



Evansville
WATER AND SEWER UTILITY

Contractor Outreach

FEBRUARY 8, 2018

Agenda

- ▶ Welcome and History of Evansville Water & Sewer Utility
- ▶ Introductions
- ▶ REFRESH Evansville
- ▶ Non-REFRESH Projects
- ▶ RENEW Evansville
- ▶ Non-IOCP Projects
- ▶ M/WBE Program Overview
- ▶ Purchasing and Local Requirements
- ▶ Open Question and Answer

Welcome and History of Evansville Water & Sewer Utility

OUR MISSION

The Evansville Water & Sewer Utility will provide the Evansville metro area with high quality, safe, dependable water and sewer service at rates which encourage economic development. The Utility will manage land and water resources to ensure quality for future generations.

Welcome and History of Evansville Water & Sewer Utility

ASSETS

- ▶ 60 MGD Water Treatment Plant serving 60,000 customers
- ▶ 1,000 miles of water main; 6,000 fire hydrants; 7 booster stations; 8 storage tanks
- ▶ 60% cast iron pipes with an average age of over 90 years
- ▶ 504 miles of sanitary sewer; 318 miles of combined sewer; 92 lift stations
- ▶ 18 MGD east & 21.7 MGD west wastewater treatment plants

Introductions

- ▶ **Evansville Water & Sewer Utility**
 - ▶ Allen Mounts - Director
 - ▶ Mike Labitzke - Deputy Director of Program Management Office
 - ▶ J.D. Sloan - Deputy Director of Engineering Services
 - ▶ Daniel Claspell - Deputy Director of CS, DP, and AMR
 - ▶ Ed Ziemer - Deputy Director of Utilities - Operations
 - ▶ Cris Cottom - Water Capital Projects Manager
 - ▶ Matt Montgomery - Sewer Capital Projects Manager
 - ▶ Pat Keepes - Water Superintendent
 - ▶ Harry Lawson - Wastewater Superintendent
 - ▶ Duane Gilles - Water Distribution Manager
 - ▶ Travis Hildebrandt - Collection Systems Manager
 - ▶ Steve Capin - Construction Manager



Overview

What is it? A decades-long program to replace our aging water mains and supporting infrastructure started in 2017

REFRESH Evansville includes:

- ▶ Replacement of aging water mains
- ▶ Improvements to booster stations
- ▶ Construction of new infrastructure



Background

AWWA Benchmarking Survey for Fiscal Year 2016:

The number of breaks per 100 miles of pipe ranged from three to 24 and the mean was nine.

Explanation of Need:

Year	# of Breaks	Rate (breaks/100 mi)
2014	481	47.9
2015	384	38.2
2016	257	25.6
2017	232	23.1
<i>Jan 2018</i>	<i>159</i>	<i>Already 15.9!</i>



Background (Continued)

- ▶ Historical rate of water main replacement $\leq 0.5\%$
 - ▶ To replace 1,000 miles >>> 200+ years
- ▶ REFRESH targets rate of replacement = 1.5%
 - ▶ To replace 1,000 miles >>> 67 years



Progress to Date

By the Numbers:

- ▶ 24 Projects currently scheduled for REFRESH totaling nearly 170,000 LF
 - ▶ 8 Project Bids Awarded in 2017 totaling nearly 40,000 LF
 - ▶ 16 Projects in Design in 2017
 - ▶ 11 Projects Bidding in 2018 totaling over 69,000 LF
 - ▶ 5 Projects Finishing Design in 2018 totaling over 60,000 LF to be bid in early 2019



2017 Construction

Project Name	Length (ft)	Size (in)	Status
Stringtown Road	1,880	16	Complete
Hi-Rail Pedestrian Trail	2,770	16	Complete
Western Terrace Phase II	6,460	8	Construction
Lant Circle / Bayard Park	4,670	8	Construction
Weinbach Ave, Lloyd to Pollack	13,670	12	Construction
Keck Ave, Grand to Stringtown	2,370	12	Construction
Heidelbach Ave, Morgan to Olmstead	6,300	12	Construction
St. James, Morgan to Keck	1,670	8	Construction
TOTAL	39,790		



Design Update

Project Name	Length (ft)	Size (in)	Status	Bid Opening
St. George and Melody Hill	14,540	8	Awaiting Award of Contract	Jan 2018
West Mill Road and Mohr Road	3,500	12	Bidding	Feb 2018
Green River Road Phases VI and VII	10,600	12	Bidding	Feb 2018
Vanderburgh Neighborhood Phases I and II	8,800	8	Design	March 2018
Lodge Ave, Walnut to Riverside	9,500	12	Design	June 2018
Mt. Auburn Road, Optimist to Buchanan	2,600	8	Design	June 2018
Walcott, West of Van Ness	500	8	Design	Aug 2018
Broadway Ave, Red Bank to Schutte Road, Frey Road	13,500	12	Design	Aug 2018

