TRAVERSE CITY
LIGHT & POWER

FY 2026-27 Six-Year Capital Improvement Plan

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About Traverse City Light & Power

Traverse City Light & Power (TCLP) prides itself on being a responsive and community-powered utility with a level of programs and services that enhance our quality of life and make Traverse City a better place to live. Our residential, commercial and industrial customers enjoy reliable power and fiber optic services at low rates because we're community-owned.

In addition to contributing to Traverse City's financial stability, TCLP is also committed to investing in a wide variety of community-related projects that range from environmental programs to education.

Executive Director's Cover Letter

Each year, Traverse City Light & Power (TCLP) prepares a six-year Capital Improvement Plan to guide how we invest in the infrastructure that powers and connects Traverse City. This year's plan—covering July 1, 2026, through June 30, 2032—reflects the most intentional and future-focused planning cycle we have yet undertaken. It tells a story not just of projects, but of a utility stepping fully into its role as a trusted community partner and an innovative anchor for the region's energy and fiber future.

Over the past decade, TCLP has invested deeply in system improvements that are directly reflected in our excellent reliability metrics. Those results are not accidental—they are the outcome of deliberate planning, fiscal discipline, and a culture committed to doing things the right way. As we look ahead, the responsibility is clear: we must maintain that reliability while continuing the thoughtful transformation our community expects from its hometown utility.

What makes this forecast immediately noticeable is that it is not filled with dozens of new investments. Instead, it contains a set of *high-quality, high-impact projects* that reinforce the foundation on which all future innovation depends. Facility renewal, substation reinvestment, the modernization of our EV charging network, and the ongoing expansion of our fiber-enabled smart grid are essential for stability—and they are necessary precursors to the grounded growth our Strategic Plan envisions.

At the same time, this CIP is one of the most innovative and forward-looking in TCLP's history. It includes renewable investments, early-stage wind exploration, geothermal concepts, and energy storage planning—all paced in a way that ensures steady advancement without overextending resources. This is the first CIP that fully reflects *every* strategic priority in our Strategic Plan. It is a tangible demonstration that our organizational planning, cross-functional coordination, and long-term vision have matured in meaningful ways.

In many respects, this CIP illustrates TCLP's transformational framework—
Stabilization → Renewal → Grounded Growth—
coming to life:

- **Stabilization** gave us clarity, process discipline, and room to breathe.
- **Renewal** strengthened our systems, aligned our teams, and modernized our technical backbone.
- **Grounded Growth**, the stage we are entering now, represents steady, meaningful progress rooted in strategic clarity, operational excellence, and community value.

This CIP captures that evolution with precision. It balances reliability and modernization. It prioritizes needs, not trends. It invests where the return is measured in safety, resilience, and community benefit. And importantly, it smooths the financial trajectory in a way that minimizes the impact on ratepayers while supporting the investments necessary to maintain a high-performing utility.

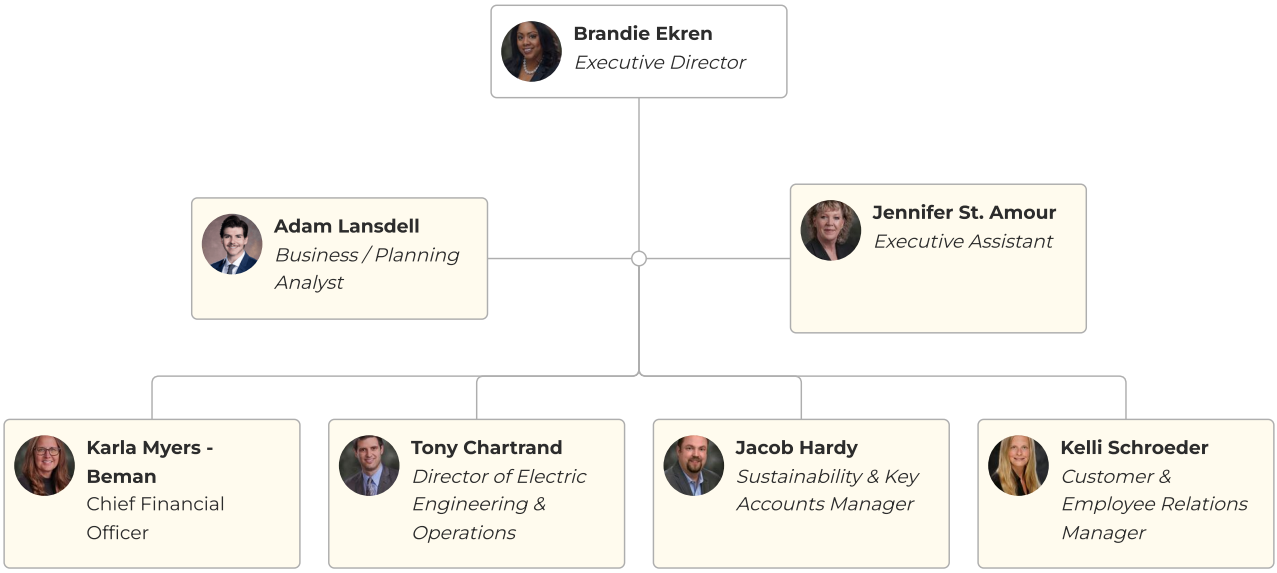
TCLP is a 113-year-old organization with its eyes firmly on the future. This plan reflects that identity—honoring the legacy of public ownership while preparing for the opportunities and challenges of the next decade. It reinforces who we are: innovative, responsible, community-centered, and committed to energizing Traverse City's future with purpose and integrity.

I look forward to discussing this CIP with you as we continue advancing our shared vision for a stronger, smarter, and more sustainable TCLP.

With Positive Energy,

Brandie Ekren
Executive Director
Traverse City Light & Power

TCLP Leadership Team



The Board

The Board consists of seven members nominated and appointed by the City Commission. Unexpired-term vacancies shall be filled by the Mayor with the approval of the City Commission.

Not less than one and no more than two of these members shall be selected by the City Commission and shall be ex-officio members with full voting authority. Members must be resident electors of the City, except that one member may be a nonresident if they reside within the current, actual service area of the department. Non-Commission Board members cannot hold any other City office, nor can they be an employee of the City.

Non-Commission Board members shall be appointed to serve terms of five years from the first Monday of April. The Commission Board members shall be appointed for a two-year term biannually at the City Commission organizational meeting.

The City Manager or the City Manager's designee shall be an ex-officio member without voting authority and shall not be counted for purposes of establishing a quorum.

The Board "shall have exclusive jurisdiction, control, and management of the Traverse City Light & Power Department and all its operations and facilities, except as herein provided. Unless specifically allocated to the City Commission or a City official, the Board shall have all the powers and duties possessed by the City to construct, acquire, expand, and operate the Traverse City Light & Power system."

Creation of the TCLP Board is required by City Charter.

Name	Role	Initial Appointment Date	Term End
Elysha Davila	City Resident	04/02/2018	04/03/2028
Suzannah Tobin	City Resident	05/01/2024	04/05/2027
Paul Heiberger	Vice Chairperson	08/06/2018	04/01/2029
John Taylor	Chairperson	05/03/2010	04/07/2030
Maura Brennan	City Resident	03/15/2021	04/06/2026
Lance Boehmer	City Commissioner	11/10/2025	11/8/2027
Laura Ness	City Commissioner	11/10/2025	11/8/2027
Benjamin Marentette	City Manager	07/21/2025	No Voting Authority

Capital Improvement Plan Defined

Why Develop a Capital Improvement Plan?

TCLP Fiber Tech installing Residential Fiber

The Capital Improvement Plan (CIP) is required by the Michigan Planning Enabling Act, Public Act 33 of 2008. The purpose of the Capital Improvement Plan is to show public structures and improvements following a six-year period providing for the time and cost of the improvements.

While this is required by statute, there are many other benefits to preparing a six-year Capital Improvement Plan. They are as follows:

- **Long-term planning** – a six-year time frame, allows for planning, assessing future organization needs, forecasting costs and prioritizing projects.
- **Financial Allocation** – used to determine the number of financial resources necessary for the organization in future years.
- **Project Sequencing** – doing this exercise allows for better coordination of projects internally and with other agencies and addressing items such as dependencies, impact on operations, and potential disruption with multiple projects moving forward at one time.
- **Stakeholder Communication** – provides clarity and transparency to the utility stakeholders such as governmental officials and the public. It can be used as a method to convey an organization's strategy and goals.
- **Risk Management** – can be used to mitigate risks associated with capital projects such as changing economic environment, regulatory requirements, and technological advancements.

Why Develop a Capital Improvement Plan?

Overall, a CIP creates a structured approach to capital investment planning, providing for informed decisions and the opportunity to optimize resource allocation and better achieve long-term goals/objectives.

The CIP is structured into eight major categories: generation, transmission, distribution, electric vehicle charging stations, facilities, joint projects with City of Traverse City and DDA, and fiber optics.

Included within the plan are the project funding sources. These sources include federal/state, which consists of federal and state grants, local, which consists of local grants/contributions, financing, and internal funding from the fund's net assets.

All capital projects are included for authorization by the Traverse City Light & Power Board ("Board") and City of Traverse City Commission except for new extensions of services and emergency repairs.

Timeline & Processes

Each Fiscal Year the CIP is developed using a core 5-step process as demonstrated below. In addition to these milestones in the process, the CIP undergoes various sub-process evaluations to ensure projects meet certain criteria related to priority evaluations, financial feasibility/capital governance and strategic plan alignment. These processes are outlined in the following section.

Evaluation Criteria

- **Strategic Plan Alignment** – how the project aligns with the strategic plan priorities and objectives.

- **Climate Action** – enhances sustainability, leverages efficient electrification, minimizes energy waste and contributes to the utility's decarbonization goal/climate action plan.

- **Financial Value** – including the return on investment, such as efficiency gains with internal vs external labor, reduction of outage costs and life cycle costs, and even considering those not financial in nature, along with the type of funding source. Additionally, the staff is moving towards requesting solicitations and quotes for projects within the first year of the Capital Improvement Plan to solidify the amount of project costs expected to be incurred.

- **Customer and Employee Value** – how the project will impact how customers/employees perceive the utility and how it will meet or exceed customer/employee expectations.

- **Risk Mitigation** – provides for mitigation of the following risks:

    - Legal and Regulatory – prevents the adverse consequences of a failure to comply with legal or regulatory requirements.
    - Operational – prevents the risk of loss from failed processes, unskilled employees, inadequate systems or external events.
    - Technology – prevents risk to information technology or data or applications that negatively impact business operations and/or loss event scenarios within the cyber realm, such as phishing, malware and data breach.
    - Competitive – prevents the risk of competitors developing new technologies or introducing new products.
    - Strategic – a plan is developed to mitigate internal/external risks relating to the execution of the project including changes in management, change in customer demands or expectations, damage to the utility's public value, and financial challenges such as liquidity strength, supplier and vendor performance.

- **Operational Excellence** –

    - Utilization Improvement — project provides efficiencies in operation to allow labor/equipment to be focused on the defined needs of the utility.
    - Creates a Process Automation project that mitigates the risk of human error and provides efficient automation of previous manual processes.
    - Improve Reliability – project is expected to reduce the number of system outages and/or enhance grid resiliency. Improve the ease of maintenance or decrease outage times.

- **Flexibility** – the ability for a project to be moved within the years of the Six-Year Capital Improvement Plan or beyond that does not hinder adherence to the utility's purpose.

- **Innovation** – a project the utility has not undertaken in the past and is considered an improvement project that affects several customers, influences how the utility operates, requires new skills for the workforce, uniquely solves a problem, enhances the utility's brand or reputation, and might inspire other utilities, local governments, and businesses to do the same project.

Electric Fund Project Prioritization Process

In addition to the previous predetermined criteria mentioned, the utility took into consideration projects that are stabilizing in nature (practice of ensuring something doesn't dramatically change, fail or decline), renewal in nature (innovation, reimagining, reorganizing, or updating) and growth in nature (leveraging progress and opportunities in a sustainable and viable fashion).

Projects were segregated into two subcategories: 1) stabilization and 2) renewal and growth, then separately reviewed. These projects were prioritized within the subcategories.

This was then followed by a third layer of evaluation that took into consideration those assets currently in service based on their probability of failure and the impact of failure if it were to occur. This third layer provides the utility with the confidence that these projects are placed in the correct priority sequence on the cashflow.

TCLP Staff members are currently underway with developing a Capital Governance Program to be presented to the Traverse City Light and Power Board. A board policy that is supplemented with a responsive executive order is envisioned. Programs such as this create alignment with organizational best practices and set standards for being a "best in class" utility. Many of our recent year's process enhancements provide a platform for continuous improvement.

Capital Governance Program

The Capital Governance Program will establish a structured framework for planning, prioritizing, executing, and monitoring capital projects within the utility. This program will include two key components:

Board Policy: The Board Policy will provide high-level guidance and direction appropriate for Board oversight. It will focus on principles and strategies to ensure alignment with the utility's mission, vision, and strategic priorities.

Executive Order: The Executive Order will operationalize the program, detailing processes, procedures, and standards necessary for implementation. It will address operational direction, to be further developed and refined through workflows, project management practices, and change management strategies.

The Capital Governance Program will include the following foundational elements:

1. ***Budget Classification Enhancements***
   Refine current budget categories to ensure accurate classification of capital projects, enabling the development of useful metrics for forecasting future capital project costs.

2. ***Asset Management Alignment***
   Establish appropriate asset management classifications to improve cost-of-service studies, ensuring accurate rate-setting for each utility rate class.

3. ***Capital Project Planning and Prioritization***
   Enhance project planning by implementing a capital project ranking methodology. This will assess factors such as reliability, return on investment, and alignment with organizational priorities.

4. ***Formal Review and Approval Process:***
   Develop a formalized review and approval process for all capital projects to strengthen internal controls. This will distinguish between discretionary and non-discretionary projects.

5. ***Capital Project Monitoring:***
   Enhance the capital project monitoring process to provide adequate decision-making time when projects require course corrections due to unforeseen circumstances or environmental changes.

6. ***Enhanced Reporting and Software Evaluation:***
   Evaluate current and potential software solutions to improve reporting capabilities. This includes enabling real-time tracking of labor, equipment, materials, contractual costs, and seamless integration into the fixed asset system.

Risk Assessment and Documentation
Increase documentation of potential risks for each capital project by type and category, addressing:

- Legal
- Technological
- Reliability
- Customer Impact (External/Internal), including Safety
- Financial
- Operational
- Innovation
- Strategic Plan Alignment

Funding Strategies

Funding Strategy:

Each project included in the CIP has designated the ideal funding scenarios for the six-year capital improvement plan. While most of our planned investments will utilize internal funding, TCLP is also exploring external funding opportunities in the form of State and Federal grants, bond/loan programming and additional collaboration opportunities with regional organizations and local government for mutual cost-sharing benefits.

Funding Authorization:

The utility reviews the target operating income each year during the budget process to ensure the utility rates are funding the inflationary costs of replacing existing and investment in new infrastructure. Requests for project authorization will involve a cash flow analysis to ensure proper planning prior to the commencement of a project.

External Funding Opportunities:

For CIP projects that extend into later years or require significant capital investment, TCLP continues to evaluate and align external funding opportunities as projects mature and as relevant programs become available. Over the past several years, TCLP closely tracked and reviewed a variety of federal and state initiatives to determine which opportunities best aligned with our project portfolio, strategic priorities, and community objectives.

While previous CIP cycles reflected a highly favorable external funding environment—especially following the passage of the Inflation Reduction Act (IRA)—the broader funding landscape has shifted. Many programs that were anticipated to provide substantial support for utility-scale and community-focused energy projects have experienced slower rollouts, increased competition, reduced funding levels, or cancellation. As a result, TCLP is adopting a more measured approach to forecasting the role external funding will play in major CIP and DER investments.

