy Fund			\$500,000 (\$100,000 annual contributions for 5 years)		Municipal programs aimed at improving energy efficiency in municipal facilities	
Arizona State University (AZ)	Sustainability Initiatives Revolving Fund (SIRF)		2010				3 tiers of project sizes from small (<\$5,000) to large (10 year payback or less)

Jurisdiction	Name of Effort		Start Date	Initial Funding Amount	Source of Seed Funding	Types of Projects	Size of Projects
City of Boston (MA)	Renew Boston Trust	Swing	performan ce	\$20 million from government operations green bond	staff), Energy Block Grant	Efficient lighting and water futures, HVAC equipment replacements, building management systems, solar panels	
Oity of Cupertino (CA)	Sustainability Committed Reserves Fund	Andre Duurvoort					
Douglas County (KS)	Sustainability & Energy Savings Reinvestment Fund		2011	\$300,000	Douglas County Commission	Projects that save energy and reduce maintenance costs or promote the implementation of innovative sustainability solutions	

Jurisdiction	Name of Effort	Contact	Start Date	Initial Funding Amount	Source of Seed Funding	Types of Projects	Size of Projects
City of El Cerrito (CA)	Environmental Improvement Revolving Fund Energy and Water Efficiency Program (EWEP) El Cerrito Revolving Fund (ECRF)		2008	\$25,000	From PY08/09 Capital Improvement Project overage and General Fund allocation based on estimated savings from Energy Watch Lighting retrofit projects	Range of projects that deliver environmental benefits to city operations. Environmental Services will have wide discretion to pursue individual projects with varied environmental benefits as long as sum of project activities in a given year meet "portfolio" criteria	
Kane County (IL)	Energy Efficiency Revolving Loan fund		2009	\$2,469,100	Energy Efficiency and Conservation Block Grant (EECBG) as part of American Recovery and Reinvestment Act (ARRA)	Projects resulting in reduced fossil fuel emissions, reduced total energy use, or improved energy efficiency. Project must also generate energy savings to be used to mean the loss.	
Inyo County (CA)	Southern California Edison (SCE) Energy Efficiency Revolving Loan Fund (EERLF)					Energy efficiency projects (modify existing facilities and fund improved infrastructure in new construction projects)	

Jurisdiction	Name of Effort	Contact	Start Date	Initial Funding Amount	Source of Seed Funding	Types of Projects	Size of Projects
City of Long Beach (CA)	Innovation and Efficiency Initiatives Revolving Fund			\$2 million	PY14 year-end General Fund department surplus	Energy efficiency systems, solar panels, street lighting improvements, HVAC systems, machinery/equipment that reduce staffing or other operational costs, energy efficient vehicles, innovative solutions that improve service delivery and grow the City's tax bas through improved economic opportunity for residents and businesses	
City of Montpeller (VT)	Net Zero Revolving Loan Fund		2016	\$30,000	\$20,000 from Council approval from city's Reserve Fund \$10,000 from Efficiency Vermont	 Municipal energy efficiency and renewable energy investments in the City Projects that directly address one or more of the City's Net. Zero goals through energy efficiency, renewable energy production, or reduction of energy-related costs Feasibility studies that support energy projects can be funded if either paid back within 2 years or rolled into the repayment schedule of a funded project that results from the feasibility assessment 	

Jurisdiction	Name of Effort	Contact	Start	Initial Funding	Source of Seed Funding	Types of Projects	Size of Projects
			Date	Amount		,,,	
City of Moreno Valley (CA)	Energy Efficiency Fund (EEF)			\$60k from EECBG projects and \$32k from Moreno Valley Utility rebates	EECBG grant through ARRA (scope: energy efficiency assessment, HVAC retrofits) SCE Grant (scope: develop energy efficiency codes, staff training and development, GHG inventory, climate action plan strategy development, develop municipal energy plan and municipal revolving fund for EE projects)	Energy efficiency (include any construction or netrofit project that involves energy efficiency)	
City of Nashville (TN)	Energy Savings Revolving Fund	Laurel Creech		\$2 million		Energy savings projects (energy conservation measures, energy audits, energy infrastructure retrofits, building automation systems, utility expense management, building retro-commissioning)	
Portland State University (OR)	Green Revolving Fund		2013	\$500,000	State of Oregon funding for capital improvements	Energy and water efficiency projects	