CONTINUED ON NEXT SLIDE



Design Update (Continued)

Project Name	Length (ft)	Size (in)	Status	Bid Opening
Eichel, US 41 to Fares	1,100	8	Design	Aug 2018
Washington and Second	2,300	8	Planning	Oct 2018
New Harmony Road, Allens Lane to Harmony Way	2,400	12	Design	Oct 2018
Kansas Road Relocation, St. Petersburg to I-69	6,200	12	Planning	Early 2019
Sweetser Rotherwood Area	15,800	8	Design	Early 2019
President's Neighborhood East/West/Central	20,400	8	Design	Early 2019
Harmony Way, Franklin Heights Neighborhood	9,600	12	Design	Early 2019
Hogue Road, Red Bank to Williams	8,500	8	Design	Early 2019

130,000 FEET CURRENTLY IN DESIGN



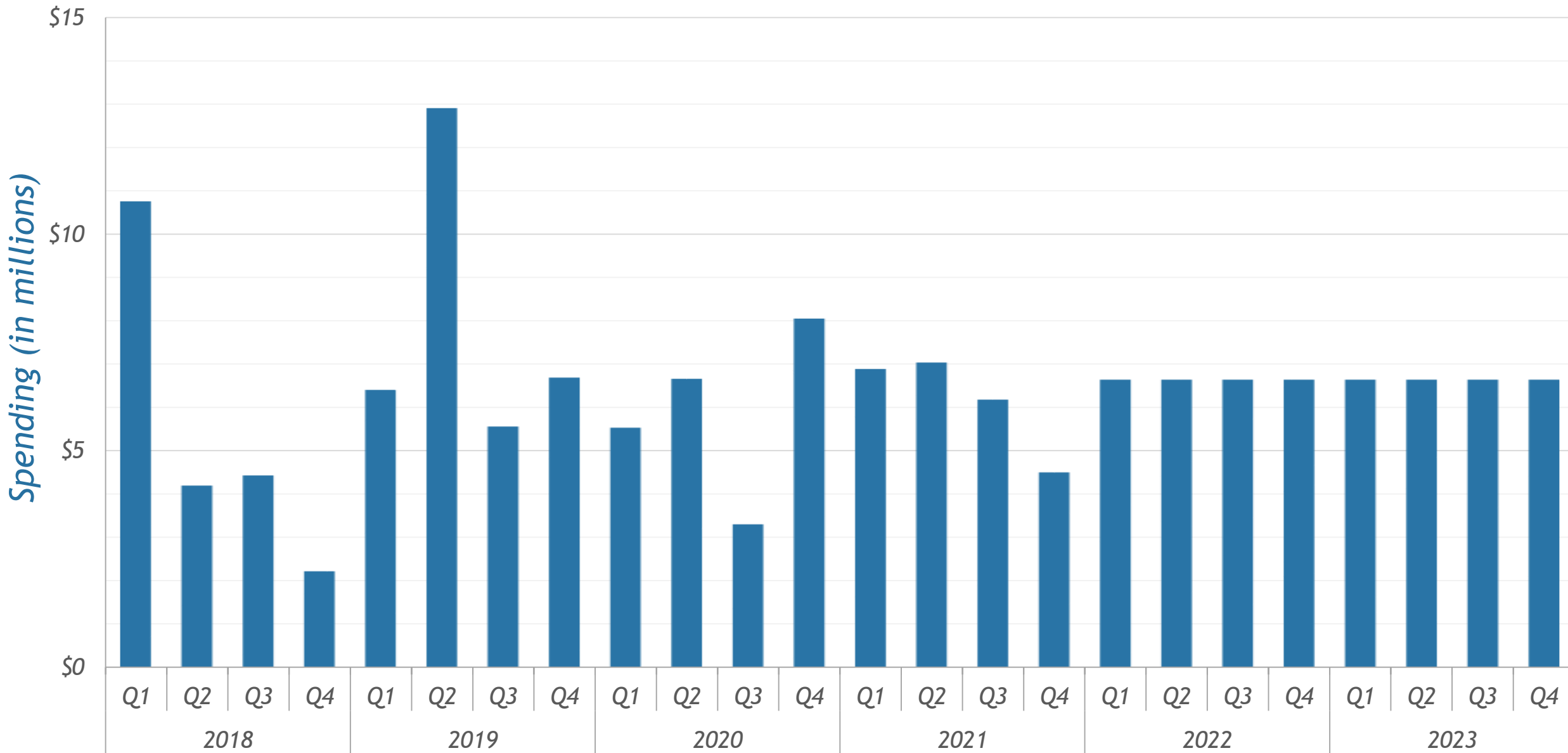
Looking to 2019-2021

By the Numbers:

- ▶ Over 45 projects proposed for REFRESH totaling nearly 238,000 LF
 - ▶ 11 Projects in 2019 totaling over 80,000 LF
 - ▶ 20 Projects in 2020 totaling over 78,000 LF
 - ▶ 15 Projects in 2021 totaling nearly 80,000 LF
- ▶ Proposed REFRESH program costs of \$100,000,000+ for 2019-2021

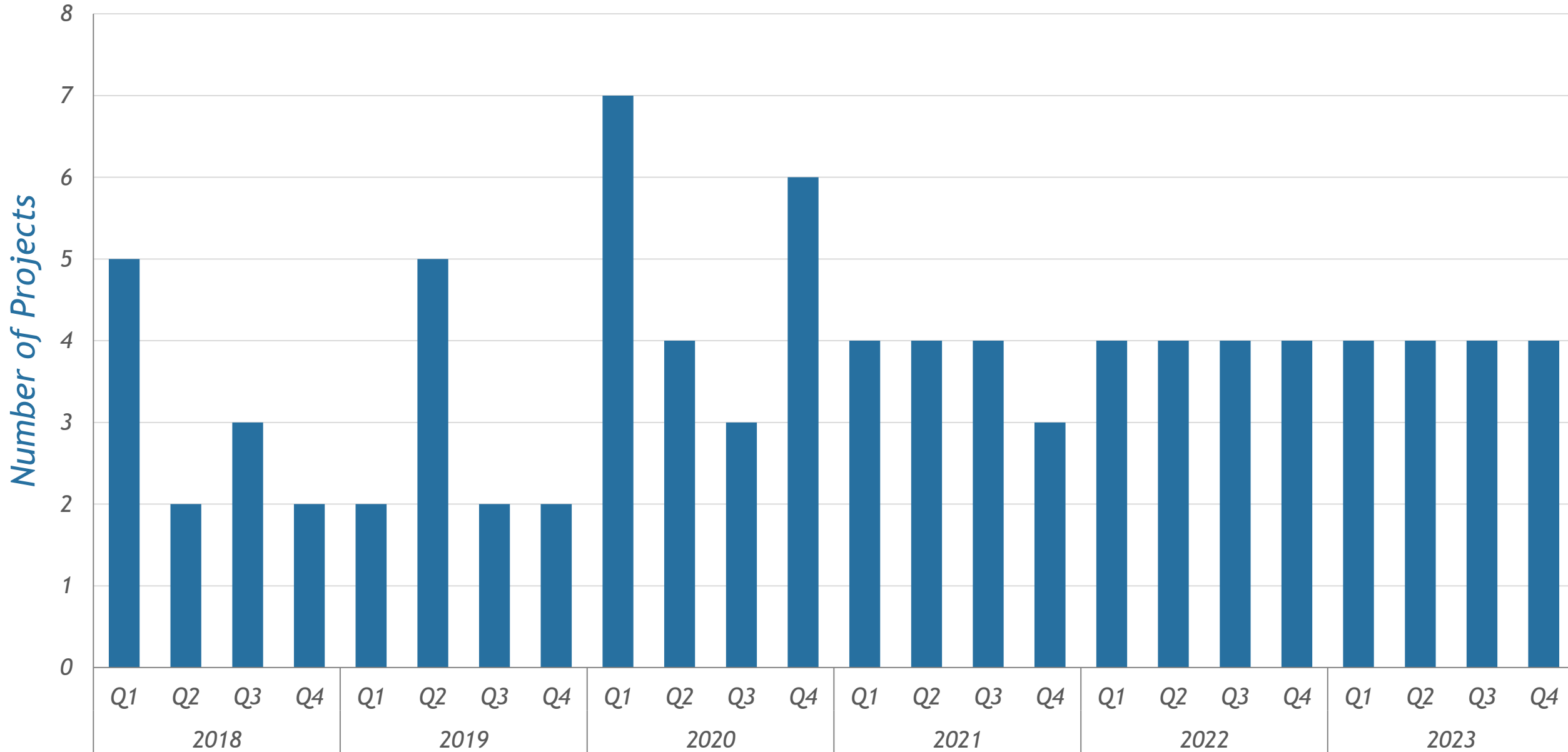


REFRESH Spending - 5-Year Look Ahead by Quarter





REFRESH Projects Bidding - 5-Year Look Ahead by Quarter



Non-REFRESH Water Projects

What is it? Continued capital projects for water projects at either the water treatment plant, existing booster stations, or infrastructure to supply wholesale customers

Non-REFRESH Water Projects include:

- ▶ Improvements to booster stations and storage tanks
- ▶ Water treatment plant upgrades
- ▶ Construction of new infrastructure

Non-REFRESH Water Projects

By the Numbers:

- ▶ Over 44 projects proposed for Non-REFRESH Water Projects
 - ▶ 12 WTP Capital Projects with estimated cost of nearly \$25M
 - ▶ 18 WTP Maintenance Projects with estimated cost of nearly \$10.5M
 - ▶ 4 Booster Station Maintenance Projects with estimated cost of \$2.5M
 - ▶ Potential 10 Booster/Distribution Projects to increase wholesale customer demands with estimated cost of \$30M
 - ▶ Major rehabilitation or replacement of the WTP with estimated cost of \$50-100M
- ▶ Proposed Non-REFRESH costs of \$118M to \$168M+ for 2019-2021



Background

- ▶ Evansville is a combined sewer system community
 - ▶ Approximately 2 billion gallons of combined sanitary and storm water can escape the system in a year through 22 combined sewer outfalls into the Ohio River and Pigeon Creek
- ▶ 2010 - Evansville and the EPA and IDEM enter into an agreement to address the issue
- ▶ 2011 - Evansville initiates development of Integrated Overflow Control Plan (IOCP)
- ▶ 2013 - Evansville submits IOCP to the EPA and IDEM
- ▶ 2014 - The initial IOCP is rejected and the parties enter into negotiations
- ▶ 2016 - All parties come to a final agreement for design, construction, and monitoring improvements to the sewer system to reduce the frequency and volume of combined sewer overflows in Evansville
- 2016-2040 - Implementation of the IOCP program of projects, collectively called Renew Evansville



Overview

What is it? Evansville's largest investment in clean water infrastructure that will significantly improve the sewer system with a **24-½ year, \$729 M** plan

RENEW *Evansville* will include:

- ▶ Upgrades to Existing Wastewater Treatment Facilities
 - ▶ Construction of New In-System Storage Facilities
 - ▶ Sewer Separation Projects
 - ▶ Combined Sewer Overflow Treatment Facilities
 - ▶ Inflow and Infiltration Reduction Projects
 - ▶ Sanitary Sewer Capacity Projects



