

Budget components (2022 and final 2021) and City Plans and Actions Relevant to an Energy and Environmental Resolution for Sustainability and Climate Change Resiliency

A. 2022 Budget - Operations

Section/CIP (Page #)	Text
Facilities Maintenance Business Plan (65)	Short-term goals: Energy efficiency and cost savings for buildings
Public Works Dept Business Plan: Compost Facility (77)	Long-term goals: <ul style="list-style-type: none"> • Market compost products as a reliable and low-cost alternative to private distributors • Develop new customers and expand farm usage [of compost materials]
Public Works Dept Business pPlan: Clean Water Division (80)	Short-term goals: <ul style="list-style-type: none"> • Expand native area management acres into roadside ditches, open spaces, and expand greenway connections • Implement a targeted education campaign for property owners along streams and drainage easements to aid in stream corridor preservation • In conjunction with local partners, continue to refine the microbial source tracking program to identify and eliminate e-coli sources in streams Long-term goals: <ul style="list-style-type: none"> • Collect data in conjunction with the Partners of Scott County Watersheds and volunteers to evaluate trend lines that will indicate levels of water quality improvement and bacteria removal • Implement management practices and educational programs to systematically remove impaired streams within the city from the State Impaired Waters List by utilizing existing studies and education partners • Complete development of the city-wide comprehensive stormwater management plan and watershed assessment by the end of 2022 • Cultivate normative social values regarding healthy stormwater quality and quantity management and the components of ecological function within an urban setting through increases in media coverage Program Description: The mission of the Clean Water Management Division is to <i>improve water quality and flood protection</i> through the construction and maintenance of the public stormwater system and <i>the preservation and restoration of Davenport watersheds</i> .
Public Works Dept Business Plan: Solid Waste Collection (87-89)	Core services: Provide a means for disposal of treated wastewater bio-solids and yard and garden trimmings Semi-core services: <ul style="list-style-type: none"> • Electronic waste collection for diversion to the recycling program • Composting all yard wate materials at the Davenport compost facility and recycling service to city facilities • Public education Long-term goals: <ul style="list-style-type: none"> • Educate residents about recycling to increase the amount of materials recycled and diverted from the landfill

	<ul style="list-style-type: none"> Divert more materials such as electronics, yard waste, and recycling from the landfill Provide education and enforcement to ensure residents obtain the best use of all the solid waste system
Public Works Dept Business Plan: Fleet Maintenance (95)	<p>Long-term goals:</p> <ul style="list-style-type: none"> Reduce fuel consumption with hybrid/electric vehicles Analyze fleet to right-size vehicles to match the operational need of the city
Public Works Dept Business Plan: Transit (Citi-bus) (99-100)	<p>Long-term goals: Continue to coordinate with the City of Bettendorf and MetroLINK to achieve a regional approach to public transportation</p> <p>Program description: Transportation options are extended by providing Bik n' Bus options on every vehicle in the fleet as well as connections with Bettendorf Transit and MetroLINK Transit systems</p>
Public Works Department Business Plan: Traffic Engineering (101-102)	<p>Key performance indicators: Due to budget constraints, the ability to find funds from sources is more critical than ever. Various sources are for <i>clean air attainment</i>, traffic safety, and upgrades of signal equipment along State routes.</p> <p>Short-term goals: Write a traffic-calming policy for City Council consideration</p>
Public Works Dept Business Plan: Public Works Services & Operations (113)	<p>Long-term goals: Enhance mitigation, climate adaptation, resiliency, and emergency management plans and procedures in coordination with external departments and agencies</p>