Jurisdiction	Name of Effort	Contact	Start Date	Initial Funding Amount	Source of Seed Funding	Types of Projects	Size of Projects
Riverside County (CA)	Energy Conservation Fund		2010	\$168,190	New construction design incentives Solar rebates Solar rebates Strategic Plan element incentives from SCE and the Gas Company	Energy and water efficiency projects EV charging stations Heat exchanger upgrades Persistence-based retrocommissioning Insulation HVAC retrofits	
City of Sacramento (CA)	Green Facilities Program (GFP), now Energy Reinvestment Program			\$1.9 million for revolving loan fund	Portion of the \$2.6 million DOE Energy Efficiency and Conservation Block Grant (EECBG)	Energy efficiency projects (ex: water boiler replacement, hot water pump motor replacement, HVAC repairs, lighting retrofit)	
City of San Antonio (TX)	Energy Efficiency Fund		2011	\$4.6 million	American Recovery and Reinvestment Act (ARRA)	Energy efficiency retrofits (interior/exterior lighting retrofit, HVAC equipment and controls replacement/upgrade, solar window film, retro-commissioning/HVAC tune-up, pool pump upgrade)	\$1,000-250,000; average of \$20,000
Otty of San Jose (CA)	City Buildings Energy Projects Program (C- BEPP) Energy Fund program		2005	\$200,000	PG&E rebate from street light upgrade	Ughting, smart street lights, HVAC, control systems	\$5i-20k

Jurisdiction	Name of Effort	Contact	Start Date	Initial Funding Amount	Source of Seed Funding	Types of Projects	Size of Projects
San Luis Obispo County (CA)	Revolving Energy and Innovation Fund (REIF)	Annie Secrest			Portion of realized funds from Installing solar	Energy-saving projects and programs	
San Mateo County (CA)	GOCAP (Government Operations CAP)	Susan Wright	Start early 2021				
City of Santa Barbara (CA)	Energy Efficiency Fund	Aleila Parenteau	2017		General Fund budget allocation	Mechanical/plumbing/electrical systems and controls; building envice op-systems; energy management and control systems; renewable energy systems; design and planning of the EE project; labor necessary for construction/installation of EE project; energy audits; submeters and installation costs; training of operations and maintenance staff; commissioning, inspections, or certifications; construction/renovation costs directly related to or required by EE or renewable energy improvement; water conservation and wastewater reduction improvements; or other improvements resulting in proven and predictable energy savings	No minimum or maximum limit If their funding is available, City prefers to reserve EE Fund for energy cost-saving projects that otherwise wouldn't move forward. Large projects in particular may be funded best through other financing as it would take time for EE Fund to grow sufficiently large to pay for a big project.

Jurisdiction	Name of Effort	Contact	Start Date	Initial Funding Amount	Source of Seed Funding	Types of Projects	Size of Projects
Santa Clara County (CA)		Susana Mercado		\$5 million per year allocated, but not appropriated	General Fund; part of 10 year Capital Improvement Plan; funds directly tied to Board policies		
Otty of Santa Cruz (CA)	Carbon Reduction Fund		2017	No seed money	All fund money came from energy efficiency and solar rebates from eligible projects that various city departments undertook. Performance-based rebate checks that used to go to the General Fund were instead directed to Carbon Fund	Purchase high efficiency equipment, construct and/or install new energy efficient infrastructure, and implement actions described in the CAP Reduce project costs to meet State or utility requirements for low-interest financing Augment maintenance or replacement costs of new technology	
Sonoma County (CA)	Climate Resiliency Fund	Jane Elias	Delayed until FY 22/23	\$10 million	PG&E settlement money Sonoma got from 2017 wildfires	Direct spending or to leverage grants, incentives, and other sources for climate work	
					General fund dollars, utility savings and rebates from Comprehensive Energy Project from 2008-2010. During this time also received CEC grants that leveraged dollars set aside.		
Union County (NC)	Revolving Energy Fund		2009		ARRA, DOE, EECBG funding	Solar thermal on jail, lighting retrofits, HVAC upgrades	

Jurisdiction	Name of Effort	Contact		Initial Funding	Source of Seed Funding	Types of Projects	Size of Projects
			Date	Amount			
	Energy Revolving Fund		2012	\$13 million	University's cash reserve fund which is normally invested for short periods in low risk financial instruments	Efficiency projects on campus	
US General Services Administration	Facility Efficiency Investments		2010				
State of Utah	State Facility Energy Efficiency Fund (SFEEF)		2008			Energy efficiency improvement projects	
City of Visalia (CA)	Revolving Conservation Fund		2009	\$200,000	EECBG Grant (Savings from ARRA-funded projects put back into fund)	Any conservation project resulting in utility cost savings (electricity, gas, water) or feasibility analysis/grant proposal	\$11r-25k
City of Watsonville (CA)	Carbon Fund Program		2015		Carbon Impact Fee to all new development as a percentage of the building permit fee.	Any greenhouse gas reducing projects in the City	