Progress to Date

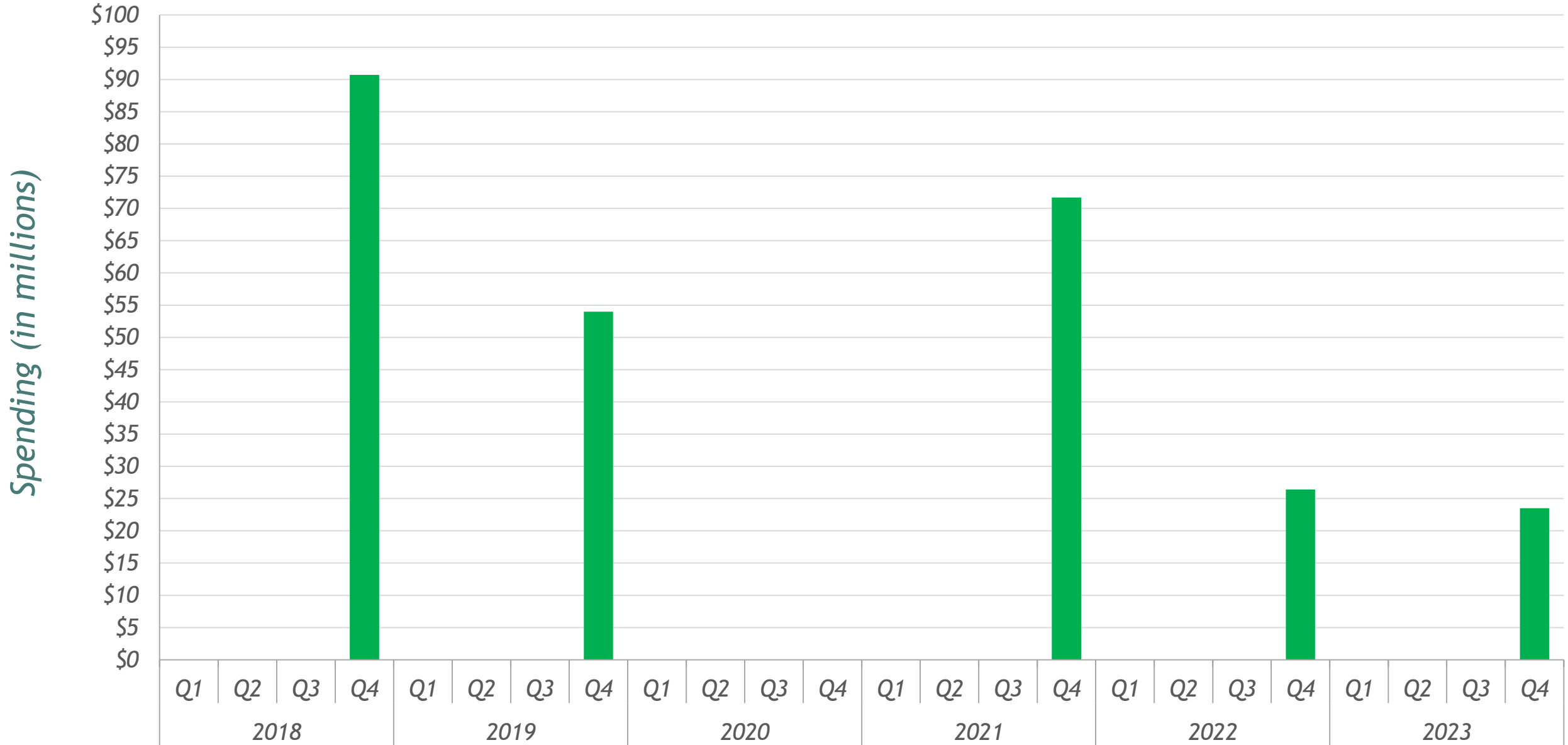
14 projects scheduled in 2018-2019

10 upcoming Bid Advertisements before 2018 year end

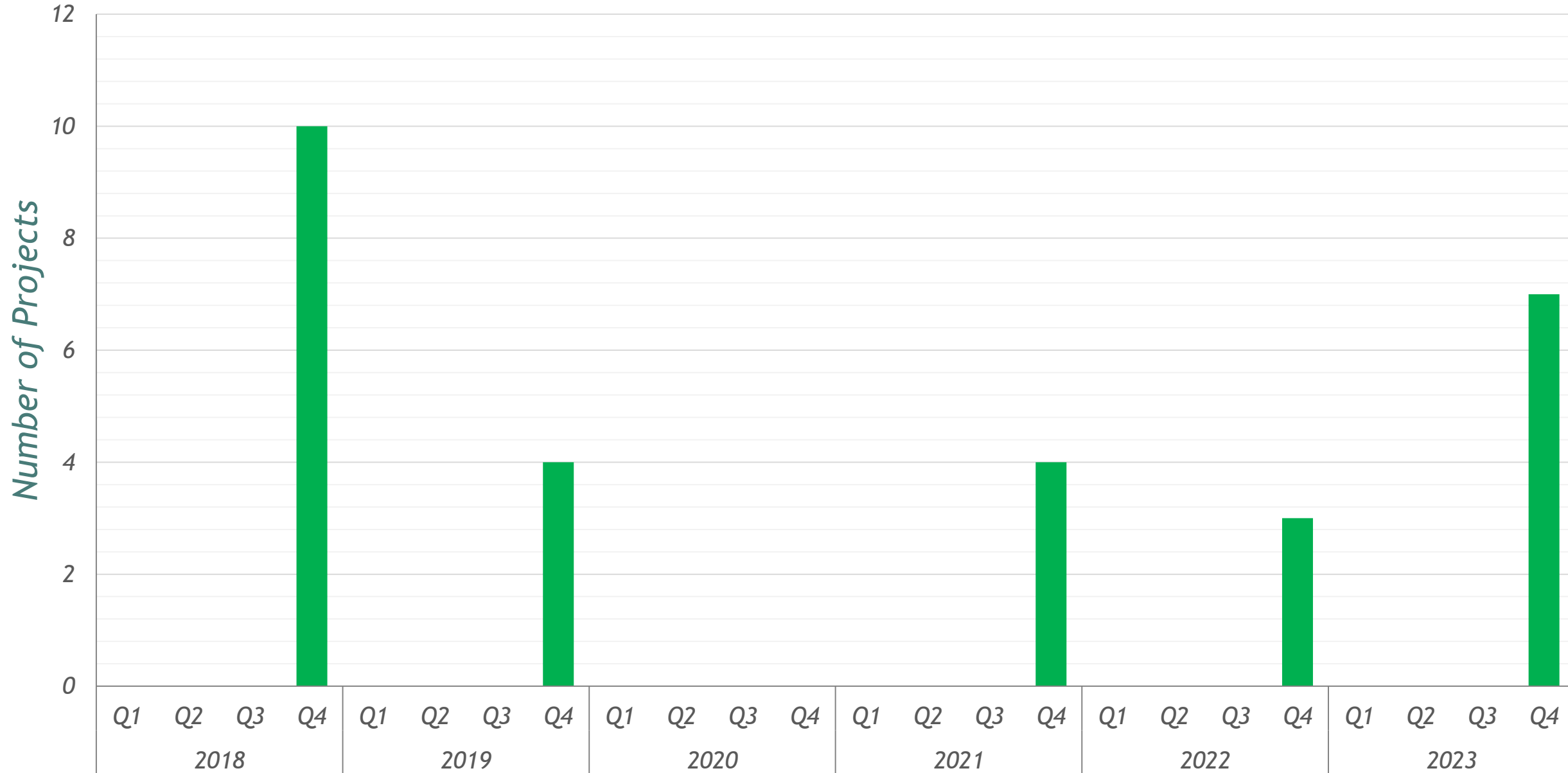
On-going Projects

- ▶ Cass-Adams Relief Sewer (Under Construction)
 - ▶ North Park I/I Reduction (Design Complete)
 - ▶ West Plant Upgrades (In Design)
 - ▶ East Plant Effluent Pump Station (In Design)
 - ▶ East Plant Upgrades (In Design)
 - ▶ Waterworks Road Relocation (In Design)