B. 2022 Budget: CIP

Section/CIP (page #)	Text
GG005: General Government (120)	Reforestation Program: replanting the city's urban forest
PT003: Pedestrian Transportation (153)	Recreational Path Reconstruction Program: resurfacing, repair, and upgrade city's trail system
PT005: Pedestrian Transportation (155)	Routine maintenance of pike paths, trail and pedestrian ways
PT006: Pedestrian Transportation (156)	Pedestrian transportation: West Loop Project Construct a 10-foot concrete path extending Duck Creek path from Emeis Park and continue it south to Locust Street and west to Wisconsin Ave, ultimately connecting Duck Creek Trail to the Riverfront Trail
PT007: Pedestrian Transportation (157)	Pedestrian transportation: Construct underpass below Division St bridge for Duck creek Trail for pedestrians
PT008: Pedestrian Transportation (158)	Recreational trail to Eldridge: Design a 1.8 mile trail segment from Vets Mem Parkway north to the city's limit at 90 th St.
RF001: Riverfront (171)	Riverfront Flood Resiliency Program: providing funding to begin implementation of findings from the Flood Resiliency Study
SW003: Stormwater (195)	Public/private cost share stormwater BMPs: Watershed-specific cost share programs (residential/commercial) to install SW BMPs – Infiltrating, treating and attenuating rainfall and runoff on a watershed-scale will serve to improve creek stabilization, water quality, and overall watershed health
SW004: Stormwater (196)	Contract stream repair: annual program to repair small failed streambank sites

SW005: Stormwater (197)	Nahant Marsh grant support: Acquire and restore wetlands, improve public access and creational opportunities; connect Nahant Marsh with the Mississippi River Trail
SW014: Stormwater (206)	In conjunction with P&R Master Plan update, fund a comprehensive system-wide assessment on the various city watersheds, streams, greenway corridors, and localized flooding potential; part of a DNR permit requirement
SW015: Stormwater (207)	Oxbow reconstruction on Duck Creek west of Fairmount St: flood attenuation, water quality improvements, and habitat improvements
SW016: Stormwater (208)	Stream stabilization program: reducing erosion and headcutting on larger streams through stabilization projects
TE002: Traffic Engineering (217)	Add traffic calming measures on residential streets with speeding and safety problems

C. 2021 Budget: - Operations

Section (page #)	Text
Public Works Department 2021 Business Plan: Water Pollution Control Div (67)	<p>Program description: The Water Pollution Control Plant provides wastewater treatment to protect the health and welfare of people, property, and <i>the environment</i>....the basic treatment is to remove solids from the wastewater and treat them anaerobically in digesters to produce methane gas. <i>The gas is then used to produce electricity for use in the plant.</i> A biosolids product, greatly reduce in pathogens, is produced by the digesters. <i>These solids are composted, which produces an environmentally safe and beneficial product.</i></p> <p>Semi-core services; Promote the beneficial use of bio-solids in compost and the conversion of methane to electrical power.</p> <p>Key performance indicators: The treatment plant’s effluent biochemical oxygen demand (BOD) concentration limit...goals are to be at least 32% under the discharge limit. <i>Higher levels than the effluent limits can be harmful to aquatic life in the Mississippi River, as the BOD depletes oxygen in the river.</i></p>
Public Works Department 2021 Business Plan: Compost Facility (69-71)	<p>Program description: The Compost Facility provides a safe and environmentally acceptable option for yard waste and tree trimmings generated within the Scott County Solid Waste Commission service and for bio-solids produced at the Water Pollution Control Plant through the production of compost for commercial and residential uses. The facility removes in excess of 120,000 cubic yards of material from the solid waste program annually. The composting process converts these materials into various environmentally beneficially products. These products are sold to commercial and residential customers, effectively reducing the total cost of the program.</p> <p>Core Services: Provide a means of disposal for treated waste-water biosolids and yard and garden trimmings</p> <p>Long-term goals:</p> <ul style="list-style-type: none"> • Market compost products as a reliable and low-cost alternative to private distributors • Develop new customers and expand farm usage
Public Works Department 2021 Business Plan: Clean Water Management (72-73)	<p>Semi-core services:</p> <ul style="list-style-type: none"> • Design and installation of stormwater BMPs, public education and outreach programs, and public participation and involvement programs