Jurisdiction	Project Requirements (Financial/Environme ntal)	Loan Terms	Source of Repayment	How Savings Calculated (Actual meter vs estimation)		Estimated # FTE Required
Alameda County (CA)	10% IRR	Ad hoc, some had no repayment, some had modest interest	Incentives from projects with short lifecycles and less than 5 year paybacks without incentives and from incentive refunds from local utility companies and 100% of savings from energy projects	Estimated		0.25 FTE - tacking funding out and in
Otty of Ann Arbor (MI)	Prioritization based on energy saving potential, improvement of the facility environment, and educational/demonstrati onal value of project		• Annual payments are made from 80% of the resultant energy swings, allowing facility budgets to be reduced or to apply the remaining 20% of savings to further improve the facility or services. Repayment starts the 1st year after the energy swing measures are installed. • Money is transferred from the budgets of the facilities that receive the energy improvements to the Energy Fund at the end of the fiscal year and be available to finance further energy improvements in future fiscal years.	savings	• 3-5 year payback • Used to do a payback of 80% of savings for 5 years, even if project has 3 year payback; this is proving to be too expensive for projects with long payback periods. Now considering extending repayment period to 10 years with little to no interest.	1 FTE paid 1/3 out of street lights, 1/3 water, 1/3 maintenance Internal office Internal offi
Artrona State University (AZ)	specific financial criteria; has to be consistent with fund goals • Tier 2 and 3: 6% IRR with a preference for projects 8% IRR or higher	Tier 1: No payback required. \$5,000 maximum grant. Tier 2: Loans match funding from the department receiving the loan. Maximum of \$500,000 per year. Savings are split 50/50 between SIRF and loan recipient. Tier 3: All savings directed to the fund as repayment for the loan.	Savings		Tier 1: No repayment required Tier 2: 6 years or less Tier 3: 10 years or less Tier 3: 10 years or less	

Jurisdiction	Project Requirements (Financial/Environme ntal)	Loan Terms	Source of Repayment	How Savings Calculated (Actual meter vs estimation)	Repayment Period	Estimated # FTE Required
City of Boston (MA)	Guaranteed energy and cost savings City-owned buildings Statute requires investment grade audit, contractually promised savings, MBV, requirement for Honeywell to cut the City a check if savings don't appear		Self-funded financing model guaranteed by Hongwell contractor Savings within City's operating budget from more energy efficient buildings pay for the financing of the work		16 years Can cross-subsidize longer psyback projects with shorter ones and blend them for a full-blown performance contract	1 FIE to oversee the work, energy manager, program manager, technical director to run the program 1 project manager in Public Facilities is full-time overseeing the ESCOs
Oity of Cupertino (CA)				Calculation or Measured savings		
Douglas County (KS)			Cost savings that result from these projects are re-invested into the Fund which provides a predictable and ongoing reserve of money for sustainability and energy improvement projects, eliminating the up-front budget impact to departments			

Jurisdiction	Project Requirements (Financial/Environme ntal)	Loan Terms	Source of Repayment	How Savings Calculated (Actual meter vs estimation)	Repayment Period	Estimated # FTE Required
City of El Cerrito (CA)			Fund design: allocate 75% of projects savings in 1.8 facal year to EWEP, 50% in 2nd fiscal year, 25% in 3rd fiscal year, 25% in 3rd fiscal year, with the remaining portion of the savings in the first 3 years and 100% of the savings in subsequent years accruing back to the individual source departments or General Fund after that (depending on where the energy bill is being paid from)	Estimated energy savings (based on actual hours or operation by facilities and energy saved based on new equipment or systems changes)	5 years (eligible projects for a given year will have combined weighted average simple payback of 5 years)	
Kane County (IL)	Project must generate energy savings to be used to repay the loan.	No annual interest on loan; 3% loan fee was due at closing		Projected energy savings	3-7 years	
Inyo County (CA)	Only County-owned buildings, not leased buildings			Actual energy savings (measured in kWh and thems) from the baseline year and dollars saved	10 years	Management and oversight of EERLF absorbed by existing Public Works staff

Jurisdiction	Project Requirements (Financial/Environme ntal)	Loan Terms	Source of Repayment	How Savings Calculated (Actual meter vs estimation)		Estimated # FTE Required
City of Long Beach (CA)						
City of Montpeller (VT)	Must be on Oity- owned/leased/operated property and reduce overall operating costs Funding should primarily cover equipment, materials, and other "hard" costs that have a high impact		to the Fund • After the initial "payback" has	by engineers or Efficiency Vermont	4 years	

Jurisdiction	Project Requirements (Financial/Environme ntal)	Loan Terms	Source of Repayment	How Savings Calculated (Actual meter vs estimation)		Estimated # FTE Required
Oty of Moreno Valley (CA)	Energy efficient projects only Project must qualify for rebates		energy efficiency projects for 2	Calculated Calculated (difference between baseline year kWh and the after installation year kWh) Using meter savings		No FTE dedicated to fund, but recommend minimum of 2 employees
Oty of Nashville (TN)						
Portland State University (OR)			Savings from University utility budget Energy incentive rebates from the Energy Trust of Oregon Voluntary travel offset program funds		10-15 years	