IOCP Sewer Spending - 5-Year Look Ahead by Quarter



IOCP Projects Bidding - 5-Year Look Ahead by Quarter





Upcoming Projects

	Estimated Cost	Bid Date
▶ North Park Rehab Phase 2	\$ 1.7 M	4 th Qtr 2018
▶ West Collection Real Time Controls	\$ 1.1 M	4 th Qtr 2018
▶ Akin Park Storm Sewer	\$ 3.0 M	4 th Qtr 2018
▶ Waterworks Road Relocation	\$ 2.3 M	4 th Qtr 2018
▶ (4) East WWTP Effluent Sunrise Station	\$ 20.0 M	4 th Qtr 2018
▶ West WWTP Capacity Expansion	\$ 32.2 M	4 th Qtr 2018
▶ West WWTP Storage Basin	\$ 30.4 M	4 th Qtr 2018
▶ (3) East WWTP Effluent Sunrise Station	\$ 14.0 M	4 th Qtr 2019
▶ East WWTP Capacity Upgrades	\$ 40.0 M	4 th Qtr 2019
▶ Millersburg/Hwy 41 Rehab	\$ 0.6 M	4 th Qtr 2021
▶ Wetland Pump Station	\$ 61 M	4 th Qtr 2021
▶ 108" Wetland Conveyance Pipe	\$ 7.5 M	4 th Qtr 2021
▶ Lloyd Basin Rehab	\$ 2.6 M	4 th Qtr 2021
▶ E11 Basin Rehab	\$ 4.4 M	4 th Qtr 2022
▶ Wetland Treatment System	\$ 14.0 M	4 th Qtr 2022
▶ Wetland Treatment Disinfection	\$ 8.0 M	4 th Qtr 2022