Despite these challenges, TCLP remains committed to leveraging available programs that support national and state climate and energy goals. These opportunities continue to emphasize investments in grid modernization, reliability and resiliency improvements, distributed energy resources, facility efficiency, electrification, EV charging infrastructure, and customer programming. Key federal initiatives, particularly the IRA, still present meaningful potential for utilities that are well-positioned with developed concepts and ready-to-advance projects.

The Inflation Reduction Act—enacted in August 2022 as the largest federal climate investment in U.S. history—continues to provide pathways for clean energy tax credits, direct-pay incentives for public power organizations, and competitive grant opportunities. TCLP remains prepared to pursue applicable IRA-related programs as cycles open, while considering the increasing time and effort required for application development, program review, and award processing.

While initial expectations for IRA-related grant availability were high, the current reality requires targeted and strategic pursuit. TCLP's advantage lies in the fact that many existing or previously developed projects already align strongly with IRA priorities, enabling the utility to move quickly when viable opportunities emerge.

State-level initiatives also continue to evolve. Recent Michigan energy and clean-technology legislation remains aligned with federal objectives—advancing American-made clean energy, improving building efficiency, reducing emissions, and strengthening community resilience. Although the pace of certain programs has slowed, the State of Michigan still anticipates significant federal investment flowing into local and regional clean-energy efforts, maintaining opportunities for utilities like TCLP to benefit from coordinated federal–state funding frameworks.

Looking forward into FY26/27, TCLP's external funding strategy emphasizes:

- Targeting opportunities with clear alignment to CIP and Strategic Priorities.
- Prioritizing competitive programs with strong track records and stable funding.

- Avoiding reliance on speculative or uncertain awards for baseline CIP budgeting.
- Maintaining readiness—scoping, concept development, and preliminary analysis—to respond rapidly when higher-probability opportunities arise.
- Leveraging smaller but reliable incentives, rebates, and direct-pay tax credit mechanisms to enhance project affordability, especially for DER and resiliency investments.

Although the external funding environment is more constrained than in previous years, TCLP remains well-positioned to capture value from programs that continue to advance clean energy adoption, grid resiliency, and long-term community goals. The utility will continue monitoring legislative developments, program updates, and emerging opportunities to ensure that CIP and DER investments remain both strategic and financially responsible.

Sustainability

Under the guiding principles of our Climate Action Plan, we recognize it is vital our CIP projects revolve around reducing our carbon output. All initiatives are included for the purpose of contributing to a cleaner and more resilient energy infrastructure. They also are fostering the transition towards a low-carbon future, mitigating climate change impacts, and improving the overall health of our planet.

Projects included in this plan cover five main sustainability features:

- Renewable Energy
- Grid Modernization
- Battery Storage
- EV Infrastructure
- Demand Response

Strategic Plan Alignment

Throughout the planning stages of our Capital Improvement Plan, TCLP has worked to ensure that committed projects were in alignment with our Strategic Plan. We feel it is important that in all the work we do, we are guided by the core pillars of that document. These include our Mission, Vision and Value statements, our Strategic Objectives and our Strategic Priorities.

This section of the Capital Improvement serves as a reminder of the definition of these elements, as well as our evaluation of how each project drives a piece of our Strategic Plan forward.

Mission & Vision

Mission Statement:

"To serve as the trusted community partner for delivering innovative, affordable, reliable, and environmentally sustainable energy and telecom solutions."

Vision Statement:

"To lead with positivity, creating a brighter future for all. As an innovative electric and telecom utility, we harness the power of clean energy and fiber connectivity through sustainable partnerships, services, and programs. We enrich our communities by anticipating and exceeding evolving customer needs with operational excellence."

Values

Our Values are Integrity, Sustainability, Innovation, Collaboration & Optimism.

- **Integrity**: Upholding the highest ethical standards of honesty and conduct to ensure the safety and reliability of our services as a testament to our commitment to the customers, community and stakeholders we serve.
- **Sustainability**: Embracing environmental stewardship, positive social impact, and economic stability to ensure a thriving planet and prosperous communities.
- **Innovation**: Embracing change and pioneering forward-thinking solutions to meet the future head-on.
- **Collaboration:** Fostering inclusive partnerships and teamwork, uniting diverse perspectives to achieve common goals and build stronger, connected and energized communities.
- **Optimism:** Fostering a positive outlook as we navigate challenges and seize opportunities.

Strategic Priorities:

Our Commitment To Our Future And Those We Serve

TCLP's Strategic Priorities are:

1. Community Enrichment
2. Customer Experience
3. Employee Excellence
4. Operational and Financial Excellence
5. Technology Transition
6. Environmental Sustainability

Further details about each Strategic Priority, accompanying Strategic Objectives and various plan investments are outlined below. The included "Notable Projects" are just a few examples of how the utility is moving the Strategic Plan forward via the Capital Improvement Plan.

1. Community Enrichment

Embrace the benefits of public power for current and future generations by fostering a vibrant and thriving community, as an invested civic partner fueling economic growth and sustainable development.

Strategic Objectives:

1. **Strengthen Partnerships with Community, Customers & Local Organizations:**
   Establish collaborative projects that address community needs, leverage local expertise, and share resources for broader impact.

2. **Increase Community Outreach and Volunteer Efforts:**
   Organize and participate in community service and volunteer programs that support local initiatives, to enhance TCLP's impact on making a positive contribution to community well-being.

3. **Enhance Community Educational Programs & Environmental Sustainability Initiatives:**
   Develop and deliver educational programs focused on environmental sustainability, clean energy, and the benefits of fiber connectivity through engaging schools, community centers, and online platforms.

4. **Seek Mutually Beneficial Infrastructure and Technological Investments:**
   Pursue infrastructure projects and technological investments that offer long-term benefits to the community, such as expanding fiber connectivity to underserved areas and investing in renewable energy sources.

Notable Project Alignments

Project(s)	Alignment(s)
Sustainable Innovation Campus - Multiple.	**1.1**
Renewable / Battery Storage Demonstration	**1.3**

2. Customer Experience

Elevate the customer experience by delivering unparalleled service quality, introducing cutting-edge, customer-driven offerings, and fostering seamless, engaging interactions across all digital and physical touchpoints.

Strategic Objectives:

1. **Improve Customer Service Quality and Responsiveness:**
   Enhance response times and customer satisfaction scores through targeted service improvements and staff training.

2. **Expand and Create New Innovative Customer Programs and Service Offerings:**
   Introduce new programs and services that meet and exceed evolving customer needs, with a focus on sustainability and digital connectivity.

3. **Increase Community Engagement in Sustainability & Fiber Initiatives:**
   Increase awareness and grow community participation within TCLP's sustainability and fiber connectivity efforts through outreach and engagement activities.

4. **Enhance Customer Outreach and Programs:**
   Implement comprehensive outreach strategies to ensure customers are well-informed and can easily access TCLP's programs and services.

5. **Strengthen Digital Engagement and Feedback Mechanisms:**
   Develop and enhance digital platforms to improve the interactive customer experience, increase engagement and ease feedback collection.

6. **Promote Educational Initiatives and Personalized Services:**
   Launch educational campaigns on the benefits of sustainability and fiber connectivity by introducing personalized service offerings to enhance customer relevance and engagement.

Notable Project Alignments

Project(s)	Alignment(s)
Smart Grid Expansion	**2.1**
Distribution Relay Replacement	**2.1**
Grand Traverse Substation Equipment Replacement	**2.1**
Sustainable Innovation Campus — Multiple	**2.1**
South Airport Road Ties	**2.1**

3. Employee Excellence

Cultivate a high-performing, collaborative, and versatile team that excels in their current roles and is equipped to handle future challenges and opportunities.

Strategic Objectives:

1. **Elevate Skill Proficiency and Role Excellence:** Develop targeted professional development programs that enhance key competencies and technical skills relevant to both current roles and future industry trends, ensuring the TCLP team is well-prepared for the challenges and opportunities ahead.

2. **Foster a Culture of Continuous Learning and Adaptability:** Implement initiatives that promote lifelong learning, encourage flexibility, and support the TCLP team in adapting to new technologies, methodologies, and industry shifts, reinforcing a culture that values growth and resilience.

3. **Boost Team Engagement and Satisfaction:** Create and maintain an engaging, supportive work environment that prioritizes the well-being and job satisfaction of every team member, aiming to increase overall engagement, reduce turnover, and attract talent.

4. **Cultivate Leadership and Succession Readiness:** Establish a comprehensive leadership development and succession planning program to identify and prepare potential leaders within our team, ensuring a seamless transition continuity in key roles and maintaining excellent customer service.

5. **Implement Effective Change Management Practices:** Develop and execute a robust change management framework that equips our team to navigate organizational changes with confidence, ensuring they are ready to embrace new challenges and contribute to TCLP's evolving success.

Notable Project Alignments

Project(s)	Alignment(s)
Sustainable Innovation Campus — Multiple	**3.3**
Capital Equipment	**3.1**

4. Operational & Financial Excellence

Drive excellence and resilience in energy and telecom operations with innovative technologies and practices, prioritizing safety, reliability, and responsiveness to TCLP customers. Bolster TCLP's financial resilience by strategically diversifying revenue streams and enhancing financial management practices.

Strategic Objectives:

1. **Maintain Benchmark Designations for Best-in-Class Service:** Uphold and secure benchmark designations from the American Public Power Association (APPA) and other relevant bodies, affirming TCLP's leadership in operational reliability, safety, and customer satisfaction. This reflects TCLP's unwavering commitment to excellence, positioning them as the energy and telecom provider of choice.

2. **Bolster Financial Resilience through Strategic Management:** Utilize robust financial strategies to maintain TCLP's excellent credit rating and ensure financial agility. By implementing safeguards against market volatilities, enabling strategic investments in growth and innovation.

3. **Diversify and Grow Sustainable Revenue Streams:** Actively explore and develop new, sustainable business models and high-value customer services that align with our mission and provide ample diversification to ensure TCLP's financial resilience and commitment to support community-focused initiatives and enhance value for all stakeholders.

4. **Invest in Infrastructure and Smart Technology Integration:** Commit to the continuous upgrade of TCLP energy and telecom infrastructure with smart technologies. Maintaining a focus on investments to improve operational efficiency, customer satisfaction, and reliability, that keeps TCLP at the forefront of industry evolution.

5. **Cultivate a Culture of Continuous Improvement and Adaptability:** Foster an organizational culture that values continuous learning, innovation, and adaptability. Encourage all team members to engage in continuous operational improvement initiatives, adopt best practices, and embrace change, ensuring TCLP remains

Notable Project Alignments

Project(s)	Alignment(s)
Smart Grid Expansion	4.1, 4.4, 4.5
Fiber Drops	4.3, 4.5
Renewable Battery / Storage Demonstration	4.3, 4.4
Extentions & New Services	4.1, 4.2, 4.5
Cass Road Substation to Cass Junction	4.1, 4.2, 4.5

5. Technology Transition

Embrace and integrate cutting-edge technologies to spearhead a culture of innovation within TCLP. Focus on strategic investments in new technological solutions, engaging in rigorous research and development, and forging strategic partnerships that drive organizational growth. Aim to deliver innovative customer-centric services and solutions that not only bolster revenue growth but also position TCLP as a pioneer in utility sector technology and service excellence.

Strategic Objectives:

1. **Implement New Technological Solutions to Enhance Service Value:**
   Identify and respond to emerging customer needs and market trends by creating and introducing innovative services and programs that leverage advanced technologies, to enhance customer experience and operational excellence.

2. **Boost Annual R&D Investment for Continuous Innovation:**
   Prioritize a progressive increase in R&D investment each year, focusing on strategic areas to ensure TCLP remains at the forefront of operational efficiency, environmental sustainability, and the development of customer-centric services.

3. **Forge Strategic Partnerships for Technological Excellence:**
   Establish collaborative relationships with industry leaders, technology innovators, and research institutions to co-develop forward-thinking solutions, driving TCLP and the community toward a future of technology adoption and utility sector innovation.

Notable Project Alignments

Project(s)	Alignment(s)
Smart Grid Expansion	**5.1**
Renewable / Battery Storage Demonstration	**5.2**
Sustainable Innovation Campus — Multiple	**5.2**

6. Environmental Sustainability

Lead in comprehensive environmental sustainability by reducing greenhouse gas emissions and advancing towards 100% renewable energy usage by 2040. Expand TCLP's commitment to include the preservation of all natural resources, adopting and promoting practices that ensure the sustainable management of air, water, and land. Through innovative initiatives and strategic partnerships, TCLP will set industry benchmarks in holistic environmental stewardship, extending its impact beyond energy and telecom operations to foster a healthy planet and sustainable future for its community and stakeholders.

Strategic Objectives:

1. **Reduce Greenhouse Gas Emissions:**
   Implement initiatives aimed at significantly reducing greenhouse gas emissions, with the goal of achieving 100% renewable energy usage by 2040. Implement operationalizing tactics and initiatives identified within the Climate Action Plan, which include but are not limited to clean energy resource acquisition, innovative rate designs, customer programs and integrated resource planning.

2. **Pioneer Innovative Environmental Initiatives:**
   Develop and introduce environmental initiatives beyond those identified in the Climate Action Plan to establish TCLP as a corporate leader in sustainability practices.

3. **Drive Environmental Sustainability in TCLP Operations and Energy Usage:**
   Reduce greenhouse gas emissions from TCLP's operations, facilities and fleet through strategic investments in clean technologies and practices.

Notable Project Alignments

Project(s)	Alignment(s)
EV Charger Replacements	**6.1**
Renewable Battery / Storage Demonstration	**6.1, 6.2, 6.3**
Sustainable Innovation Campus — Multiple	**6.1, 6.3**

Strategic Alignment Evaluations

The following chart demonstrates how TCLP's evaluated each submitted capital project to ensure its alignment with our Strategic Plan. Below are designations for how each project impacts our Strategic Priorities and Objectives. Evaluating in this fashion also provides TCLP with insights into which priority areas are being most heavily invested within the Capital Improvement Plan.

Project Title	Key Strategic Priority Aligned	Strategic Objectives Supported
Capital Equipment	Operational & Financial Resillience	2.1, 3.1, 4.1, 4.2, 4.5
HL-33 - Locust St	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
PC-22 - Munson, Davis to 3 Mile	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Smart Grid Expansion	Operational & Financial Resillience	2.1, 3.1, 4.1, 4.4, 4.5, 5.1
SS-22 - New Circuit	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Capital Equipment (Backyard Machine)	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Capital Tools	Operational & Financial Resillience	4.5
Capital Tools - Fiber	Operational & Financial Resillience	4.5
Cass Road Substation to Cass Junction	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
CD-24 - Pine St	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Computer	Technology Transition	4.1, 4.5
Data Center Updates	Technology Transition	4.1
Distribution Substation Relay Replacement	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
EV Charger Replacement	Operational & Financial Resillience	1.1, 4.1, 4.3, 4.5, 6.1
Extensions and New Services	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5

Facility Improvement Projects	Operational & Financial Resillience	3.3, 4.1, 4.4, 6.3
Fiber Drops	Operational & Financial Resillience	4.5
Fiber Equipment	Operational & Financial Resillience	4.5
Grand Traverse 138kV Line Rebuild	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Grand Traverse Substation Equipment Replacment	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Meter Procurement	Operational & Financial Resillience	4.5
Operational Technology Solutions	Technology Transition	4.1, 4.5
Overhead Line Improvements	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Renewable/Battery Storage Demonstration	Environmental Sustainability	4.3,4.4, 5.2, 6.1, 6.2, 6.3
South Airport Road Tie	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Street and Area Lighting Projects	Operational & Financial Resillience	1.1, 4.1, 3.1
Substation Improvement Projects	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Substation Networking	Technology Transition	2.1, 3.1, 4.1, 4.2, 4.5
Sustainable Innovation Campus — Associated Consultants (Architect/Environmental Consultant/Construction Manager)	Operational & Financial Resillience	1.1, 2.1, 3.3, 4.4, 4.5, 5.2, 6.1, 6.3
Sustainable Innovation Campus - Construction (NEW)	Operational & Financial Resillience	1.1, 2.1, 3.3, 4.4, 4.5, 5.2, 6.1, 6.3
Sustainable Innovation Campus - Owners Representative (NEW)	Operational & Financial Resillience	1.1, 2.1, 3.3, 4.4, 4.5, 5.2, 6.1, 6.3
Transmission Substation Relay Replacement	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5
Underground Line Improvements	Operational & Financial Resillience	2.1, 4.1, 4.2, 4.5

Conclusion

This Capital Improvement Plan is the practical expression of our Strategic Plan—bringing together reliability, innovation, fiscal stewardship, and community value in one clear roadmap. Each investment reflects intentional planning and responsible pacing to protect what we've built, strengthen what we rely on, and prepare for the opportunities ahead. Together, we will continue advancing a resilient, future-ready utility—energizing Traverse City's future with purpose, integrity, and positive energy.