Jurisdiction	Project Requirements (Financial/Environme ntal)	Loan Terms	Source of Repayment	How Savings Calculated (Actual meter vs estimation)	Repayment Period	Estimated # FTE Required
Riverside County (CA)					2	:
City of Sacramento (CA)	City-owned facilities	3% interest rate (to cover administrative costs)	Estimated energy savings from the projects	Estimated energy savings (based on actual hours of operation by facilities and energy saved based on new equipment or systems changes)	12 years	
City of San Antonio (TX)			Rebate revenue: Revenue is projected for each fiscal year, then appropriated directly to the energy fund budget. Rebate dollars are deposited directly into the fund Find Energy Savings: Utility budgets for each department are set at the pre-energy retrofit level to capture avoided energy costs. Each month, 1/12th is transferred from the affected departments' utility funds to the Energy Efficiency Fund		Average of 4 years	
Oty of San Jose (CA)	Payback only Oty-owned facilities	19% interest and no fees Project costs only; no staff costs	100% of savings (return 1st & 2nd year energy cost savings and associated rebates/incentives from Energy projects to Energy Fund; after 2 years the savings revert to the General Fund)	Calculated		0.25 FTE maximum to administer fund Energy Officer in Environmental Services Department to facilitate implementation of Energy Projects, reduce operation and maintenance costs, and reduce environmental impacts

Jurisdiction	Project Requirements (Financial/Environme ntal)	Loan Terms	Source of Repayment	How Savings Calculated (Actual meter vs estimation)	•	Estimated # FTE Required
San Luis Obispo County (CA)			Rebates, incentives, energy savings, rate savings (modeled after City of Visalia) 2 years of 100% of savings going back to REIF	Estimated through energy audits	Maximum payback of 5 years for lighting projects and 10 years for mechanical projects (based on wanting payback period to be less than equipment's expected useful life (EUL) to generate additional cash flow opportunities into the REIF)	
San Mateo County (CA)						
Otly of Santa Barbara (CA)	Facility must be reasonably expected to remain in operation and under City ownership for full length of payback period		Rebates, incentives, energy savings, rate savings, annual departmental service charges	Actual energy savings	10 years or less	Currently administered with existing staff.

Jurisdiction	Project Requirements (Financial/Environme ntal)	Loan Terms	Source of Repayment	How Savings Calculated (Actual meter vs estimation)	Repayment Period	Estimated # FTE Required
Santa Clara County (CA)						
Oity of Santa Cruz (CA)	Project must be consistent with CAP					
Sonoma County (CA)						
Union County (NC)						

Jurisdiction	Project Requirements (Financial/Environme ntal)		Source of Repayment	How Savings Calculated (Actual meter vs estimation)	Repayment Period	Estimated # FTE Required
University of Vermont (VT)		Pay back 5% interest on outstanding loan amount each year in addition to principal repayments		Depends on project	7 years	
US General Services Administration		Budget-neutral Require no up-front expenditures where possible	Utility cost savings	Actual savings		
State of Utah			Cost savings from reduced energy use and demand Utility incentives	Actual		
City of Visalia (CA)	Only financial considered	0% interest and no fees Looking to add fee for admin time	100% of savings until payback Any rebate incentives received from utilities for energy efficiency retrofits and half of the annual utility oost savings for the first 3 years put into the Conservation Fund	Calculated savings based on SCE methodology	Cannot exceed 10 years. Payback period must be less than or equal to the lifecycle of the project efficiency measures.	Less than 0.25 FTE; takes about 8 hours to set up and 2 hours to invoice - no more than 40 hours/year
City of Watsonville (CA						

Jurisdiction	Dept in Charge of Program	Process	Further Considerations
	General Services Agency pays all utility bils - collects surcharge on all County utility bils that then fund the County's Energy Program (salaries, benefits, misc. expenses) Fund controlled by Auditor Controller office	 No formal policy or guidelines in place 	Fund started by getting buy-in from County Administrator. Fund is no longer in use. Program found that, in terms of accounting, a utility surcharge is easier than trying to track and share savings over life of a project. It's easier to get projects done when there's no cost for project management services or reliance on budgeted Capital Fund dollars. Uses CEC's low interest Energy Efficiency Finance program. Utility surcharge on the utility bills for County departments used to cover the cost of the time to the cost of the county departments used to cover the cost of the time to the cost of the cost
City of Ann Arbor (MI)	Fund administered by the City's Energy Office under supervision of a 3 person board Energy Office often serves as project manager	3 person board approves funding, implements the project, and often serves as project manager The Office provides the 3-person board with info from energy audits and applications from facility managers for projects requesting energy funds Board reviews all applications and makes final decisions on what projects to fund each year	Proceeded by \$1.4 million Energy Bond project. After bond was paid off in 1998, reduced the money to \$100,000 to establish the Municipal Energy Fund. Once low hanging fruit is picked and payback period is longer than 5 years, look to minimum IRR. The future is going to be funding projects with 20 year payback. Intail 80%/20% energy savings payment scheme is too high Minimum growth should be inflation + interest \$100,000 annual budget was discontinued PY03/04 and now the Fund melies on payments from past projects to finance new projects Fund financed solely by re-investing funds saved through energy efficiency measures into new energy savings projects. 2 critical components of establishing the fund: seed money and a manager assigned to support and coordinate the fund and its projects
Artona State University (AZ)	SIBF Committee: senior administrators from Facilities Development and Management; Financial Services; Office of Planning and Budget; University Sustainability Operations; W.P. Carmey School of Business Department, Economics Chair Chief Financial Officer	- SIRF committee meets monthly if projects are being considered. Committee comprised of 7 people from the facilities group, budget group, financial services, economics department, university business services, and the sustainability group SIRF committee uses strictly financial metrics to evaluate Tile 2 and 3 projects. Once project has met 69+ IRR, other financial performance metrics including simple payback, ROI, net-present value, and annual planned repayments are considered Before a project is discussed, a staff member vets the	Recognizing that impactful sustainability projects vary in size, type, and payback, ASU developed a 3 tiered system with different requirements for each tier Using strictly financial metrics to evaluate projects helps build the case that sustainability is a good investment Any applicable rebates aren't incorporated into these calculations to be conservative