	<ul style="list-style-type: none"> • Pollution prevention/good housekeeping measures, including street sweeping, local water quality initiatives, local flood prevention, and local stream assessment and maintenance. • Create and participate in opportunities for watershed improvement and land management techniques that improve our water sources. <p>Key performance indicators: millions of gallons of stormwater treatment: This measure indicates the number of millions of gallons treated to remove nitrogen, phosphorus, and total suspended solids from Davenport waterways, which improves water quality.</p> <p>Short-term goals:</p> <ul style="list-style-type: none"> • Expand native area management acres into roadside ditches, open spaces, and expand greenway connections • Implement a targeted education campaign for property owners along streams and drainage easements to aid in stream corridor preservation • In conjunction with local partners, continue to refine the microbial source tracking program to identify and eliminate e-coli sources in streams <p>Long-term goals:</p> <ul style="list-style-type: none"> • Collect data in conjunction with the Partners of Scott County Watersheds and volunteers to evaluate trend lines that will indicate levels of water quality improvement and bacteria removal • Implement management practices and educational programs to systematically remove impaired streams within the city from the State Impaired Waters List by utilizing existing studies and education partners • Complete development of the city-wide comprehensive stormwater management plan and watershed assessment by the end of 2022 • Cultivate normative social values regarding healthy stormwater quality and quantity management and the components of ecological function within an urban setting through increases in media coverage <p>Program Description: The mission of the Clean Water Management Division is to <i>improve water quality and flood protection</i> through the construction and maintenance of the public stormwater system and <i>the preservation and restoration of Davenport watersheds</i>.</p>
Public Works: Forestry (77)	Program description: The Forestry Division manages Davenport’s urban forest, maintaining approximately 20,000 street trees and over 2,000 acres of forested park lands to provide a safe and healthy urban forest
Public Works Dept: Solid Waste (83)	Long-term goals: Divert more materials such as electronics, yard waste, and recycling from the landfill
Public Works 2021 Business Plan: Sanitary Sewer (85)	Objective: To operate and maintain the wastewater and stormwater collection systems in order to minimize or eliminate the potential for health hazards, <i>environmental impacts</i> or property damage
Public Works 2021 Business Plan: Fleet Management (89)	<p>Long-term goals:</p> <ul style="list-style-type: none"> • Reduce fuel consumption with hybrid/electric vehicles • Analyze fleet to right-size vehicles to match the operational need of the city
Public Works 2021 Business Plan: Citibus (92)	<ul style="list-style-type: none"> • Continue to coordinate with the City of Bettendorf and MetroLINK to achieve a regional approach to public transportation

Public Works 2021 Business Plan: Traffic Engineering (95)	Short-term goals: Write a traffic-calming policy for City Council consideration
Public Works 2021 Business Plan: Support Services (105)	Long-term goals: Enhance mitigation, climate adaptation, resiliency, and emergency management plans in coordination with external departments and agencies

D. 2021 Budget: CIP

Section/CIP (page #)	Text
GG008: General Government (142)	Reforestation Program: replanting the city's urban forest
BR001: Bridges (47)	Repair of trail and pedestrian bridges
PT008: Pedestrian Transportation (169)	Recreational Path Reconstruction Program: resurfacing, repair, and upgrade city's trail system
PT006: Pedestrian Transportation (167)	Routine maintenance of pike paths, trail and pedestrian ways
PT009: Pedestrian Transportation (170)	West Loop Project Construct a 10-foot concrete path extending Duck Creek path from Emeis Park and continue it south to Locust Street and west to Wisconsin Ave, ultimately connecting Duck Creek Trail to the Riverfront Trail
PT008: Pedestrian Transportation (158)	Recreational trail to Eldridge: Design a 1.8 mile trail segment from Vets Mem Parkway north to the city's limit at 90 th St.
SW005: Stormwater (210)	Public/private cost share stormwater BMPs: Watershed-specific cost share programs (residential/commercial) to install SW BMPs – Infiltrating, treating and attenuating rainfall and runoff on a watershed-scale will serve to improve creek stabilization, water quality, and overall watershed health
SW017: Stormwater (217)	Permeable alley assessment partnership, for installing permeable materials during alley reconstruction
SW025: Stormwater (220)	Red Hawk GC ditch to bioswale conversion
SW004: Stormwater (196)	Contract stream repair: annual program to repair small failed streambank sites
SW015: Stormwater (216)	In conjunction with P&R Master Plan update, fund a comprehensive system-wide assessment on the various city watersheds, streams, greenway corridors, and localized flooding potential; part of a DNR permit requirement
SW034: Stormwater (225)	Stream stabilization program: reducing erosion and headcutting on larger streams through stabilization projects
WP005: WPCP (247)	Nutrient reduction study and improvement for reducing nitrogen and phosphorus discharged into surface waters; NPDES permit; submit no later than July 2022