Data Visualizations

The following data visualizations bring together all items included in our Capital Improvement Plan for a simplified overview. These visualizations include breakdowns of one-year, multi-year fashion, as well as in-depth looks at projects by type, departments and more.

The "Expenditures" section also provides quick visuals to demonstrate what funding types are expected to complete this plan.

One Year Plan

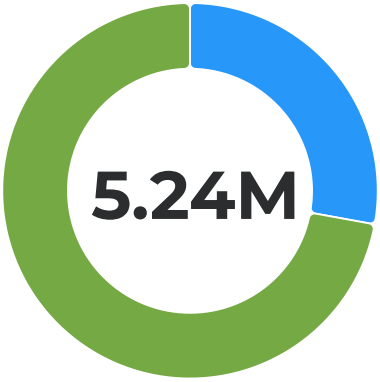
FY27 Total Capital Requested

$5,240,000

FY27 Total Funding Requested

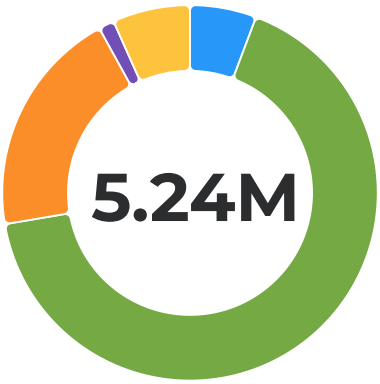
$5,240,000

FY27 Total Funding Requested by Source



Financing	$1,460,000	27.86%
Local Revenues	$3,780,000	72.14%

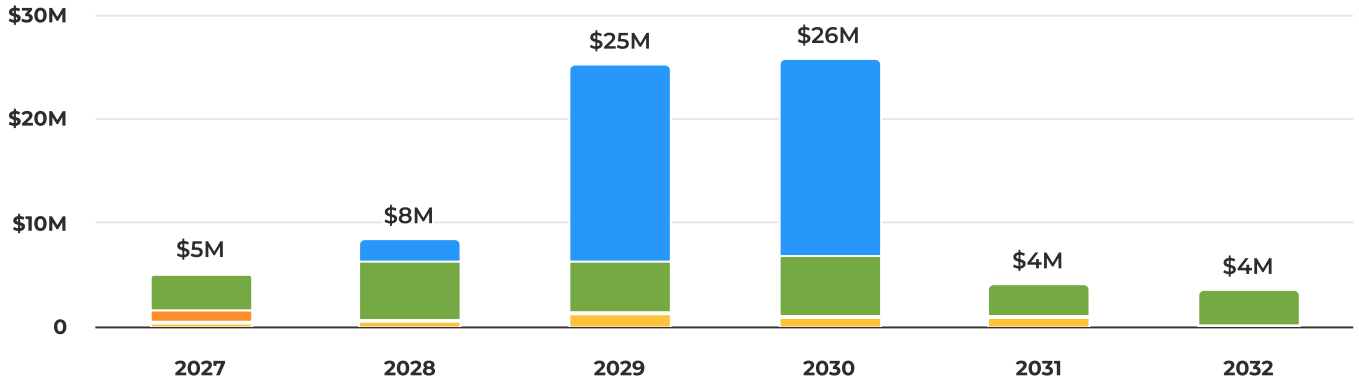
FY27 Total Funding Requested by Department



ADMINISTRATION	$300,000	5.73%
DISTRIBUTION OPERATIONS & MAINT	$3,490,000	66.60%
FIBER OPTICS OPERATIONS & MAINT	$1,030,000	19.66%
INFORMATION SYSTEMS	$70,000	1.34%
TRANSMISSION OPERATIONS & MAINT	$350,000	6.68%

Capital Improvement Multi-Year Plan

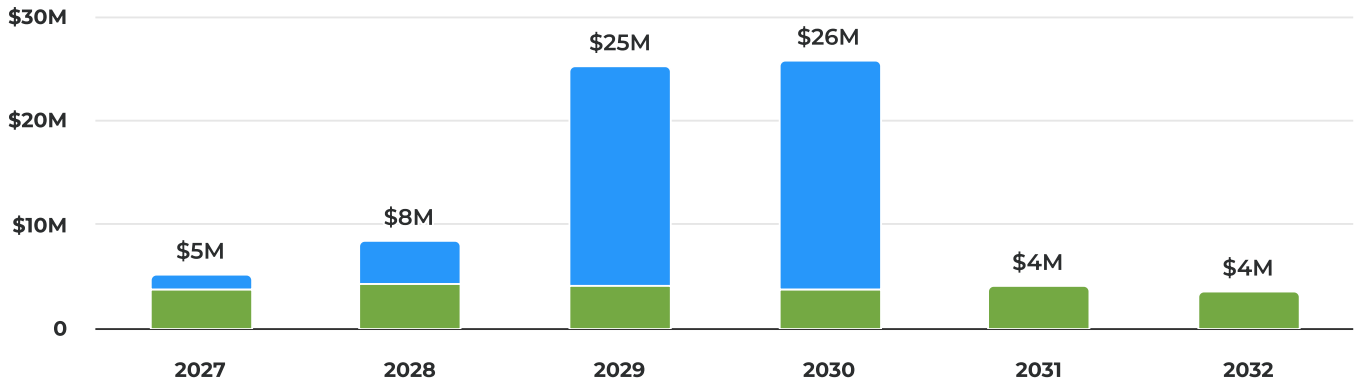
FY27 - FY32 Total Funding Requested by Department



Funding by Department Totals (all years)

ADMINISTRATION	**$40,673,200**	56.09%
DISTRIBUTION OPERATIONS & MAINT	**$26,425,900**	36.44%
FIBER OPTICS OPERATIONS & MAINT	**$1,583,000**	2.18%
INFORMATION SYSTEMS	**$70,000**	0.10%
TRANSMISSION OPERATIONS & MAINT	**$3,766,400**	5.19%

FY27 - FY32 Total Funding Requested by Source



Funding by Source Totals (all years)

Financing	**$49,286,200**	67.96%
Local Revenues	**$23,232,300**	32.04%

Capital Improvement Plan - Project Types

FY27 - FY32 Capital Costs By Project Type

Traverse City Light and Power Capital Improvement Plan Request	$72,518,500	100.00%

Traverse City Light and Power Capital Improvement Plan Request

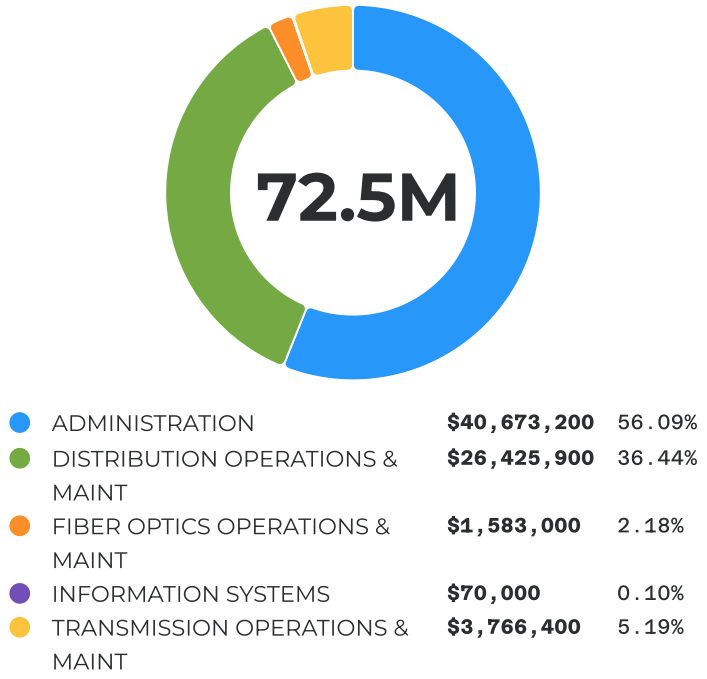
	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Total Traverse City Light and Power Capital Improvement Plan Request	$5,240,000	$8,491,000	$25,258,000	$25,827,800	$4,124,200	$3,577,500	$72,518,500

Grand Total

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Grand Total	$5,240,000	$8,491,000	$25,258,000	$25,827,800	$4,124,200	$3,577,500	$72,518,500

Capital Improvement Plan - Departments

FY27 - FY32 Capital Costs by Department



ADMINISTRATION

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Total ADMINISTRATION	**$300,000**	**$2,200,000**	**$19,086,600**	**$19,086,600**	**$0**	**$0**	**$40,673,200**

DISTRIBUTION OPERATIONS & MAINT

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Total DISTRIBUTION OPERATIONS & MAINT	**$3,490,000**	**$5,645,000**	**$4,898,400**	**$5,750,000**	**$3,145,000**	**$3,497,500**	**$26,425,900**

FIBER OPTICS OPERATIONS & MAINT

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Total FIBER OPTICS OPERATIONS & MAINT	**$1,030,000**	**$146,000**	**$123,000**	**$108,000**	**$96,000**	**$80,000**	**$1,583,000**

INFORMATION SYSTEMS

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Total INFORMATION SYSTEMS	**$70,000**	**$0**	**$0**	**$0**	**$0**	**$0**	**$70,000**

TRANSMISSION OPERATIONS & MAINT

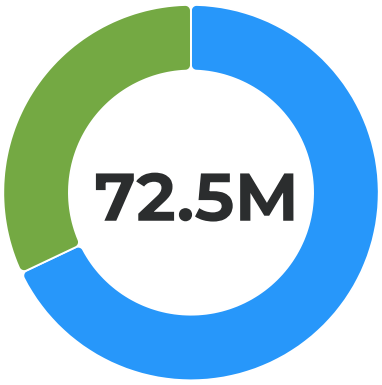
	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Total TRANSMISSION OPERATIONS & MAINT	**$350,000**	**$500,000**	**$1,150,000**	**$883,200**	**$883,200**	**$0**	**$3,766,400**

Grand Total

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Grand Total	**$5,240,000**	**$8,491,000**	**$25,258,000**	**$25,827,800**	**$4,124,200**	**$3,577,500**	**$72,518,500**

Capital Improvement Plan - Expenditures

FY27 - FY32 Expenditures by Fund



Financing	$49,286,200	67.96%
Local Revenues	$23,232,300	32.04%

Financing

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Total Financing	$1,460,000	$4,326,000	$21,189,600	$22,174,600	$76,000	$60,000	$49,286,200

Local Revenues

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Total Local Revenues	$3,780,000	$4,165,000	$4,068,400	$3,653,200	$4,048,200	$3,517,500	$23,232,300

Grand Total

	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Grand Total	$5,240,000	$8,491,000	$25,258,000	$25,827,800	$4,124,200	$3,577,500	$72,518,500

Capital Projects

Capital Projects

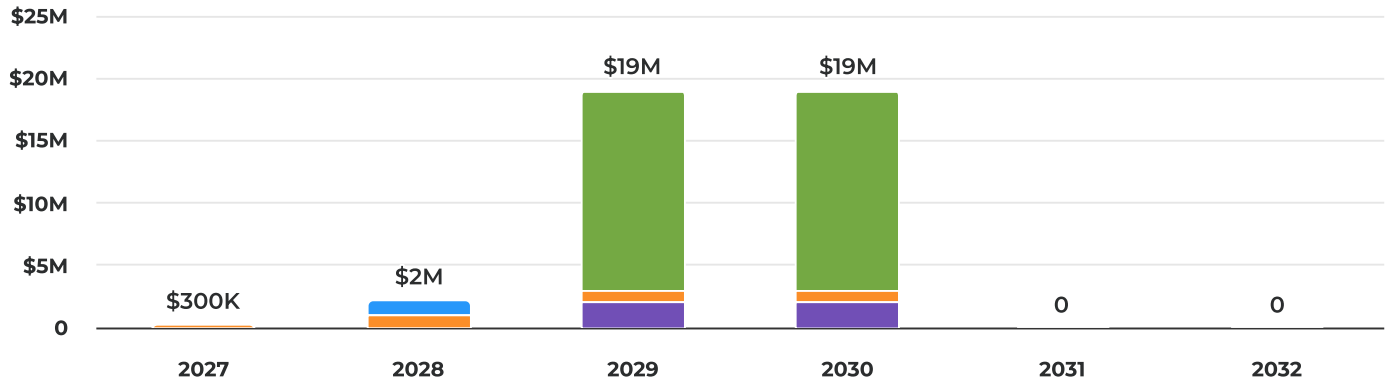
Project Name	Years	Departments	Type	Total
Capital Equipment (Logistics)	2027	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$30,000
HL-33 - Locust St	2031	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$500,000
PC-22 - Munson, Davis to 3 Mile	2032	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$700,000
SS-22 - New Circuit	2029	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$528,400
Capital Equipment (Backyard Machine) (NEW)	2027	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$80,000
Capital Tools	2027 - 2032	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$140,000
Capital Tools - Fiber	2027 - 2032	FIBER OPTICS OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$120,000
Cass Road Substation to Cass Junction	2030 - 2031	TRANSMISSION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$1,766,400
CD-24 - Pine St	2030	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$400,000
Data Center Updates	2027	INFORMATION SYSTEMS	Traverse City Light and Power Capital Improvement Plan Request	$70,000
Distribution Substation Relay Replacement	2029	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$300,000
EV Charger Replacement (NEW)	2027	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$750,000

Project Name	Years	Departments	Type	Total
Extensions and New Services	2027 - 2032	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$4,575,000
Facility Improvement Projects	2027 - 2031	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$300,000
Fiber Drops	2027 - 2032	FIBER OPTICS OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$1,413,000
Fiber Equipment	2027	FIBER OPTICS OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$50,000
Grand Traverse 138kV Line Rebuild (NEW)	2027	TRANSMISSION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$350,000
Grand Traverse Substation Equipment Replacement (NEW)	2028 - 2029	TRANSMISSION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$1,000,000
Meter Procurement	2030 - 2032	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$1,152,500
Operational Technology Solutions	2028	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$450,000
Overhead Line Improvements	2027 - 2032	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$3,075,000
Smart Grid Expansion	2027 - 2030	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$7,500,000
South Airport Road Tie	2028	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$1,200,000
Street and Area Lighting Projects	2027 - 2032	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$1,020,000
Substation Improvement Projects	2027 - 2032	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$360,000
Substation Networking	2027	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$140,000
Sustainable Innovation Campus - Associated Consultants (Architect/Environmental	2028 - 2030	ADMINISTRATION	Traverse City Light and Power Capital	$1,600,000

Project Name	Years	Departments	Type	Total
Consultant/Construction Manager) (NEW)			Improvement Plan Request	
Sustainable Innovation Campus - Construction (NEW)	2029 - 2030	ADMINISTRATION	Traverse City Light and Power Capital Improvement Plan Request	$31,773,200
Sustainable Innovation Campus - Owners Representative (NEW)	2027 - 2030	ADMINISTRATION	Traverse City Light and Power Capital Improvement Plan Request	$3,300,000
Sustainable Innovation Campus - Renewable/Battery Storage Demonstration	2029 - 2030	ADMINISTRATION	Traverse City Light and Power Capital Improvement Plan Request	$4,000,000
Transmission Substation Relay Replacement	2029	TRANSMISSION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$650,000
Underground Line Improvements	2027 - 2032	DISTRIBUTION OPERATIONS & MAINT	Traverse City Light and Power Capital Improvement Plan Request	$3,225,000

ADMINISTRATION

FY27 - FY32 ADMINISTRATION Projects



Sustainable Innovation Campus - Associated Consultants (Architect/Environmental Consultant/Construction Manager) (NEW)	**$1,600,000**	3.93%
Sustainable Innovation Campus - Construction (NEW)	**$31,773,200**	78.12%
Sustainable Innovation Campus - Owners Representative (NEW)	**$3,300,000**	8.11%
Sustainable Innovation Campus - Renewable/Battery Storage Demonstration	**$4,000,000**	9.83%

Summary of Requests

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Sustainable Innovation Campus - Associated Consultants (Architect/Environmental Consultant/Construction Manager) (NEW)	$0	$1,200,000	$200,000	$200,000	$0	$0	**$1,600,000**
Sustainable Innovation Campus - Construction (NEW)	$0	$0	$15,886,600	$15,886,600	$0	$0	**$31,773,200**
Sustainable Innovation Campus - Owners Representative (NEW)	$300,000	$1,000,000	$1,000,000	$1,000,000	$0	$0	**$3,300,000**
Sustainable Innovation Campus -	$0	$0	$2,000,000	$2,000,000	$0	$0	**$4,000,000**

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Renewable/Battery Storage Demonstration							
Total Summary of Requests	**$300,000**	**$2,200,000**	**$19,086,600**	**$19,086,600**	**$0**	**$0**	**$40,673,200**

Sustainable Innovation Campus - Associated Consultants (Architect/Environmental Consultant/Construction Manager) (NEW)

Overview

Department	ADMINISTRATION
Estimated Start Date	07/1/2027
Estimated Completion Date	06/30/2028

Description

Provide for the schematic design, design development, construction documents, permit support, cost estimating, schedule development and tracking, bidding support, contract administration support along with site assessments, environmental permitting and coordination with regulatory agencies.