Jurisdiction	Dept in Charge of Program	Process	Further Considerations
City of Boston (MA)	Environment Department Public Facilities Department Pudget Office 3 department heads: OFO (alternative finance), Operations (facilities dept), Outdoor.	Investment grade assessment of buildings to identify energy, water savings opportunities Evaluate which buildings to do a full assessment and audit on Potential energy conservation measures will be identified for each building City will select the next portfolio of measures to implement consistent with the available budget.	Guaranteed energy savings, not utility on-bill Private contract with ESCO Started Energy Unit once found billing errors in utility usage Set up program first before trying to pass green bond. Need internal comfort first with the mechanism. Green bond was 3 basis points different than the rest of the bonds in the portfolio. Signals interest from investors in more sustainable bonds
City of Cupertino (CA)		• Each budget cycle, city can make contributions to the Fund based on a staff proposal each budget cycle • Staff develops a calculation or a measured savings report for the amount of utility costs that were saved in a given time period and propose an equivalent amount to be booked as revenue in the Fund. • In theory, the city could contribute to the fund each year for a single project as long as staff can demonstrate the savings are recurring against some reasonable baseline. In practice, staff captures one year's worth of savings. • City Council decides during budget proposals each year if they want to make the transfer or not into the Fund. • If staff proposes a sustainability-related capital project, they can propose to utilize these funds to make it more	
Douglas County (KS)	Sustainability Office	attractive for Chu Council	Revolving loan program that investment created allows county department heads to fund energy and other sustainability projects without dipping into their own annual capital budgets. Many program projects stemmed from the recommendations from the 2008 energy audit. Cultural shift in the county since the program started as department heads have bought into energy-aaving goals. Department heads now go to the sustainability coordinator with ideas. Fund initiated because of the sustainability plan's energy use reduction could of 2016.

Jurisdiction	Dept in Charge of Program	Process	Further Considerations
City of El Cerrito (CA)	Environmental Services Division (staff climate protection capacity) Environmental Services designate one of their analysts as the "Fund Manager" who has primary responsibility for fund administration (administration, bill monitoring, reporting, budgeting)	EWEP provides mechanism for identifying, evaluating, and planning projects, and for finding matching funds Once projects are identified they still need to go through standard City approval process	EWEP included as a line tem in City's Capital Improvement Program and approved each year as part of annual budget process - Cost benefit analysis of projects calculated in terms of net present value IMPV) which provides City's financial managers with confidence that project investments are fiscally sound On calculating the costs and savings from efficiency projects that are added to larger projects is to agree on and document the incremental costs of the efficiency projects. On the monitoring and verification side, determine what cost savings are attributable to the EWEP is important component of managing the fund. Key stakeholders: budget office, finance director, controller's office, legal department, facility-operating departments.
Kane County (IL)			Program was shuttered in 2009 due to lack of interested applicants due to the economic recession. Case study indicates that a large amount of seed funding is less critical to successful implementation than program persistence and effective program management.
Inyo County (CA)	Public Works staff (responsible for identifying potential projects, establishing baseline energy use to benchmark potential energy savings, project implementation, and tracking the energy and cost savings) Auditor's staff assist with tracking fund usage and replemishment Planning Department		2012 Cost, Energy and Service Efficiencies, Action Plan (CESEAP) analyzed the energy efficiency of County facilities and identified potential projects for decreasing energy use resulting in cost savings. Cost savings identified through utility bill tracking and analysis will be reallocated to the EERLF. Higher cost-benefit ratio is preferable for sustaining EERLF. Portfolio for low-cost, high-return projects will be necessary to establish repayment revenue early on since more costly projects will have longer payback periods and require more funding. Projects with quickest payback will be prioritized. Intangible project benefits (community education, replicability, and facility improvements) will be considered. Funding should be placed in a separate trust apart from other department budgets to ensure efficient accounting and protect the EERLF. Key findings during fund research: interdepartmental buy-in is important (particularly in light of limited internal resources); dedicated fund so that fund didn't draw upon General Fund and so that funding for energy efficiency projects wouldn't be allocated to other programs; it's easy to leverage fund to obtain additional grant money