E. Actions by PW for energy conservation and environmental improvement (climate adaptation and sustainability) (PW compilation)

a. City Plans that Support Sustainable Communities

1. Davenport 2025 Comprehensive Plan which provides guidelines on land use, infrastructure, use of brownfields, aesthetics, environment, and community facilities, including guidelines that enhance, protect, and preserve natural and built environments.
2. DavenportGO plan, a multi-modal transportation for improving mobility options not using fossil fuels
3. Cooperating with the Scott County Hazard Mitigation Plan
4. Bi-State Regional Commissions Clean Air Partnership
5. Tree City USA,
6. American Public Works Association Accreditation
7. Accreditation by Commission for Accreditation of Park and Recreation Agencies
8. Compliance with National Pollution Discharge Elimination System (NPDES) permits for point-source discharge of effluents into surface waters
9. Member of Global Compact of Mayors
10. Parks & Recreation comprehensive plan underway
11. Riverfront Flood Study underway
12. First Floor Elevation Study underway
13. Watershed Comprehensive Plan in stormwater budget

b. City Operations

1. DPD building and Eastern Library are LEED certified, and use geothermal heat
2. Fleet:
 - a. Regular maintenance of city fleet (>1600 vehicles) to lower emissions,
 - b. 11 hybrid vehicles and several lower emission diesel buses;
 - c. currently evaluating alternative fuel buses;
 - d. electric car charging infrastructure at City Hall;
 - e. 15% biodiesel use between April and October (before weather gets cold);
 - f. Older diesel engines are retrofitted when opportunity exists to reduce emissions;
 - g. hybrids and electric vehicles are selected and purchased when the opportunity exists
 - h. All city staff receive defensive driving training at least once/5 years, including driving practices that reduce emissions and fuel use
 - i. Police vehicles equipped with battery tenders that allow police vehicle to be automatically turned off /on (versus idling) to keep electrical equipment charged
3. As traditional lights failing (including street lights and traffic signals) are replaced with LED bulbs and energy-efficient lamps/fixtures
4. Computers, copiers, printers go into sleep mode when not in use
5. Transportation strategies like roundabouts, synchronized signals, DavenportGO, pedestrian signals, bike racks at city facilities
6. Completion of Augustana College energy and emissions inventory of city facilities and fleet, as benchmark for identifying strategies for decreasing energy use and GHG emissions; analysis should be available spring 2021
7. NFIP CRS program, with constant improvements for reducing flood insurance premiums by improving communication and resilience/adaptation to flooding
8. Use of E-commerce to reduce use of paper
9. Partnership with /funds/support to NGOs and environmental agencies to promote environmental stewardship, education, assistance, and sustainability efforts, along with opportunities for public involvement
10. Encodement and enforcement of stormwater and floodplain management regulations

11. Healthy urban forest
12. Duplex printing, and paper with >30% recycled material
13. All employees encouraged to turn off lights, and occupancy sensors installed
14. During occupied hours, all buildings with Direct Digital Controls for HVAC (PW, City Hall, Main Library) are programmed for seasonal energy savings
15. Many of city facilities have white roofing materials, which will continue to be considered to reduce cooling costs
16. Reduced mowing and no-mow areas are established as opportunity exists; native landscaping is used and stormwater BMPs are incorporated on city properties as opportunity and funding is available
17. Recycling: Paper, toner, ink, containers throughout city buildings; unneeded equipment and materials with value are auctioned for reuse
18. Buildings and equipment are regularly inspected and repaired/replaced as needed for conserving energy and water

c. City Support of Private Sector

1. Recycling services/opportunities, alternative transportation options (transit, bike lanes/paths)
2. During and after school youth programming and education
3. City-Private cost share on stormwater management BMPs