Details

Project Title: Sustainable Innovation Campus - Associated Consultants (Architect/Environmental Consultant/Construction Manager)

Project Owner: Brandie Ekren

Asset Category: Facilities

Asset Subcategory: Facility Improvements

Fund: Electric

Location

Property located on Cedar Run in Garfield Township.

Character

Not applicable because this cost relates to professional services.

Extent

Not applicable because this cost relates to professional services.

Purpose and Necessity

The Hastings Street headquarters has reached maximum operational capacity and faces substantial limitations, including yard constraints, building configuration challenges, circulation inefficiencies, and aging infrastructure.

The review identified multiple safety deficiencies across the existing facility, including compromised protective separations, egress challenges, rooftop access risks, and mechanical systems at or near end-of-life. The building has undergone an excessive number of modifications over time, creating inconsistencies that elevate operational risk and complicate compliance.

Renovation or reconstruction onsite would require extensive enabling activities, temporary relocation of critical functions, and prolonged disruption—while long-term constraints would still remain.

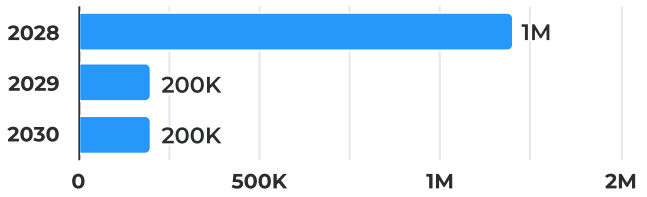
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$1.6M

Project Total
$1.6M

FY2028 - FY2030 Capital Cost Breakdown



Capital **$1,600,000** 100.00%

Capital Cost for Budgeted Years

Capital **$1,600,000** 100.00%

Detailed Breakdown

Category	FY2028	FY2029	FY2030	Total
Capital	$1,200,000	$200,000	$200,000	**$1,600,000**
Total	**$1,200,000**	**$200,000**	**$200,000**	**$1,600,000**

Sustainable Innovation Campus - Construction (NEW)

Overview

Department	ADMINISTRATION
Estimated Start Date	07/1/2028
Estimated Completion Date	06/30/2030

Description

The Sustainable Innovation Campus will be a facility designed to showcase the future of community-powered energy. It will serve as the TCLP's administrative, operations, and public engagement center while demonstrating high standards of energy efficiency, renewable energy integration, and micro grid all through its sustainable design. The campus will function both as a practical operations hub and as an educational exhibit for customers, students, industry partners and regional stakeholders.

Details

Project Title: Sustainable Innovation Campus - Construction (NEW)

Project Owner: Brandie Ekren

Asset Category: Facilities

Asset Subcategory: Facility Improvements

Fund: Electric

Location

Property located on Cedar Run Road in Garfield Township.

Character

The Sustainable Innovation Campus will stand as a signature landmark for the community—an inviting, modern facility that blends advanced technology with the natural environment. Designed with clean lines, open spaces, and abundant natural light, the building's architecture reflects its purpose: to showcase innovation while honoring sustainability.

Constructed with low-carbon materials and high-efficiency design principles, some of the campus features may include green roofs, solar façades, and rainwater-harvesting systems that visibly demonstrate environmental stewardship. Inside, flexible research labs, collaborative workspaces, and interactive demonstration areas create a dynamic environment where engineers, students, entrepreneurs, and community partners can explore the future of clean energy together.

The campus is more than a building; it is a community asset. It will provide hands-on educational opportunities for local schools, support workforce development in emerging energy technologies, and attract regional partnerships that strengthen economic vitality. Public meeting areas and exhibit spaces will allow residents to engage directly with new technologies, learn about energy efficiency, and take part in shaping a more sustainable future.

Extent

The Sustainable Innovation Campus will span a thoughtfully planned area designed to maximize both function and community value. Encompassing renewable energy infrastructure, sustainable building and public green spaces. It will serve as a regional hub for sustainability education.

Purpose and Necessity

The Hastings Street headquarters has reached maximum operational capacity and faces substantial limitations, including yard constraints, building configuration challenges, circulation inefficiencies, and aging infrastructure.

The review identified multiple safety deficiencies across the existing facility, including compromised protective separations, egress challenges, rooftop access risks, and mechanical systems at or near end-of-life. The building has undergone an excessive number of modifications over time, creating inconsistencies that elevate operational risk and complicate compliance.

Renovation or reconstruction onsite would require extensive enabling activities, temporary relocation of critical functions, and prolonged disruption—while long-term constraints would still remain.

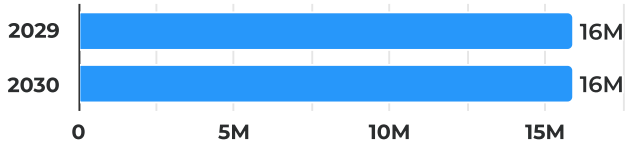
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$31.8M

Project Total
$31.8M

FY2029 - FY2030 Capital Cost Breakdown



Capital **$31,773,200** 100.00%

Capital Cost for Budgeted Years

Capital **$31,773,200** 100.00%

Detailed Breakdown

Category	FY2029	FY2030	Total
Capital	$15,886,600	$15,886,600	**$31,773,200**
Total	**$15,886,600**	**$15,886,600**	**$31,773,200**

Sustainable Innovation Campus - Owners Representative (NEW)

Overview

Department	ADMINISTRATION
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2027

Description

This is to hire consultants to help plan for future facility enhancements

Details

Project Title: Strategic Planning Consultants

Project Owner: Brandie Ekren

Asset Category: Facilities

Asset Subcategory: Facility Improvements

Fund: Electric

Location

Traverse City

Character

This planning will enhance TCLPs capabilities, customer experience, and efficiency. It will also enhance operations and services while strategically planning renewable and fully electrified future.

Extent

It will enhance the customer experience by allowing expanded services and a greater customer experience.

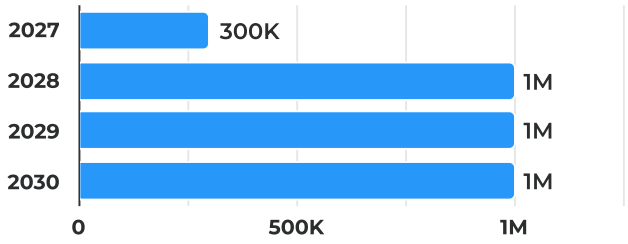
Capital Cost

FY2027 Budget
$300K

Total Budget (all years)
$3.3M

Project Total
$3.3M

FY2027 - FY2030 Capital Cost Breakdown



Capital	**$3,300,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$3,300,000**	100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	Total
Capital	$300,000	$1,000,000	$1,000,000	$1,000,000	**$3,300,000**
Total	**$300,000**	**$1,000,000**	**$1,000,000**	**$1,000,000**	**$3,300,000**

Sustainable Innovation Campus - Renewable/Battery Storage Demonstration

Overview

Department	ADMINISTRATION
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2029

Description

This is for a local solar project including a battery storage component following the implementation recommendations of the Climate Action Plan .

Details

Project Title: Renewable/Battery Storage Demonstration

Project Owner: Brandie Ekren

Asset Category: Generation

Asset Subcategory: Generation

Fund: Electric

Location

Having another local solar energy source with the addition of battery will add resiliency and additional reliability to the area.

Character

This project is utilizing a piece of TCLP owned property that can not otherwise be used because of the environmental requirements. Being able to place a solar array over the top of an ash pit is a great use for this property while providing another local clean energy source.

Extent

Still working on details of this project but we are targeting around 1.5 MW array with battery storage

Purpose and Necessity

The goal of the project would be to bring more local solar to the area with battery storage.

Alternative Solutions

Find other renewable projects at a utility scale level that are not local

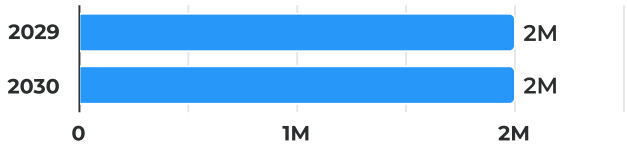
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$4M

Project Total
$4M

FY2029 - FY2030 Capital Cost Breakdown



Capital	**$4,000,000**	100.00%

Capital Cost for Budgeted Years

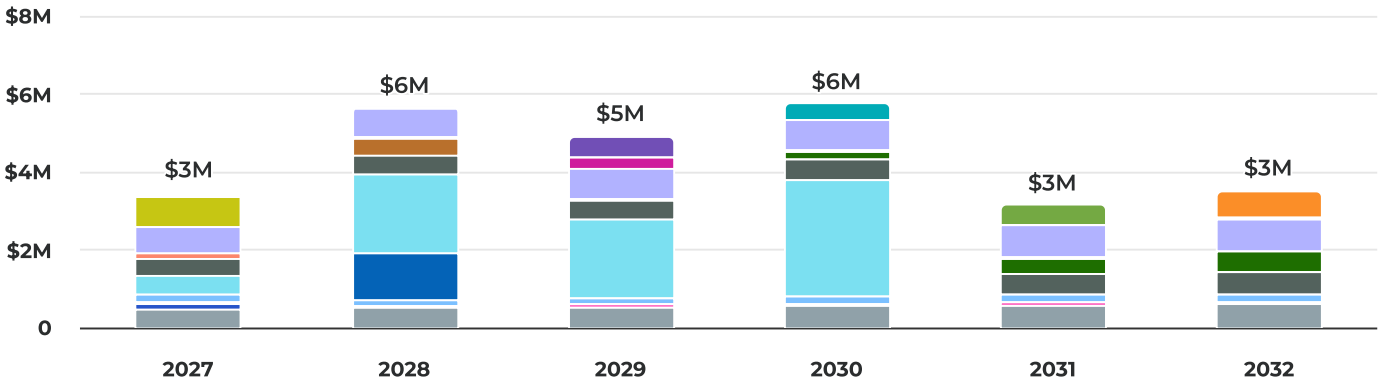
Capital	**$4,000,000**	100.00%

Detailed Breakdown

Category	FY2029	FY2030	Total
Capital	$2,000,000	$2,000,000	**$4,000,000**
Total	**$2,000,000**	**$2,000,000**	**$4,000,000**

DISTRIBUTION OPERATIONS & MAINT

FY27 - FY32 DISTRIBUTION OPERATIONS & MAINT Projects



Capital Equipment (Logistics)	**$30,000**	0.11%
HL-33 - Locust St	**$500,000**	1.89%
PC-22 - Munson, Davis to 3 Mile	**$700,000**	2.65%
SS-22 - New Circuit	**$528,400**	2.00%
Capital Equipment (Backyard Machine) (NEW)	**$80,000**	0.30%
Capital Tools	**$140,000**	0.53%
CD-24 - Pine St	**$400,000**	1.51%
Distribution Substation Relay Replacement	**$300,000**	1.14%
EV Charger Replacement (NEW)	**$750,000**	2.84%
Extensions and New Services	**$4,575,000**	17.31%
Facility Improvement Projects	**$300,000**	1.14%
Meter Procurement	**$1,152,500**	4.36%
Operational Technology Solutions	**$450,000**	1.70%
Overhead Line Improvements	**$3,075,000**	11.64%
Smart Grid Expansion	**$7,500,000**	28.38%
South Airport Road Tie	**$1,200,000**	4.54%
Street and Area Lighting Projects	**$1,020,000**	3.86%
Substation Improvement Projects	**$360,000**	1.36%
Substation Networking	**$140,000**	0.53%
Underground Line Improvements	**$3,225,000**	12.20%

Summary of Requests

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital Equipment (Logistics)	$30,000	$0	$0	$0	$0	$0	**$30,000**
HL-33 - Locust St	$0	$0	$0	$0	$500,000	$0	**$500,000**
PC-22 - Munson, Davis to 3 Mile	$0	$0	$0	$0	$0	$700,000	**$700,000**
SS-22 - New Circuit	$0	$0	$528,400	$0	$0	$0	**$528,400**

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital Equipment (Backyard Machine) (NEW)	$80,000	$0	$0	$0	$0	$0	**$80,000**
Capital Tools	$50,000	$30,000	$15,000	$15,000	$15,000	$15,000	**$140,000**
CD-24 - Pine St	$0	$0	$0	$400,000	$0	$0	**$400,000**
Distribution Substation Relay Replacement	$0	$0	$300,000	$0	$0	$0	**$300,000**
EV Charger Replacement (NEW)	$750,000	$0	$0	$0	$0	$0	**$750,000**
Extensions and New Services	$700,000	$725,000	$750,000	$775,000	$800,000	$825,000	**$4,575,000**
Facility Improvement Projects	$100,000	$50,000	$50,000	$50,000	$50,000	$0	**$300,000**
Meter Procurement	$0	$0	$0	$205,000	$410,000	$537,500	**$1,152,500**
Operational Technology Solutions	$0	$450,000	$0	$0	$0	$0	**$450,000**
Overhead Line Improvements	$450,000	$475,000	$500,000	$525,000	$550,000	$575,000	**$3,075,000**
Smart Grid Expansion	$500,000	$2,000,000	$2,000,000	$3,000,000	$0	$0	**$7,500,000**
South Airport Road Tie	$0	$1,200,000	$0	$0	$0	$0	**$1,200,000**
Street and Area Lighting Projects	$160,000	$160,000	$170,000	$170,000	$180,000	$180,000	**$1,020,000**
Substation Improvement Projects	$55,000	$55,000	$60,000	$60,000	$65,000	$65,000	**$360,000**
Substation Networking	$140,000	$0	$0	$0	$0	$0	**$140,000**
Underground Line Improvements	$475,000	$500,000	$525,000	$550,000	$575,000	$600,000	**$3,225,000**
Total Summary of Requests	**$3,490,000**	**$5,645,000**	**$4,898,400**	**$5,750,000**	**$3,145,000**	**$3,497,500**	**$26,425,900**

Capital Equipment (Logistics)

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2027

Description

The purpose of enhancing logistics operations—including installing racking in the yard, relocating wire reels into the warehouse, and acquiring equipment to safely stack inventory at higher elevations—is to improve material organization, increase storage capacity, and enhance operational efficiency. These improvements are necessary to streamline workflows, reduce handling time, improve safety, and support the growing inventory needs of the organization.