Jurisdiction	Dept in Charge of Program	Process	Further Considerations
Oty of Long Beach (CA)		Departments along with the "I-team" (Bloomberg grant- funded innovation team) submit project proposals evaluated by an interoperatmental committee Proposals will be ranked according to their potential for ongoing savings, estimated payback period, likelihood of success, and innovative approach Recommended projects will be presented to full City Council for final review and approval Departments with a selected project will be required to repay revolving loan through their year-end surplus if available. If department's operating surplus is greater than annual savings resulting from project, department will be permitted to pay back more of the loan from the surplus. If department's operating surplus isn't sufficient to pay back loan, loan repayment will be extended and/or other budget surpluses will be used to replenish the Fund. As Fund is replenished, more projects can be funded. After department has repaid its loan, there will be continued savings that accrue	
City of Montpeller (VT)	Revolving Loan Committee: 3 members of City staff (Management, Finance, and Engineering) and 3 volunteers from Montpelier Energy Advisory Committee (MEAC)	MEAC went to City Council to request funding for energy audits of the 6 main municipal buildings and then put out an RFP for Level 2 audits of these buildings. After audits were complete, MEAC met with each building operator to review audit recommendations and identify projects with short payback periods. - Committee meets quarterly to review proposals. - At the end of each fiscal year, the committee will verify each project's savings for tracking in GRITS and the find balance will be adjusted accordingly.	Montpelier Energy Advisory Committee (MEAC) focuses on helping Montpelier Identify energy-related projects that help the municipality reduce fossif five and electricity use while also saving money. After successful completion of several major initiatives, MEAC wanted to find out how to reinvest savings from municipal projects into additional energy-related initiatives. Partnered with Sustainable Endowments Institute for sustainability fund best practices. Fund can also be used to pay marginal costs of energy improvements within larger capital projects Loan creates flexibility and allows the City to develop and implement projects quickly; reduces the need to incur debt and maintains postive cash flow for each energy efficiency project; works through and reduces deferred maintenance projects, lowering overall operating costs; leverages capital improvement project funds to significantly improve the efficiency of equipment All projects tracked through GRITS (provided by Sustainable Endowments Institute) Project Selection Criteria: simple payback period; total project funding needed and fund availability; life cycle cost benefit to the city; annual GHG emissions reduction; annual energy usage reduction; project schedule and sart date; project cost; resources conserved (water, waste). Projects with a faster payback period will be prioritized. Projects can be bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bundled together to helo reduce the overall payback period; bund

Jurisdiction	Dept in Charge of Program	Process	Further Considerations
City of Moreno Valley (CA)	Planning has primary control over fund. Planning Division's Community Economic Development Department: coordinate with affected departments on energy/solar audits, projects, rebate applications and implementation; facilitate and track fund transfers and deposits to the Fund Pinance and Management Services Department: deposit rebates and incentives; track and report on rebate/incentive deposits and fund transfers to the Fund Pacilities Maintenance, Administrative Services Department: coordinate with Planning Division staff regarding energy/solar audits, rebate applications, and energy project implementation for their projects Otly Electric Utility, Public Works: City Utility provides access to monitoring info for electricity use for City-owned facilities Capital Projects Division, Public Works: Coty Capital Projects Division, Public Works: coordinate with Planning Division staff?		- City manager, finance director, and division managers supported EE fund policy. Had initial buy-in to pursue creation of fund. - Centralized billing, only Facilities reviews the bils. - Projects with highest payback are given priority. - Future funding for energy efficiency efforts from 100% of energy efficiency rebates and incentives received from utilities and 50% of the actual energy savings recorded for first 2 operational years for completed energy efficiency projects)
Oty of Nashville (TN)	Department of General Services' sustainabilit	 \$2 million seed money will pay for energy audits then take recommendations to prioritize them then conduct building retrofits in the most energy consuming facilities. Utility savings balance will go into a new Business Unit to be reinvested in additional capital investments 	 General Services' sustainability team will install a new energy management system to track and manage the projects and energy savings- software will be able to organize, brack, visualize, benchmark, and effectively communicate trends of all commodities related to energy consumed by buildings managed by Department of General Services
Portland State University (OR)	 Campus Sustainability office manages the Fund in collaboration with Facilities & Property Management, Capital Projects & Construction, Engineering faculty, and the Planning, Construction, and Real Estate finance team 	 Project Selection Committee (made up of representatives from each of the departments involved with the fund) select projects based on the criteria each project meets 	• Project selection based on return on investment - providing an tangible, measurable, fiscally responsible benefit to PSU measured by savings in utilities budget. • Project payback is tiered based on project criteria: project must meet 10 year payback period if project only incorporates required criteria; project must meet 15 year payback period if project incorporates required criteria and at least 2 preferred criteria. • Required project selection criteria: deferred maintenance projects that result in conservation of resources; sustainability benefit that demonstrates the greatest reduction in environmental and economic impact and promotes equity. • Preferred project selection criteria: racial equity, impact, encourages education, information and innovation, promotes PSU's institutional vision,