Details

Project Title: Capital Equipment

Project Owner: Karla Myers-Beman

Asset Category: Distribution

Location

Hastings Yard/Service Center

Asset Subcategory: Equipment and Tools

Fund: Electric

Character

Hastings Yard/Service Center

Extent

N/A

Purpose and Necessity

The purpose of enhancing logistics operations—including installing racking in the yard, relocating wire reels into the warehouse, and acquiring equipment to safely stack inventory at higher elevations—is to improve material organization, increase storage capacity, and enhance operational efficiency. These improvements are necessary to streamline workflows, reduce handling time, improve safety, and support the growing inventory needs of the organization.

Capital Cost

FY2027 Budget
$30K

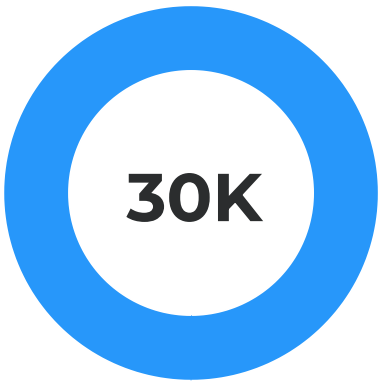
Total Budget (all years)
$30K

Project Total
$30K

FY2027 - FY2027 Capital Cost Breakdown

Capital	**$30,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$30,000**	100.00%

Detailed Breakdown

Category	FY2027	Total
Capital	$30,000	**$30,000**
Total	**$30,000**	**$30,000**

HL-33 - Locust St

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2030
Estimated Completion Date	06/30/2031

Description

Rebuild overhead line along Locust St including replacing wire with Hendrix insulated conductor. Also refeeding from other end of line to better sectionalize line.

Details

Project Title: HL-33 - Locust St

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Distribution Circuit Reliability

Fund: Electric

Location

Along Locust St from 6th St to 14th St.

Character

Replacement of conductor and select poles.

Extent

City right of way permit required. Lower profile conductor will impede buildable area less.

Purpose and Necessity

Replace end of life conductor and refeed a portion of the line for better sectionalizing.

Alternative Solutions

Leave conductor as is, chip away at project a block at a time. This would be less efficient.

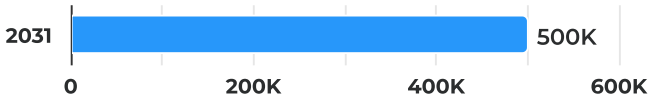
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$500K

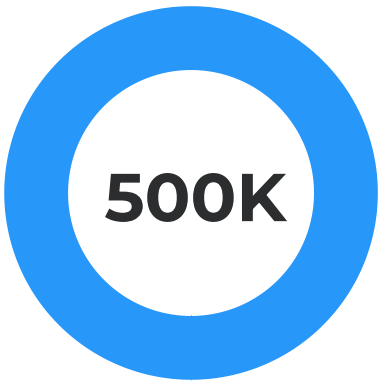
Project Total
$500K

FY2031 - FY2031 Capital Cost Breakdown



Capital	**$500,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$500,000**	100.00%

Detailed Breakdown

Category	FY2031	Total
Capital	$500,000	**$500,000**
Total	**$500,000**	**$500,000**

PC-22 - Munson, Davis to 3 Mile

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2031
Estimated Completion Date	06/30/2032

Description

Rebuilding the PC-22 circuit along Munson Ave from Davis to 3 Mile. This includes undergrounding to minimize risk of car crashes.

Details

Project Title: PC-22 - Munson, Davis to 3 Mile

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Distribution Circuit Reliability

Fund: Electric

Location

Along Munson Ave from Davis to 3 Mile.

Character

Replacement of overhead conductor and installation of new underground and padmount equipment.

Extent

Notifying MDOT of right of way construction. Lower profile wire and undergrounding will impede less on build-able area in the corridor.

Purpose and Necessity

Replace end of life conductor and remove some facilities from the MDOT right of way to limit exposure to highway traffic collisions.

Alternative Solutions

Leave line as is, slowly work at undergrounding the high impact areas. This will lead to continued higher maintenance costs and risk of eventual conductor failure requiring immediate replacement.

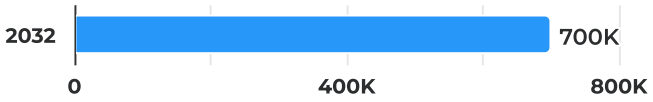
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$700K

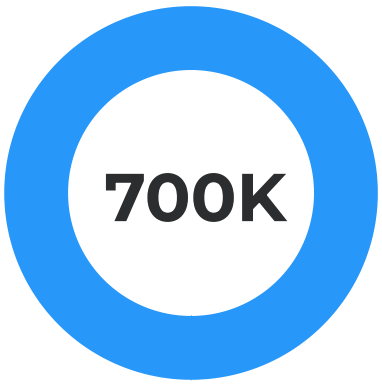
Project Total
$700K

FY2032 - FY2032 Capital Cost Breakdown



Capital	**$700,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$700,000**	100.00%

Detailed Breakdown

Category	FY2032	Total
Capital	$700,000	**$700,000**
Total	**$700,000**	**$700,000**

SS-22 - New Circuit

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2028
Estimated Completion Date	06/30/2029

Description

Install new circuit out of the South substation. This circuit will feed load along South Airport from Barlow St to 3 Mile Rd. This will allow future growth for the airport terminal and potential commercial property on Judson St, and shift load from the more heavily loaded Parsons substation to the lighter loaded South substation.

Details

Project Title: SS-22 - New Circuit

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Distribution Circuit Reliability

Fund: Electric

Location

Along LaFranier Rd from 2760 LaFranier Rd north to the South Airport Rd intersection, thence east to Garfield Rd.

Character

Addition of new set of conductors along LaFranier Rd on existing transmission and distribution line and replacement of smaller conductors along South Airport Rd on existing poles.

Extent

Will require county right of way permit. Utilizes mostly existing route and poles.

Purpose and Necessity

To allow future growth near the airport and avoid the Parsons substation becoming overloaded. This allows the existing transformers to remain in service for a longer period of time.

Alternative Solutions

In the near future we may have to replace Parsons #2 transformer (2005) with anticipated load growth at an estimated cost of ~$2 million. Under normal conditions this transformer would be replaced no sooner than 2040.

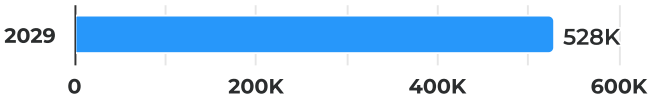
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$528K

Project Total
$528K

FY2029 - FY2029 Capital Cost Breakdown



Capital **$528,400** 100.00%

Capital Cost for Budgeted Years

Capital **$528,400** 100.00%

Detailed Breakdown

Category	FY2029	Total
Capital	$528,400	**$528,400**
Total	**$528,400**	**$528,400**

Capital Equipment (Backyard Machine) (NEW)

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2027

Description

A back yard machine is designed to access areas that traditional bucket trucks and diggers cannot reach due to narrow gates, landscaping, or soft terrain. These situations are fairly common within our service territory, particularly in neighborhoods developed in the 1950s-1970s.

Current challenges include:

- **Extended outage response times** when crews must manually carry materials, climb poles, and dig by hand.
- **Safety risks** from manual lifting, digging, and climbing poles where a back yard machine could otherwise provide access.
- **Dependence on contractors** with limited equipment availability, leaving us exposed to the risk of not having a unit available during critical times.

Details

Project Title: Capital Equipment (Backyard Machine)

Project Owner: Tony Chartrand, Andy Bott

Asset Category: Distribution

Asset Subcategory: Equipment and Tools

Fund: Electric

Location

Equipment to be used across service territory.

Character

Stored in Hastings yard.

Extent

N/A

Purpose and Necessity

Ability to not rely on other contractor's availability and be able to respond faster to events requiring this equipment as well as the below:

- **Workforce safety:**

  - Reduces manual lifting and digging in restricted areas.
  - Reduces the need for employees to climb poles in back yards when the machine can be used for bucket access.
- **System reliability:**
  - Faster outage restoration by reducing crew response time in difficult-to-reach areas.
- **Customer satisfaction:**
  - Shorter outage durations in neighborhoods where truck access is limited.
- **Operational independence and risk mitigation:**
  - Currently, we rely exclusively on contractors to provide back yard machine access. While this has worked to date, there is no guarantee a contractor's unit will always be available when needed. In the event of an equipment conflict, breakdown, or high regional demand (such as after a major storm), we could be left without access to a machine. The only alternative in such a scenario would be to secure an emergency rental, which would come at a significantly higher cost and likely cause restoration delays.

Alternative Solutions

Continue to contract out and run the risk of unavilability.

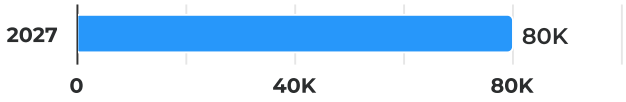
Capital Cost

FY2027 Budget
$80K

Total Budget (all years)
$80K

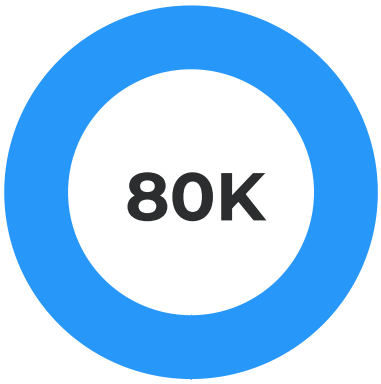
Project Total
$80K

FY2027 - FY2027 Capital Cost Breakdown



Capital **$80,000** 100.00%

Capital Cost for Budgeted Years



Capital **$80,000** 100.00%

Detailed Breakdown

Category	FY2027	Total
Capital	$80,000	**$80,000**
Total	**$80,000**	**$80,000**

Capital Tools

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2032

Description

Purchase of capital tools, typically for replacement of existing tools for line construction and maintenance; however, occasionally to provide new capabilities.

Details

Project Title: Capital Tools

Project Owner: Andy Bott

Asset Category: Distribution

Asset Subcategory: Equipment and Tools

Fund: Electric

Location

Not applicable. These will typically be stored at 1131 Hastings Yard.

Character

This is not a project, but rather purchases. These tools will be used on a multitude of projects.

Extent

This is not a project, but rather purchases. These tools will be used on a multitude of projects.

Purpose and Necessity

TCLP uses many capital tools to install, operate and maintain transmission and distribution lines. Not having the proper, reliable tools can result in project or service restoration delays, additional costs in manpower, and damage to company or customer facilities. The purpose here is to ensure that funds are earmarked for proactive replacement as well as replacement due to failure. The objective is to ensure line crews have the proper tools to do the work without failure to the best extent possible so as to avoid delays, additional manpower costs, and pressure to use other tools that are meant for the work required.

Alternative Solutions

Repair items as they break down whenever possible. This could result in project delays, service restoration delays, additional project costs, safety issues, additional O&M costs.

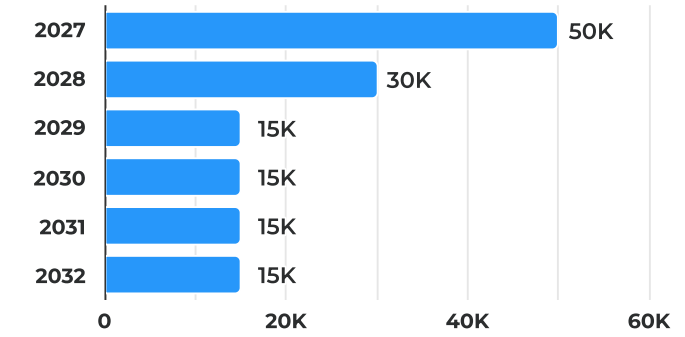
Capital Cost

FY2027 Budget
$50K

Total Budget (all years)
$140K

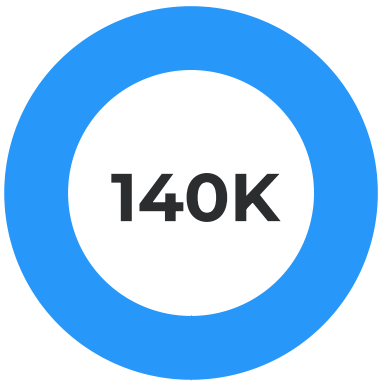
Project Total
$140K

FY2027 - FY2032 Capital Cost Breakdown



Capital **$140,000** 100.00%

Capital Cost for Budgeted Years



Capital **$140,000** 100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital	$50,000	$30,000	$15,000	$15,000	$15,000	$15,000	**$140,000**
Total	**$50,000**	**$30,000**	**$15,000**	**$15,000**	**$15,000**	**$15,000**	**$140,000**

CD-24 - Pine St

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2028
Estimated Completion Date	06/30/2030

Description

New tap from CD-24 mainline at Pine St and Griffin St to existing three phase overhead at Pine St and 14th St, and upgrading existing three phase primary from Pine St and 14th St to Boughey St from #6 copper to #1/0 Hendrix conductor.

Details

Project Title: CD-24 - Pine St

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Distribution Circuit Reliability

Fund: Electric

Location

From Pine St and Griffin St south along Pine St to the alley south of 16th St then East down said alley to Newcomb St, then South along Newcomb St. to 17th St., then East along 17th St to S Union St, then South along S Union St to Boughey St.

Character

New poles and wire to be installed to existing three phase. Replacing existing wire, and poles as necessary.

Extent

City right of way permit required. New conductor will be less susceptible to trees allowing them to grow larger, and its configuration is further away from properties allowing less property impedance.

Purpose and Necessity

The new tap will better sectionalize the line, meaning a localized outage event will affect fewer customers. This also adds capacity to the line to allow for future electrification growth.

Alternative Solutions

Install new tap and leave rest of the line as is. This will sectionalize the line better and improve capacity from what it is now, but it will still be less than with new conductor all the way through. Additional tree trimming will also be required.

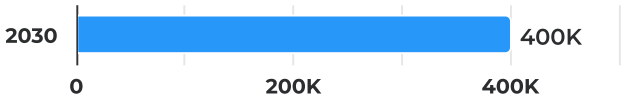
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$400K

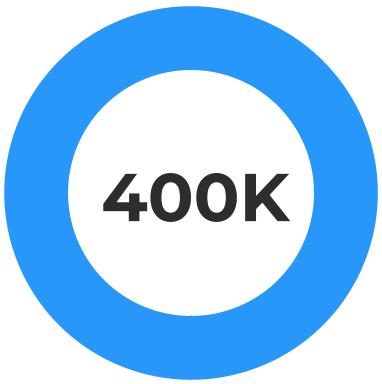
Project Total
$400K

FY2030 - FY2030 Capital Cost Breakdown



Capital	**$400,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$400,000**	100.00%

Detailed Breakdown

Category	FY2030	Total
Capital	$400,000	**$400,000**
Total	**$400,000**	**$400,000**

Distribution Substation Relay Replacement

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2028
Estimated Completion Date	06/30/2029

Description

Replacement of existing SEL 351R and 351S relays on TCLP distribution circuits with modern 651R and 851 relays. This is to proactively replace relays before failure and allow additional smart grid capabilities.

Details

Project Title: Distribution Substation Relay Replacement

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Substation Improvements

Fund: Electric

Location

Cass, Hall, and Barlow Substations

Character

Relays will be of similar size and require minimal modification to be installed in existing relay locations.

Extent

No zoning impact.

Purpose and Necessity

To gain additional smart grid capability including automatic circuit healing ability. Also to replace relays that have reached end of expected life.

Alternative Solutions

Keep relays as is. There are other smart grid technologies in existence that have add-on equipment for existing relays. These function well, but due to age the relays still have a failure risk.

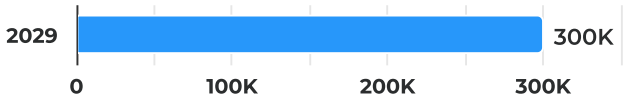
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$300K

Project Total
$300K

FY2029 - FY2029 Capital Cost Breakdown



Capital	**$300,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$300,000**	100.00%

Detailed Breakdown

Category	FY2029	Total
Capital	$300,000	**$300,000**
Total	**$300,000**	**$300,000**

EV Charger Replacement (NEW)

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2027

Details

Project Title: TC EV Expansion

Project Owner: Jacob Hardy

Asset Category: Electric Vehicle Charging Stations

Asset Subcategory: Electric Vehicle Charging Stations

Fund: Electric

Location

There are 6 locations across TC that have 4 level 2 charging ports and 1 location with 2 level 2 ports.

There are also 2 locations that have 3 DCFC stations

Character

The existing charging stations have had reliability issues as well as inconsistency on the reporting and finance side. Installing newer, well established equipment should allow greater trust in the charging network and easier reporting and administration for TCLP employees.

Purpose and Necessity

Inconstency of the existing chargers has broken the trust of EV users. Putting new equipment in that is consistent and more user friendly will help drive EV adoption and TCLPs mission and vision.

Alternative Solutions

Continue to work with the equipment and network provider we have to make the existing equipment more reliable.

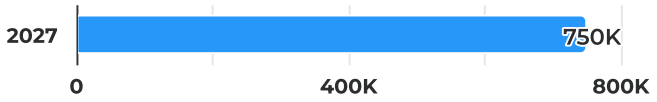
Capital Cost

FY2027 Budget
$750K

Total Budget (all years)
$750K

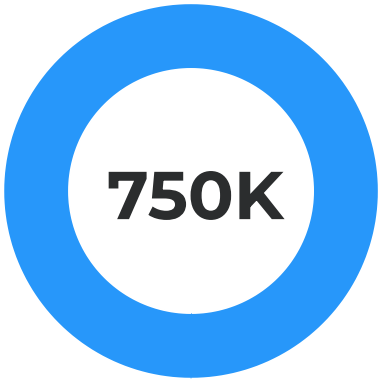
Project Total
$750K

FY2027 - FY2027 Capital Cost Breakdown



Capital	**$750,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$750,000**	100.00%

Detailed Breakdown

Category	FY2027	Total
Capital	$750,000	**$750,000**
Total	**$750,000**	**$750,000**

Extensions and New Services

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2025
Estimated Completion Date	06/30/2032

Description

Bucket of funds available to perform distribution system additions or upgrades in order to feed new load.

Details

Project Title: Extensions and New Services

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Extensions, New Services and Line Improvements

Fund: Electric

Location

Entire service territory.

Character

Overhead and underground facilities to be determined by existing facilities and developer/customer requests. Includes construction/replacement of services, wire, poles, cabinets, transformers, and meters.

Extent

Possible right of way permits.

Purpose and Necessity

To serve projected new load.

Alternative Solutions

None.

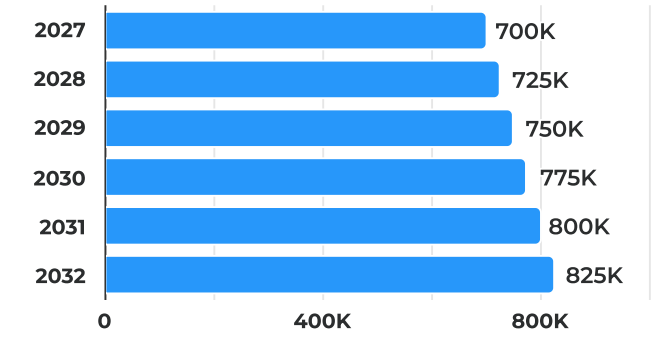
Capital Cost

FY2027 Budget
$700K

Total Budget (all years)
$4.58M

Project Total
$4.58M

FY2027 - FY2032 Capital Cost Breakdown



Capital **$4,575,000** 100.00%

Capital Cost for Budgeted Years

Capital **$4,575,000** 100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital	$700,000	$725,000	$750,000	$775,000	$800,000	$825,000	**$4,575,000**
Total	**$700,000**	**$725,000**	**$750,000**	**$775,000**	**$800,000**	**$825,000**	**$4,575,000**

Facility Improvement Projects

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2031

Description

With an aging infrastructure and all the systems (i.e. mechanical and electrical) aging as well, repairs have been on the rise. The $50,000 budgeted in the past is no longer enough to keep everything running or replaced if necessary. There is also a need for facility remodels and upgrades to provide the appropriate space needed to operate.

Details

Project Title: Facility Improvement Projects

Project Owner: Tony Chartrand

Asset Category: Facilities

Asset Subcategory: Facility Improvements

Fund: Electric

Location

Hastings service center and Hall St customer service center

Character

Unknown, most likely none

Extent

For all projects I look to see what we can do to reduce our carbon footprint and electrify.

Purpose and Necessity

To maintain facilities

Alternative Solutions

In some cases no functioning equipment, unsafe work environment, or no space for employees to work. This is evaluated on a case by case basis.

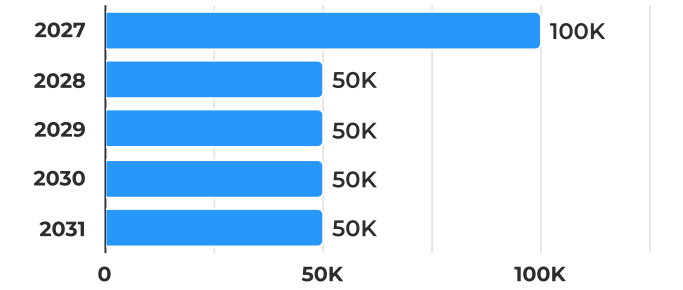
Capital Cost

FY2027 Budget
$100K

Total Budget (all years)
$300K

Project Total
$300K

FY2027 - FY2031 Capital Cost Breakdown



Capital	**$300,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$300,000**	100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	Total
Capital	$100,000	$50,000	$50,000	$50,000	$50,000	**$300,000**
Total	**$100,000**	**$50,000**	**$50,000**	**$50,000**	**$50,000**	**$300,000**

Meter Procurement

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2029
Estimated Completion Date	06/30/2032

Description

Procurement of electrical meters

Details

Project Title: Meter Procurement

Project Owner: Thomas Smith

Asset Category: Distribution

Asset Subcategory: Meters

Fund: Electric

Location

Electric Service Territory

Character

Replacement of non- working meters and installation of meters at new locations.

Extent

Annual Program

Purpose and Necessity

Monitor electric consumption and accurately bill customers.

Alternative Solutions

none

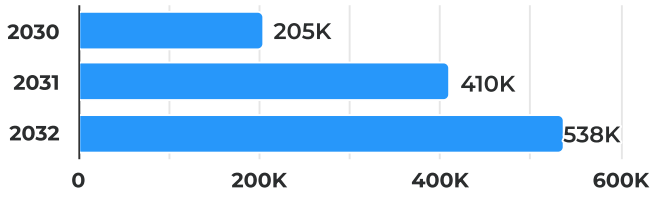
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$1.15M

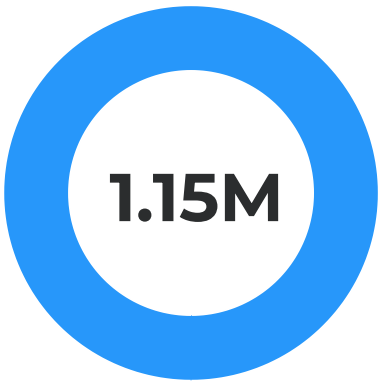
Project Total
$1.15M

FY2030 - FY2032 Capital Cost Breakdown



Capital	**$1,152,500**	100.00%

Capital Cost for Budgeted Years



Capital	**$1,152,500**	100.00%

Detailed Breakdown

Category	FY2030	FY2031	FY2032	Total
Capital	$205,000	$410,000	$537,500	**$1,152,500**
Total	**$205,000**	**$410,000**	**$537,500**	**$1,152,500**

Operational Technology Solutions

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2027
Estimated Completion Date	06/30/2028

Description

Optimization of TCLP's current OT environment and performing recommendations from external study.

Details

Project Title: Operational Technology Solutions

Project Owner: Thomas Smith

Asset Category: Distribution

Asset Subcategory: Substation Improvements

Fund: Electric

Location

TCLP Service Territory

Character

A study will commence in Q3 of FY 25/26 to evaluate the transition of TCLP's current OT solutions, updating the prior study commissioned from Power System Engineering, Inc. (PSE) with a focus on TCLP's specific needs and organizational readiness. Completion is scheduled for Q4 of FY 25/26, with results informing the next CIP planning cycle. A provisional allocation of $450K has been placed in FY 27/28 as a placeholder. If the updated study supports moving forward and the project is approved, this amount will be refined in the subsequent CIP cycle based on the updated study amounts, with execution targeted for FY 27/28.

Extent

Will upgrade technology in substations to modern solutions

Purpose and Necessity

Replace and update failing legacy hardware and software

Alternative Solutions

at a minimum, TCLP needs to upgrade substation equipment (RTACS/Switches/etc) and implement a minimized software solution to allow for critical alerts and substation equipment communications

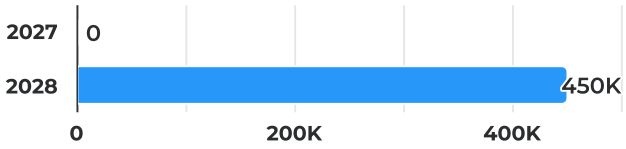
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$450K

Project Total
$450K

FY2027 - FY2028 Capital Cost Breakdown



Capital	**$450,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$450,000**	100.00%

Detailed Breakdown

Category	FY2027	FY2028	Total
Capital	$0	$450,000	**$450,000**
Total	**$0**	**$450,000**	**$450,000**

Overhead Line Improvements

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2025
Estimated Completion Date	06/30/2032

Description

Fund to perform minor upgrade and replacement projects for overhead lines.

Details

Project Title: Overhead Line Improvements

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Extensions, New Services and Line Improvements

Fund: Electric

Location

Entire service area

Character

Replacement of poles, wires, and other pole mounted equipment.

Extent

Possible new construction types which will limit impact to adjacent properties.

Purpose and Necessity

Replace end of life facilities and perform capacity upgrades as required to maintain system reliability.

Alternative Solutions

Stop replacing facilities and risk future failure. Projects are looked at on a case by case basis for other solutions allowing removal or minimization of facilities as well as converting to underground as appropriate.

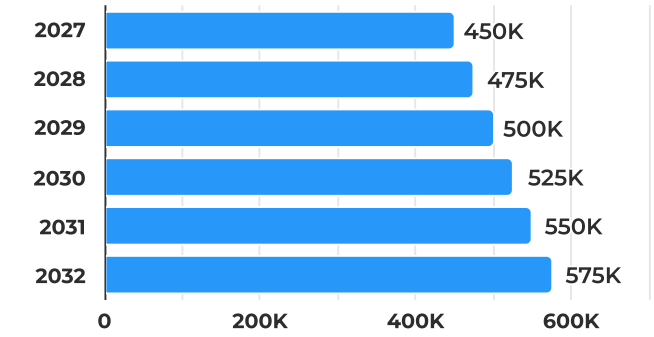
Capital Cost

FY2027 Budget
$450K

Total Budget (all years)
$3.08M

Project Total
$3.08M

FY2027 - FY2032 Capital Cost Breakdown



Capital	**$3,075,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$3,075,000**	100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital	$450,000	$475,000	$500,000	$525,000	$550,000	$575,000	**$3,075,000**
Total	**$450,000**	**$475,000**	**$500,000**	**$525,000**	**$550,000**	**$575,000**	**$3,075,000**

Smart Grid Expansion

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2030

Description

Deploy fiber across the electric service territory to establish the infrastructure necessary to support smart grid initiatives. This expansion will primarily utilize internal labor, supplemented by third-party contractors as needed. The phase will prioritize clustered areas within the service territory that are outside the City proper but within TCLP's distribution system.

Details

Project Title: Smart Grid Expansion

Asset Category: Fiber, Distribution

Asset Subcategory: Smart Grid, Distribution Circuit Reliability

Fund: Fiber

Location

TCLP service areas

Character

There will be fiber placed throughout the TCLP Distribution System.

Extent

Deploying fiber optic network throughout the TCLP Distribution System.

Purpose and Necessity

The purpose of the project is to create a Smart Grid network for a wide variety of future planned TCLP initiatives.

Alternative Solutions

None

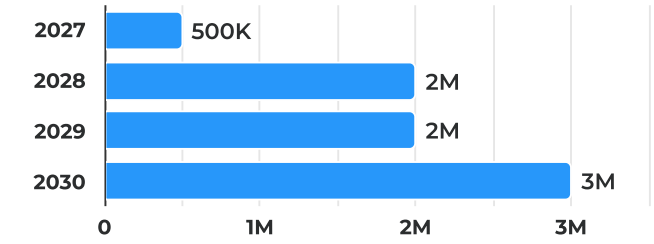
Capital Cost

FY2027 Budget
$500K

Total Budget (all years)
$7.5M

Project Total
$7.5M

FY2027 - FY2030 Capital Cost Breakdown



Capital **$7,500,000** 100.00%

Capital Cost for Budgeted Years

Capital **$7,500,000** 100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	Total
Capital	$500,000	$2,000,000	$2,000,000	$3,000,000	**$7,500,000**
Total	**$500,000**	**$2,000,000**	**$2,000,000**	**$3,000,000**	**$7,500,000**

South Airport Road Tie

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2027
Estimated Completion Date	06/30/2028

Description

Attach new lines to existing poles along the east side of Division St south of city limits to Franke Rd and upgrade existing road crossing. This will create a new loop to crea

Details

Project Title: South Airport Road Tie

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Distribution Circuit Reliability

Fund: Electric

Location

Along Division from city limits to Franke Rd, From Division along walking path/Griffen St ROW to Elmwood St ROW, along Pine St and Griffen St south to alley south of 14th, and west to Veterans and then south to 15th St.

Character

Replacement of overhead wire, installation of new overhead wire, poles, and equipment.

Extent

New overhead conductor will be lower profile affecting property along route less. Everything except the portion along Pine St will be installed along existing overhead lines.

Purpose and Necessity

Install new circuit tie to move load to a different circuit to alleviate voltage and conductor loading issues. Also creates redundancy allowing faster outage restoration and more flexibility with system switching and maintenance.

Alternative Solutions

Don't construct the tie line. Split the northern part of the circuit onto another circuit to move load away and alleviate some voltage and conductor loading concerns. Lose switching flexibility and negatively affect outage restoration times.

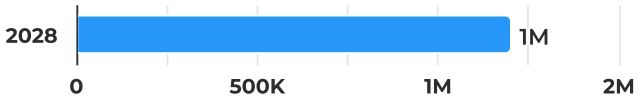
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$1.2M

Project Total
$1.2M

FY2028 - FY2028 Capital Cost Breakdown



Capital	**$1,200,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$1,200,000**	100.00%

Detailed Breakdown

Category	FY2028	Total
Capital	$1,200,000	**$1,200,000**
Total	**$1,200,000**	**$1,200,000**

Street and Area Lighting Projects

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2032

Description

Fund to perform minor upgrade and replacement projects for streetlights. The utility is undergoing a Street Lighting Plan in association with the City and Downtown Development Authority which will cover various topics including the transition the remaining high pressure sodium lights to LED.