Jurisdiction	Dept in Charge of Program	Process	Further Considerations
Riverside County (CA)	Economic Development Agency responsible for identifying and selecting projects to be performed with the Fund	 Deposited rebates and incentives into Efficiency Project. Fund funds additional energy or water efficiency projects 	All rebate and incentive checks deposited into Energy Conservation Fund Not a loan program Referenced in Board of Supervisors Policy H-4 Use EnergyCAP for utility bill management. EnergyCAP ranks buildings by performance (cost/SF, use/SF) which feeds energy efficiency project decisions
City of Sacramento (CA)	 Previously, Department of General Sevices (DGS): provide energy audit, devices (DGS): provide energy audit, design, implementation, and measurement/verification for the projects. - Currently, Department of Public Works manages Program 	City Manager establishes revenue and expenditure budgets in the Energy Reinvestment Program in ongoing capital improvement project	 As a result of Resolution 2009-736 which established the Green Facilities Program, now in 2011 established the next teration of funding for City facilities called the Energy Reinvestment Program CIP Former Department of General Services (DGS) conducted initial energy audit and modeling for all agency facilities which helped identify and flustrate the savings that can be realized by changing to more efficient systems DGS presented energy efficiency project options to various city departments and 5 entered agreements to upgrade systems. Payback designed to be one neutral for each department and to reduce the department's budget after the loan is repaid in full
City of San Antonio (17x)	Sustainability Office develops, implements, and monitors a project Office of Management and Budget	Sustainability Office uses EPA's ENERGY STAR Portfolio Manager to establish baselines, identify and prioritize projects and measure and track avoided costs. For higher capital-cost projects, the Sustainability Office references the CIP and works directly with the Building Equipment and Services Department to identify its priorities. As the Sustainability Office develops a project, it bundles services across multiple facilities based on type of retrofit. Office doesn't combine lighting and mechanical retrofits to lower project payback, but it does bundle multiple lighting projects across buildings to achieve economies of scale in bulk pricing and in level of effort for project administration.	 Sustainability Office presented the business case for the Fund to the city manager, chief financial officer, budget director, and the Finance and
City of San Jose (CA)	 Public Works administered, but fund is a General Fund account Coordination between Departments of Environmental Services, General Services, CIty Manager's Budget Office, and Attorney's Office 	Public Works completes approval form which details the project, cost, savings, and payback. Affected department signs approval Budget office update to transfer funds General Services' Senior Engineering Technician coordinates with Energy Officer on energy/solar audits, rebate applications, and Energy Project Implementation	Fund closed in 2009 with money reapportioned during fiscal crisis Set up to fall: Only 2 years of savings were repaid which is less than went out (new so politically conservative in structure) Fund paid for a full time energy manager Repayment only included project costs, not staff costs. Annual funding programmed as part of 2006-2010 Proposed Capital Improvement Program. Not established as a revolving loan fund. Savings go back into General Fund. Set up Enery Fund Transfers and Deposit Standard Operating Procedures to standardue process. Extend revolving fund from 1 year to 2 years. Planed to use EECBG funds to install more smart street lights and apply the dollar savings from those

Jurisdiction	Dept in Charge of Program	Process	Further Considerations
San Luis Obispo County (CA)	Public Works Pinance division and County's Energy and Water Coordinator		 Departments aren't in charge of paying their own utility bills, so there's no incentive to change behavior. Public Works pays for everyone's utilities. Fund is its own budget line term separate from General Fund. Sustainability liaisons within each County department. Fund doesn't incorporate operation and maintenance savings in annual estimated savings due to difficulties in estimating O&M savings and accounting for them.
San Mateo County (CA)	Key Departments (GOCAP implementation team)	 Departments will identify priority actions over next 2 years and budget GOCAP-related costs for PY21-22 and FY22-23 Funding requests to cover the cost of priority actions identified by the implementation team may be presented to Board for consideration in upcoming budget cycle 	 Adequate and consistent long-term program funding to realize many of the actions still needs to be identified Considering revolving loan fund to capture money from energy bill, fuel and/or maintenance savings to fund future projects.
City of Santa Barbara (CA)	Public Works Energy Team	estimate project costs, energy savings, payback periods, rebates and incentives, and the useful life of the improvements. Projects prioritized primarily by internal	Started with 3 year payback period to grow Fund as fast as possible. Not that many 3 year projects left, so had to start choosing projects with longer payback periods. Mostly prioritize projects based on payback period. • All energy-related rebates, incentives, grants, and similar project-related inflows (except those applied by an Enterprise Dept) will be treated as capital contributions to the EE Fund. • Energy Team's direct time and material costs for managing a project will be included in project cost and paid for by EE Fund. Reimbursement depends on project's complexity, but not exceed 10% of project's installed costs. • Once benefit period ends, cost savings for remaining life of improvements will accrue 100% to the benefit of the General Fund. Over time, host departments will realize reduced utility, operating, and maintenance costs. Departments will realize reduced utility, operating, and maintenance costs. Department may experience no net impacts to their energy budgets savings to General Fund departments in the form of bigger budgets. 3 years benefit period after variable payback period (vary depending on project; will have to be extended once all low-hanging fruit projects completed). • Energy Team submits annual report to Oversight Committee, City Manager, City Council, and Finance Department.