Details

Project Title: Street and Area Lighting Projects

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Street and Area Lighting

Fund: Electric

Location

Entire service area

Character

Installation of new poles, wire, and lights, and replacement of existing lights.

Extent

Possible new lighting additions.

Purpose and Necessity

Addition of lights based on customer requests, and replacement of end of life or damaged lights.

Alternative Solutions

None, lights need to be replaced and added for public safety and customer satisfaction.

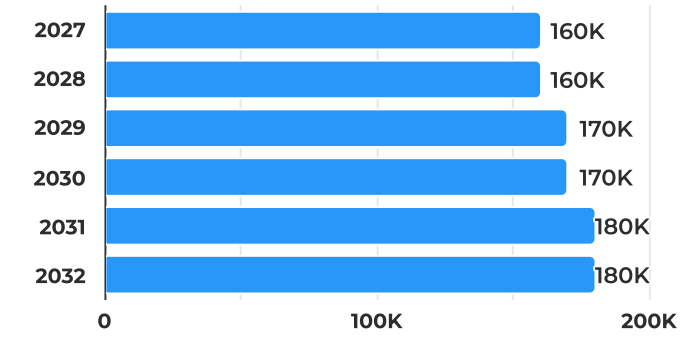
Capital Cost

FY2027 Budget
$160K

Total Budget (all years)
$1.02M

Project Total
$1.02M

FY2027 - FY2032 Capital Cost Breakdown



Capital **$1,020,000** 100.00%

Capital Cost for Budgeted Years

Capital **$1,020,000** 100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital	$160,000	$160,000	$170,000	$170,000	$180,000	$180,000	**$1,020,000**
Total	**$160,000**	**$160,000**	**$170,000**	**$170,000**	**$180,000**	**$180,000**	**$1,020,000**

Substation Improvement Projects

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2032

Description

Fund to perform substation improvements which will be capitalized. Includes replacement of minor items of low cost not worth creating a CIP project for, and minor upgrades.

Details

Project Title: Substation Improvement Projects

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Substation Improvements

Fund: Electric

Location

Entire service area.

Character

Replacement of existing and addition of minor equipment.

Extent

No appreciable affect.

Purpose and Necessity

To proactively replace equipment that has reached end of life prior to failure. Also to upgrade equipment to add functionality or reliability to the substation enhancing quality of service.

Alternative Solutions

Replace equipment when it fails, many times resulting in unplanned outages. Be less nimble with minor upgrades which may enhance quality of service or add smart features to the substation.

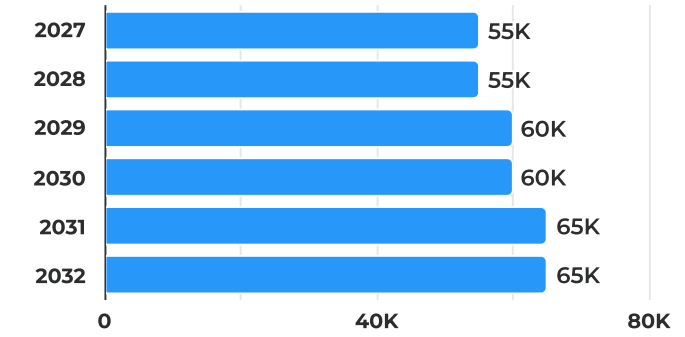
Capital Cost

FY2027 Budget
$55K

Total Budget (all years)
$360K

Project Total
$360K

FY2027 - FY2032 Capital Cost Breakdown



Capital	**$360,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$360,000**	100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital	$55,000	$55,000	$60,000	$60,000	$65,000	$65,000	**$360,000**
Total	**$55,000**	**$55,000**	**$60,000**	**$60,000**	**$65,000**	**$65,000**	**$360,000**

Substation Networking

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2027

Description

This capital project will implement a secure, high-speed communications network within and between substations to support real-time monitoring, control, and data exchange across the electric system. Substation networking is a foundational component of a modern smart grid and is necessary to ensure reliable, resilient, and efficient utility operations as system complexity and customer expectations continue to increase.

Details

Project Title: Substation Networking

Project Owner: Thomas Smith

Asset Category: Distribution

Asset Subcategory: Substation Improvements

Fund: Electric

Location

All TCLP substations

Character

There are no zoning requirements for this project

Extent

No impacts on zoning

Purpose and Necessity

This project will improve an established secure, high-speed substation communications network to support smart grid operations. The investment is necessary to improve system reliability, enable real-time monitoring and automation, reduce outage duration, and provide the infrastructure required for current and future grid technologies. It ensures the utility can operate safely, efficiently, and resiliently while meeting long-term operational, regulatory, and climate objectives.

Alternative Solutions

There are no other solutions available as this is just O&M replacement of aged substation hardware.

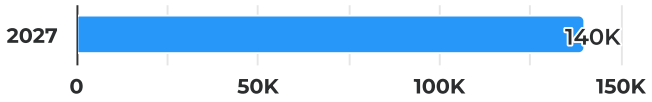
Capital Cost

FY2027 Budget
$140K

Total Budget (all years)
$140K

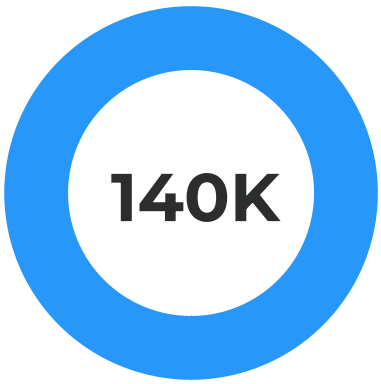
Project Total
$140K

FY2027 - FY2027 Capital Cost Breakdown



Capital	**$140,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$140,000**	100.00%

Detailed Breakdown

Category	FY2027	Total
Capital	$140,000	**$140,000**
Total	**$140,000**	**$140,000**

Underground Line Improvements

Overview

Department	DISTRIBUTION OPERATIONS & MAINT
Estimated Start Date	07/1/2025
Estimated Completion Date	06/30/2031

Description

Fund to perform minor upgrade and replacement projects for underground lines and selectively converting lines to underground.

Details

Project Title: Underground Line Improvements

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Extensions, New Services and Line Improvements

Fund: Electric

Location

Entire service area.

Character

Replacement of underground wire and equipment, new installation of conduit, wire, equipment, etc.

Extent

Underground conversions will remove overhead facilities from in and around properties.

Purpose and Necessity

Replace end of life facilities, perform capacity upgrades, and convert overhead facilities to underground as required to maintain system reliability.

Alternative Solutions

Stop replacing facilities and risk future failure. Increased outage times for overhead facilities in hard to access areas that would be converted to underground. Projects are looked at on a case by case basis for other solutions allowing removal or minimization of facilities.

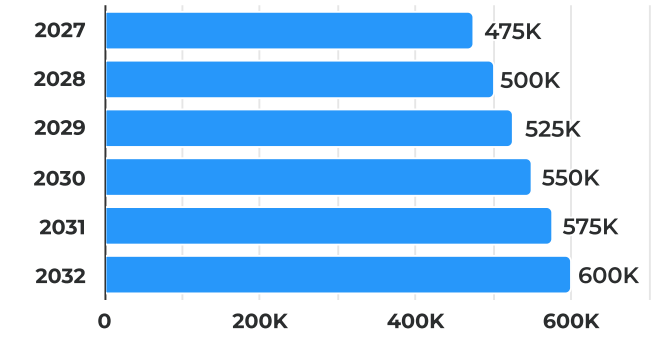
Capital Cost

FY2027 Budget
$475K

Total Budget (all years)
$3.23M

Project Total
$3.23M

FY2027 - FY2032 Capital Cost Breakdown



Capital **$3,225,000** 100.00%

Capital Cost for Budgeted Years

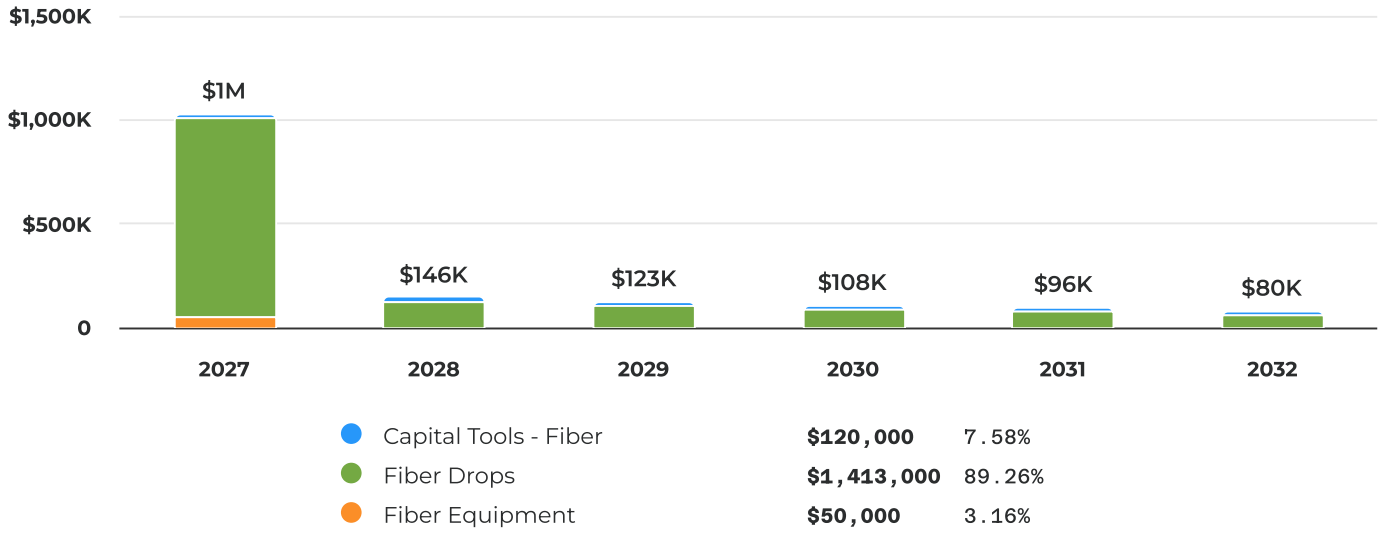
Capital **$3,225,000** 100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital	$475,000	$500,000	$525,000	$550,000	$575,000	$600,000	**$3,225,000**
Total	**$475,000**	**$500,000**	**$525,000**	**$550,000**	**$575,000**	**$600,000**	**$3,225,000**

FIBER OPTICS OPERATIONS & MAINT

FY27 - FY32 FIBER OPTICS OPERATIONS & MAINT Projects



Summary of Requests

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital Tools - Fiber	$20,000	$20,000	$20,000	$20,000	$20,000	$20,000	**$120,000**
Fiber Drops	$960,000	$126,000	$103,000	$88,000	$76,000	$60,000	**$1,413,000**
Fiber Equipment	$50,000	$0	$0	$0	$0	$0	**$50,000**
Total Summary of Requests	**$1,030,000**	**$146,000**	**$123,000**	**$108,000**	**$96,000**	**$80,000**	**$1,583,000**

Capital Tools - Fiber

Overview

Department	FIBER OPTICS OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2032

Description

Tools to perform O&M on fiber network.

Details

Project Title: Capital Tools - Fiber

Asset Category: Fiber

Asset Subcategory: Equipment and Tools

Fund: Fiber

Location

TCLP service territory

Character

tools, no impact on zoning

Extent

tools, no impact on zoning

Purpose and Necessity

Necessary tools to perform O&M on TCLPfiber

Alternative Solutions

contract solutions that have the tools

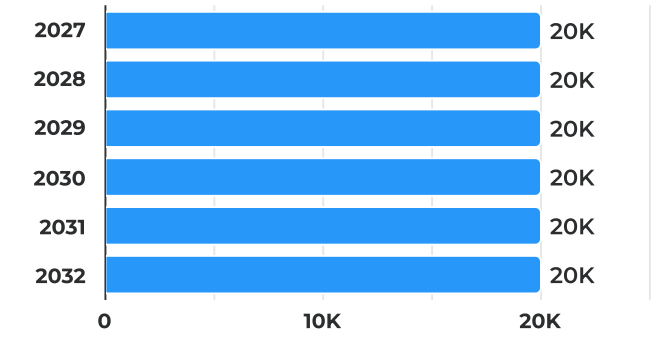
Capital Cost

FY2027 Budget
$20K

Total Budget (all years)
$120K

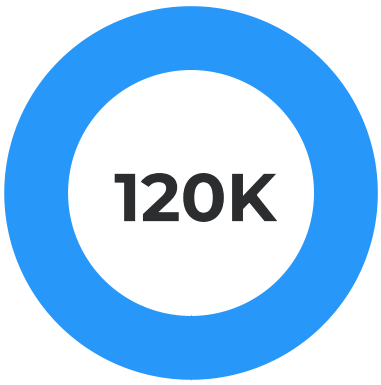
Project Total
$120K

FY2027 - FY2032 Capital Cost Breakdown



Capital	**$120,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$120,000**	100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital	$20,000	$20,000	$20,000	$20,000	$20,000	$20,000	**$120,000**
Total	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$20,000**	**$120,000**

Fiber Drops

Overview

Department	FIBER OPTICS OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2032

Description

Connect customers from the Smart Grid backbone to the network interface devices located on the customer's house/building.

Details

Project Title: Fiber Drop Costs (NEW)

Project Owner: Mark Watson

Asset Category: Fiber

Asset Subcategory: Smart Grid

Fund: Fiber

Location

Various locations within the City proper.

Character

Overhead and underground facilities to be determined by existing infrastructure and developer/customer requests.

Extent

Possible right of way permits.

Purpose and Necessity

To serve the utility rate payers with broadband services.

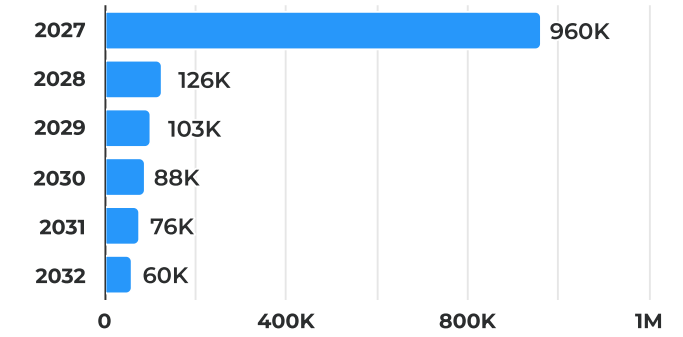
Capital Cost

FY2027 Budget
$960K

Total Budget (all years)
$1.41M

Project Total
$1.41M

FY2027 - FY2032 Capital Cost Breakdown



Capital	**$1,413,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$1,413,000**	100.00%

Detailed Breakdown

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Capital	$960,000	$126,000	$103,000	$88,000	$76,000	$60,000	**$1,413,000**
Total	**$960,000**	**$126,000**	**$103,000**	**$88,000**	**$76,000**	**$60,000**	**$1,413,000**

Fiber Equipment

Overview

Department	FIBER OPTICS OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2027

Description

Not a project, but rather equipment for fiber

Details

Project Title: Fiber Equipment

Project Owner: Mark Watson

Asset Category: Fiber

Asset Subcategory: Technology

Fund: Fiber

Location

1131 Hastings

Character

no zoning impacts

Extent

No zoning impacts

Purpose and Necessity

The goal/purpose of this is to have value set aside for equipment the fiber department may need during the startup phase of the SGFTTP project.