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Santa Clara County (CA)	Facilities and Fleet Department Office of Sustainability	 Office of Sustainability works with group of directors (Stewardship Team) that make up smaller working groups. Have to go to Administrative Capital Committee every time you want to touch the fund. 	 \$5 million allocation came into existence in FY18/19 when multiple sustainability items came to the board. Lumped into one amount to leave room for more flexibility. Measure of success is if the project was completed or not. Do performance tracking, but haven't put together measurements and verification plan for projects.
City of Santa Cruz (CA)		Sustainability Team Members who intend to sponsor a project will draft a narrative description of proposed project and prioritize projects based on preset criteria • Staff will confirm project eligibility when using revenues deposited into Fund which are identified for special purposes (energy rebates, enterprise funds, etc.) • Projects are recommended by Sustainability Team and approved by City Manager during annual budget process • Climate Action Staff drafts annual report to City Council on projects implemented through Fund	 Fund established to receive funds paid to City from State and Federal environmental incertives and rebates, energy efficiency rebates, and an annual fleet fuel surcharge Program designed so City spends 2/3 of the accrual in a given year, allowing the remaining 1/2 to roll into the next budget cycle Sustainability team comprised of employees from all departments
Sonoma County (CA)			Board created a Climate Ad Hoc in 2020 and they're looking at a short list of projects to move forward Pf21/22 while discussing the creation of Climate Resiliency Fund Hosting Climate Town Hall and Board Climate Workshop to get a better lited of what, when, and how they want to fund
Union County (NC)	representative, General Services, Finance Department, Consultant)	Put seed money into revolving energy fund Do energy efficiency assessment of building portfolio to identify high return energy efficiency projects, costs, and ROI Monitor energy savings results identify energy savings Percentage of savings used for other projects and a percentage of savings reinvested into revolving energy	

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University of Vermont (VT)	Vice President for Finance and Administration and the Director for Sustainability Advised by Energy Initiatives Committee	• When a project is approved, disbursements are made from the cash reserve fund to the campus operating budget responsible for implementation • When savings are produced from these projects, usually within the general fund utilities budget, they're then split. Interest (5% of outstanding principal) is sent to operating budget account where investment returns from the cash reserve fund normally go. The remander is transferred as a principal payment to revolving fund account, replenishing the cash reserve with capital used for future projects. • Once loan is repaid in full, the general fund utilities budget is adjusted accordingly and afterwards savings accrue to the university instead of revolving fund account.	Fund was approved by Board of Trustees and consults with statewide efficiency groups on project identification and planning Any increases in utility rates aren't factored into the calculations of project savings to be conservative regarding savings Example of an accounting model Green Revolving Fund
US General Services Administration		 Research and compare energy efficiency of GSA high- performance buildings to GSA legacy stock buildings Investigate improvements to accounts and project tracking systems to better understand the actual cost savings associated with specific types of buildings and incorporating proven tactics and technologies into existing buildings to improve performance 	• GSA uses performance contracts to reduce energy and water use via building upgrades that are cost-effective over their service life, but are beyond currently limited capital budgets • Contracts leverage private-sector financing for immediate upgrades and repay investment over time using funds which are freed up by the reductions in utility cost achieved by the project • GSA pays for performance contracts from existing utilities budget and structures new contracts to be budget-neutral and require no upfront expenditures • Utilizes Energy Savings Performance Contracts (ESPCs), ENABLE ESPCs,
State of Utah	Utah Division of Facilities Construction and Management	 Project applications and funding requests are submitted by the State Building Energy Efficiency Program (SBEEP) Manager and Utah State Building Board 	Borrowed funds are paid back into SFEEF so it can be lent out again Energy Program Manager oversees funding and project specifics
City of Visalia (CA)	Natural Resources Conservation part of Administration Dept	 Department submits request "Contract" is developed detailing project (estimated energy savings, payback period) and signed by department head and city manager Finance pays for everything and departments get a copy of their bill to look at their energy usage. 	City Council bought in easily because it was simple to understand and was framed as a business case rather than as resource conservation effort. Other departments bought in because they could use funds without having to spend staff time. Preference given to projects that leverage grant funding and/or utility incentives. Current lack of acceptable projects since low hanging fruit is done. Increased payback period to 10 years because all of low-hanging fruit gone. City council has discretion over fund and risk may mean budget shortfall.
City of Watsonville (CA			Project applicant can be refunded a portion/all of their Carbon Impact Fee if they reduce their development's average annual electricity demand by 40-80% or more through on-site renewable energy and/or energy efficiency. Applicants use a simple form to complete the calculations as part of the permit process. Carbon feeds collected are automatically routed to Carbon Fund No criteria for prioritizing or selecting projects because criteria already laid out in CAP Fund does not pay for staff time, only for projects