Alternative Solutions

None

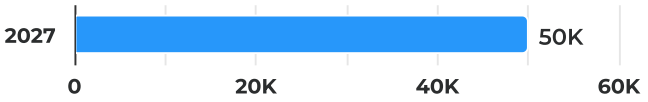
Capital Cost

FY2027 Budget
$50K

Total Budget (all years)
$50K

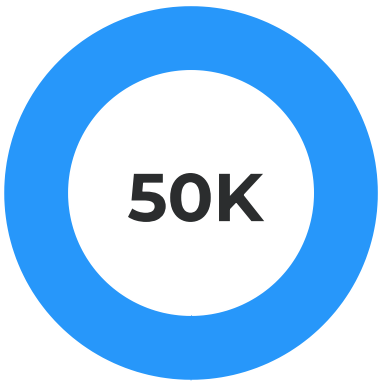
Project Total
$50K

FY2027 - FY2027 Capital Cost Breakdown



Capital	**$50,000**	100.00%

Capital Cost for Budgeted Years



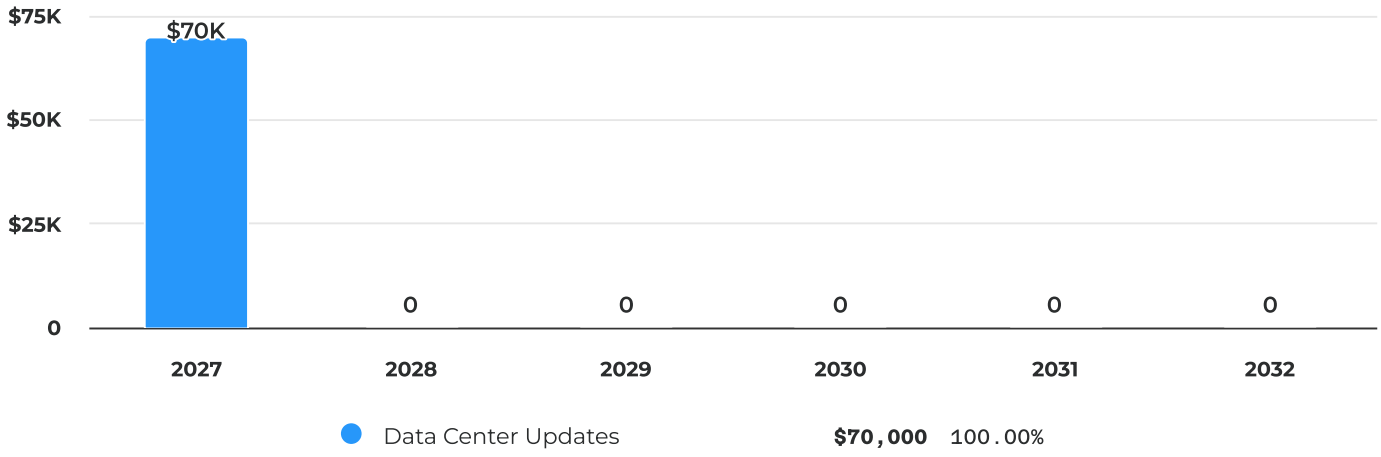
Capital	**$50,000**	100.00%

Detailed Breakdown

Category	FY2027	Total
Capital	$50,000	**$50,000**
Total	**$50,000**	**$50,000**

INFORMATION SYSTEMS

FY27 - FY32 INFORMATION SYSTEMS Projects



Summary of Requests

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Data Center Updates	$70,000	$0	$0	$0	$0	$0	**$70,000**
Total Summary of Requests	**$70,000**	**$0**	**$0**	**$0**	**$0**	**$0**	**$70,000**

Data Center Updates

Overview

Department	INFORMATION SYSTEMS
Estimated Start Date	07/1/2029
Estimated Completion Date	06/30/2030

Description

Add data hard drives to the data centers for resilience to the network and minimize disruption.

Details

Project Title: Data Center Updates

Project Owner: Thomas Smith

Asset Category: Facilities, Generation

Asset Subcategory: Technology

Fund: Electric

Location

TCLP Data Centers

Character

Not applicable

Extent

Not applicable

Purpose and Necessity

Necessary to ensure resilient operations.

Alternative Solutions

None

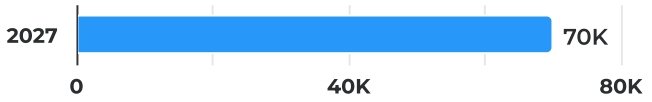
Capital Cost

FY2027 Budget
$70K

Total Budget (all years)
$70K

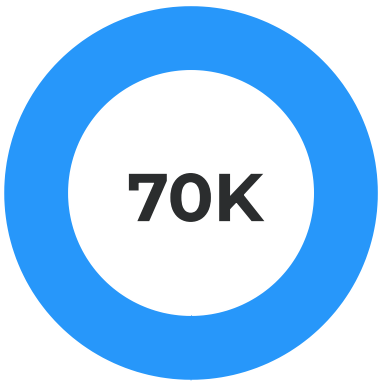
Project Total
$70K

FY2027 - FY2027 Capital Cost Breakdown



Capital **$70,000** 100.00%

Capital Cost for Budgeted Years



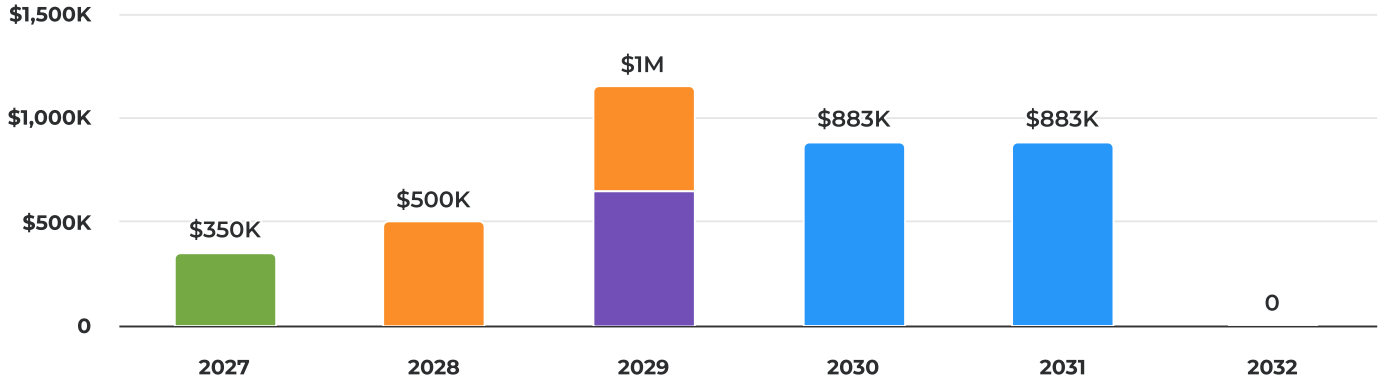
Capital **$70,000** 100.00%

Detailed Breakdown

Category	FY2027	Total
Capital	$70,000	**$70,000**
Total	**$70,000**	**$70,000**

TRANSMISSION OPERATIONS & MAINT

FY27 - FY32 TRANSMISSION OPERATIONS & MAINT Projects



Cass Road Substation to Cass Junction	**$1,766,400**	46.90%
Grand Traverse 138kV Line Rebuild (NEW)	**$350,000**	9.29%
Grand Traverse Substation Equipment Replacement (NEW)	**$1,000,000**	26.55%
Transmission Substation Relay Replacement	**$650,000**	17.26%

Summary of Requests

Category	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	Total
Cass Road Substation to Cass Junction	$0	$0	$0	$883,200	$883,200	$0	**$1,766,400**
Grand Traverse 138kV Line Rebuild (NEW)	$350,000	$0	$0	$0	$0	$0	**$350,000**
Grand Traverse Substation Equipment Replacement (NEW)	$0	$500,000	$500,000	$0	$0	$0	**$1,000,000**
Transmission Substation Relay Replacement	$0	$0	$650,000	$0	$0	$0	**$650,000**
Total Summary of Requests	**$350,000**	**$500,000**	**$1,150,000**	**$883,200**	**$883,200**	**$0**	**$3,766,400**

Cass Road Substation to Cass Junction

Overview

Department	TRANSMISSION OPERATIONS & MAINT
Estimated Start Date	07/1/2029
Estimated Completion Date	06/30/2031

Description

Rebuilding of the transmission line including pole replacement and conductor change from 477 ACSR to 795 ACSS. This addresses age and future capacity limitations of the line. Possibly move center line from west side of Cass north of 17th to align with distribution circuits on east side of road.

Details

Project Title: Cass Road Substation to Cass Junction

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Transmission Line Improvements

Fund: Electric

Location

Along Sybrandt Rd and Cass St from Cass Substation on Sybrandt Rd to the alley north of 12th St.

Character

The line will be taller and better designed to minimize tree disturbance. Allowing trees to grow larger and minimizing impact on the build-ability of properties along the line.

Extent

Will require city right of way permit.

Purpose and Necessity

Upgraded conductor will allow more capacity to supply for future growth and switching operations. Proactive replacement of old poles which are too large for TCLP equipment to maintain. New design to minimize tree disturbances.

Alternative Solutions

Don't rebuild the line and operate as is. This would limit switching flexibility and lead to higher maintenance costs.

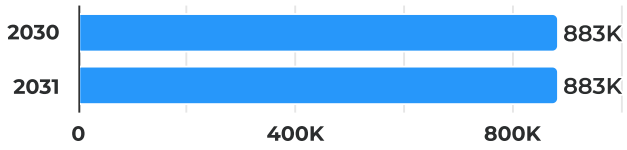
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$1.77M

Project Total
$1.77M

FY2030 - FY2031 Capital Cost Breakdown



Capital	**$1,766,400**	100.00%

Capital Cost for Budgeted Years

Capital	**$1,766,400**	100.00%

Detailed Breakdown

Category	FY2030	FY2031	Total
Capital	$883,200	$883,200	**$1,766,400**
Total	**$883,200**	**$883,200**	**$1,766,400**

Grand Traverse 138kV Line Rebuild (NEW)

Overview

Department	TRANSMISSION OPERATIONS & MAINT
Estimated Start Date	07/1/2026
Estimated Completion Date	06/30/2027

Description

Rebuilding approximately 0.33 miles of 138kV transmission line from interconnection with ITC to the Grand Traverse substation. This line was originally built in the 1970s, and is the current bottleneck for capacity to the Grand Traverse substation. This line is one of the main feeds into the TCLP system and its reliable operation is essential to the overall reliability of TCLP's system as well as the greater electrical grid. This will be a joint project with Wolverine Power Cooperative who co-own the line with TCLP.

Details

Project Title: Grand Traverse 138kV Line Rebuild

Project Owner: Tony Chartrand

Asset Category: Joint Project

Asset Subcategory: Transmission Line Improvements

Fund: Electric

Location

Rebuilding will take place in the same location.

Character

The existing line's character will remain unchanged as it occupies the same area and is shielded from view by a tree buffer.

Extent

The extent is the same as the existing line.

Purpose and Necessity

The purpose is to replace the conductor to increase capacity of the line, replace aged poles, and utilize more permanent steel poles to increase the line's lifespan. This is necessary to ensure continued power delivery to TCLP's distribution system.

Alternative Solutions

There are no alternatives to rebuilding the line.

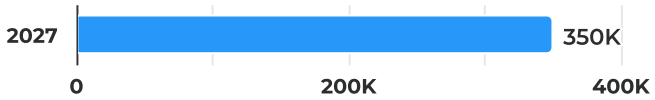
Capital Cost

FY2027 Budget
$350K

Total Budget (all years)
$350K

Project Total
$350K

FY2027 - FY2027 Capital Cost Breakdown



Capital	**$350,000**	100.00%

Capital Cost for Budgeted Years

Capital	**$350,000**	100.00%

Detailed Breakdown

Category	FY2027	Total
Capital	$350,000	**$350,000**
Total	**$350,000**	**$350,000**

Grand Traverse Substation Equipment Replacement (NEW)

Overview

Department	TRANSMISSION OPERATIONS & MAINT
Estimated Start Date	07/1/2027
Estimated Completion Date	06/30/2029

Description

Replacement of breakers, switching, potential transformers, and other equipment in the substation. These pieces of equipment have reached end of life and require replacement in order to maintain reliable operation of the substation.

Details

Project Title: Grand Traverse Substation Equipment Replacment

Project Owner: Tony Chartrand

Asset Category: Joint Project

Asset Subcategory: Substation Improvements

Fund: Electric

Location

The location is inside the existing substation, there will be no visible changes from the road due to the dense tree median between the substation and the road.

Character

The character remains unchanged as the equipment is being replaced like for like.

Extent

The extent remains unchanged from the existing station.

Purpose and Necessity

The purpose of this project is to proactively replace equipment to ensure the reliable operation of the substation. This equipment has exceeded expected life and is due for replacement.

Alternative Solutions

There are no alternative solutions.

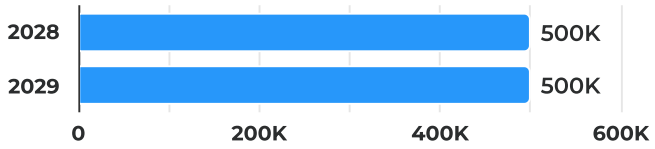
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$1M

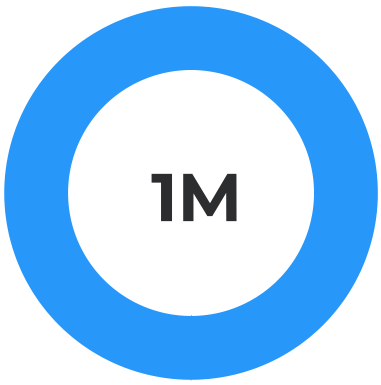
Project Total
$1M

FY2028 - FY2029 Capital Cost Breakdown



Capital	**$1,000,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$1,000,000**	100.00%

Detailed Breakdown

Category	FY2028	FY2029	Total
Capital	$500,000	$500,000	**$1,000,000**
Total	**$500,000**	**$500,000**	**$1,000,000**

Transmission Substation Relay Replacement

Overview

Department	TRANSMISSION OPERATIONS & MAINT
Estimated Start Date	07/1/2028
Estimated Completion Date	06/30/2029

Description

Replace 311B and 311C relays in Grand Traverse, South, Barlow, Parsons, and East Hammond substations with 311L and T401L relays, and complete transmission fiber interconnection between substations to facilitate direct relay communication.

Details

Project Title: Transmission Substation Relay Replacement

Project Owner: Tony Chartrand

Asset Category: Distribution

Asset Subcategory: Substation Improvements

Fund: Electric

Location

Grand Traverse, South, Barlow, Parsons, and East Hammond substations

Character

Relays will be installed inside existing control houses.

Extent

No impact to zoning.

Purpose and Necessity

To use a superior protection scheme for the transmission lines allowing for faster line clearing. This will lead to less thermal damage on the transmission lines. The T401L is a time domain relay which is currently the cutting edge of transmission line protection.

Alternative Solutions

Leave existing relays. The current protection system functions, and the affected relays are not end of life currently.

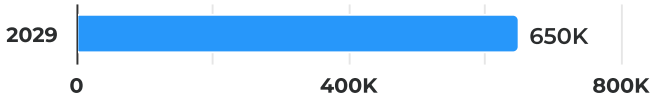
Capital Cost

FY2027 Budget
$0

Total Budget (all years)
$650K

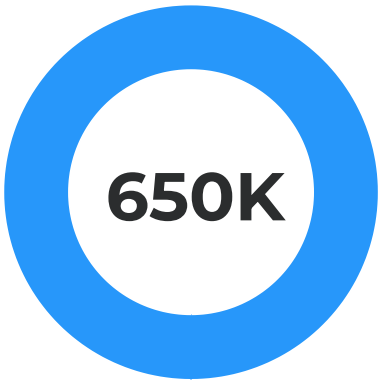
Project Total
$650K

FY2029 - FY2029 Capital Cost Breakdown



Capital	**$650,000**	100.00%

Capital Cost for Budgeted Years



Capital	**$650,000**	100.00%

Detailed Breakdown

Category	FY2029	Total
Capital	$650,000	**$650,000**
Total	**$650,000**	**$650,000**