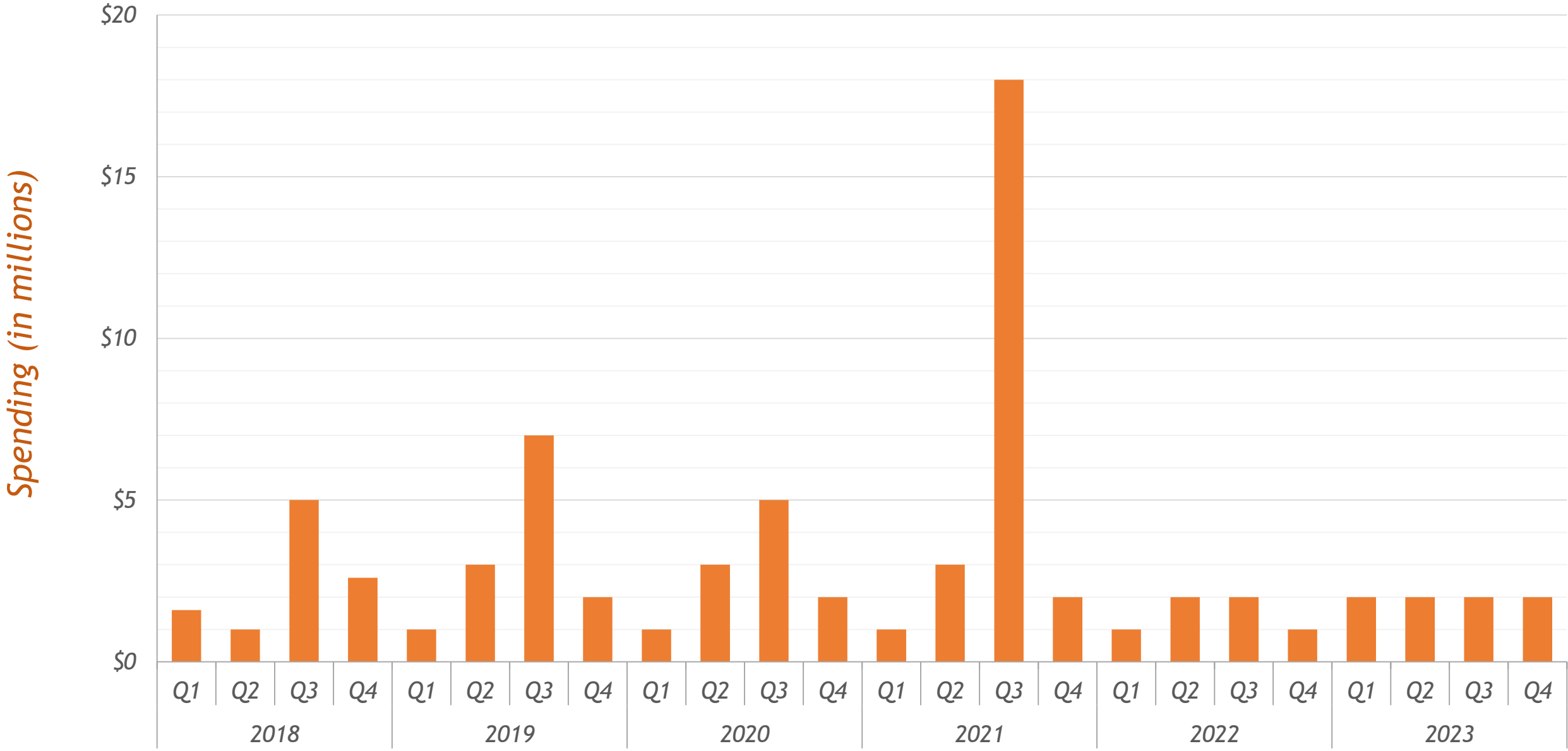
Non-IOCP Projects

What is it? Collection system and Wastewater Treatment Projects not included in *Renew Evansville*

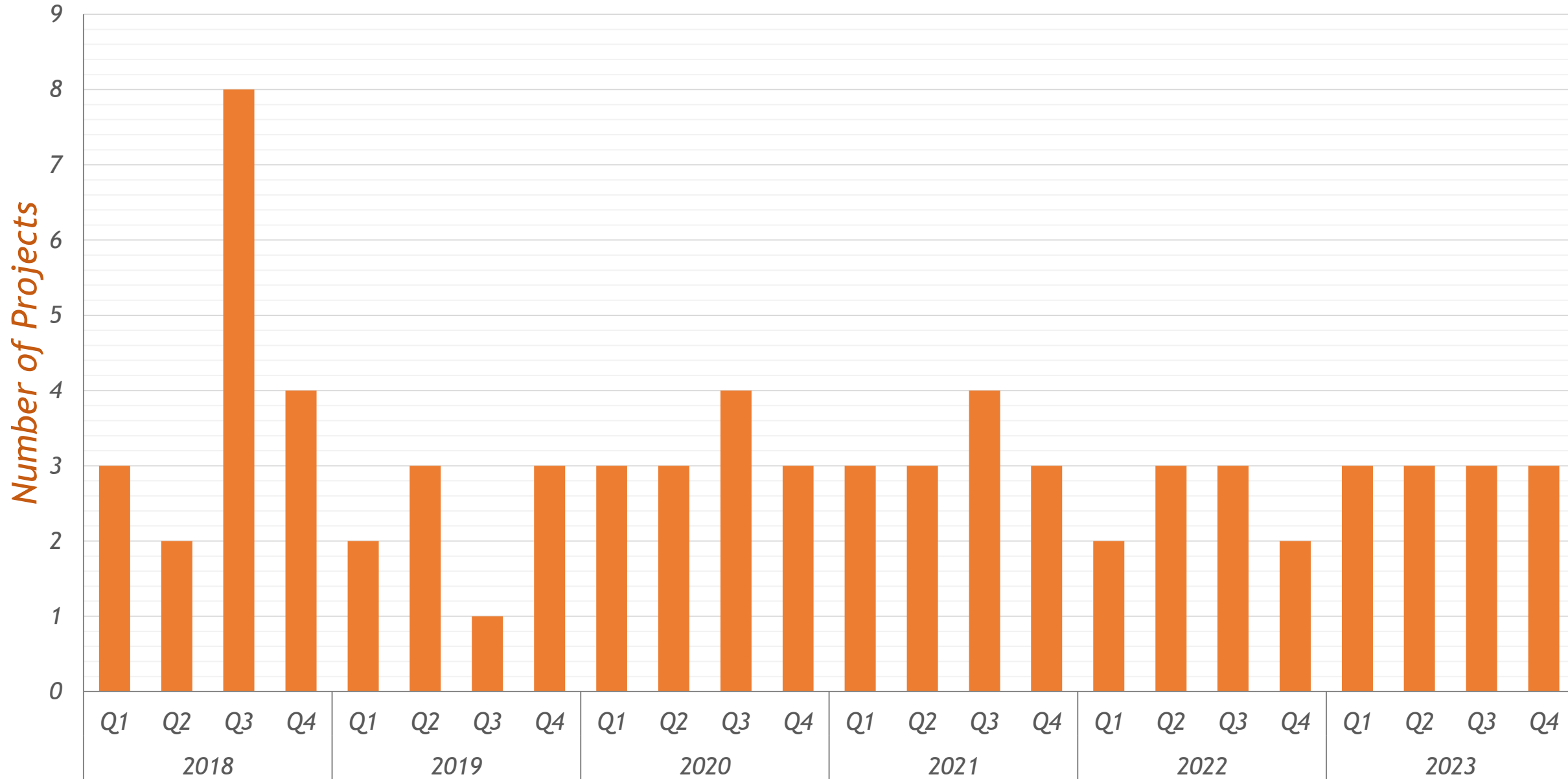
Non-IOCP Projects will include:

- ▶ 32 Lift Stations
 - ▶ 7 Gravity Extensions / Upgrades
 - ▶ Annual Sewer Lining and Sewer Repair
 - ▶ Miscellaneous Plant Work
 - ▶ Miscellaneous Collection System Projects, Vortex, and STEP
 - ▶ New Testing Lab

Non-IOCP Projects Spending - 5-Year Look Ahead by Quarter



Non-IOCP Projects Bidding - 5-Year Look Ahead by Quarter

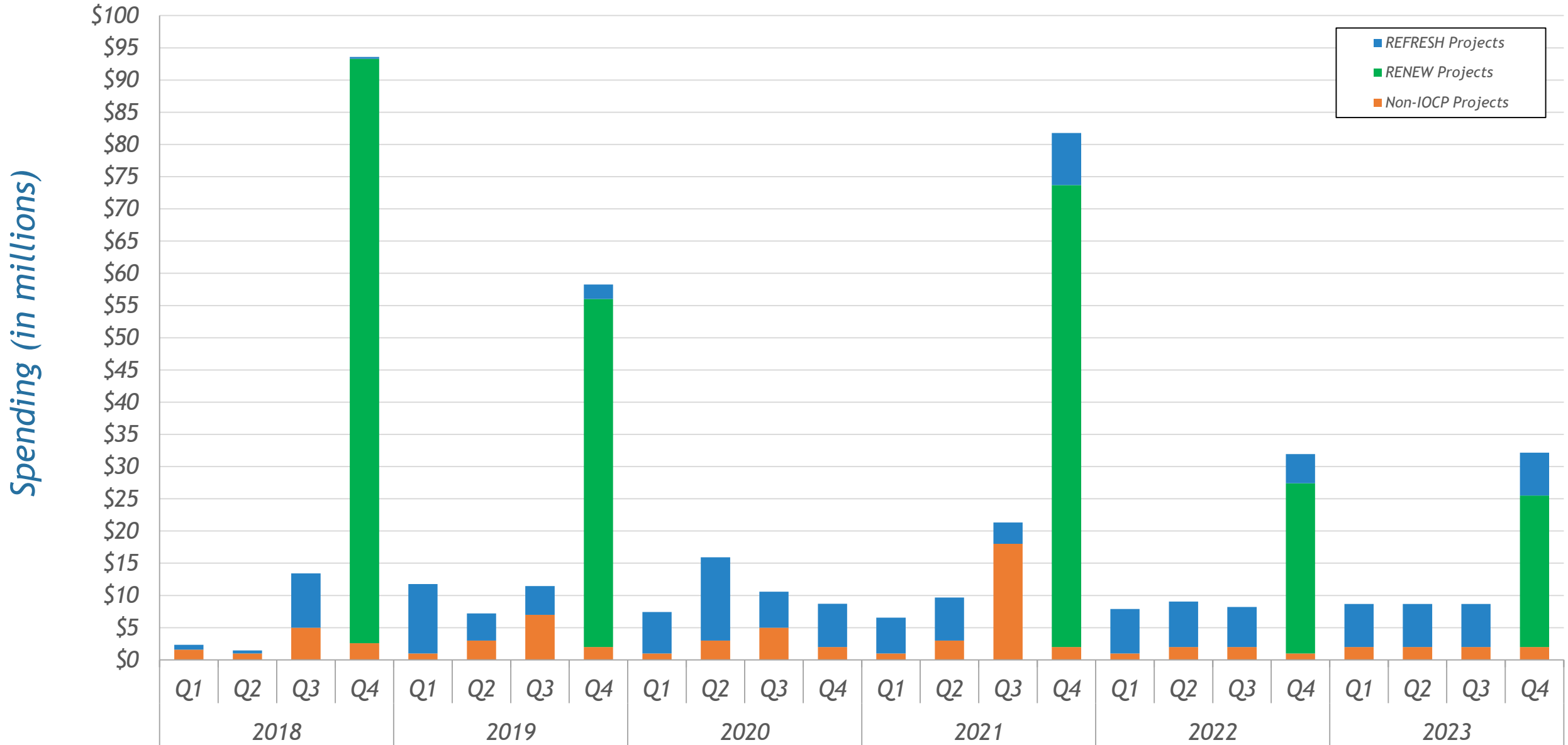




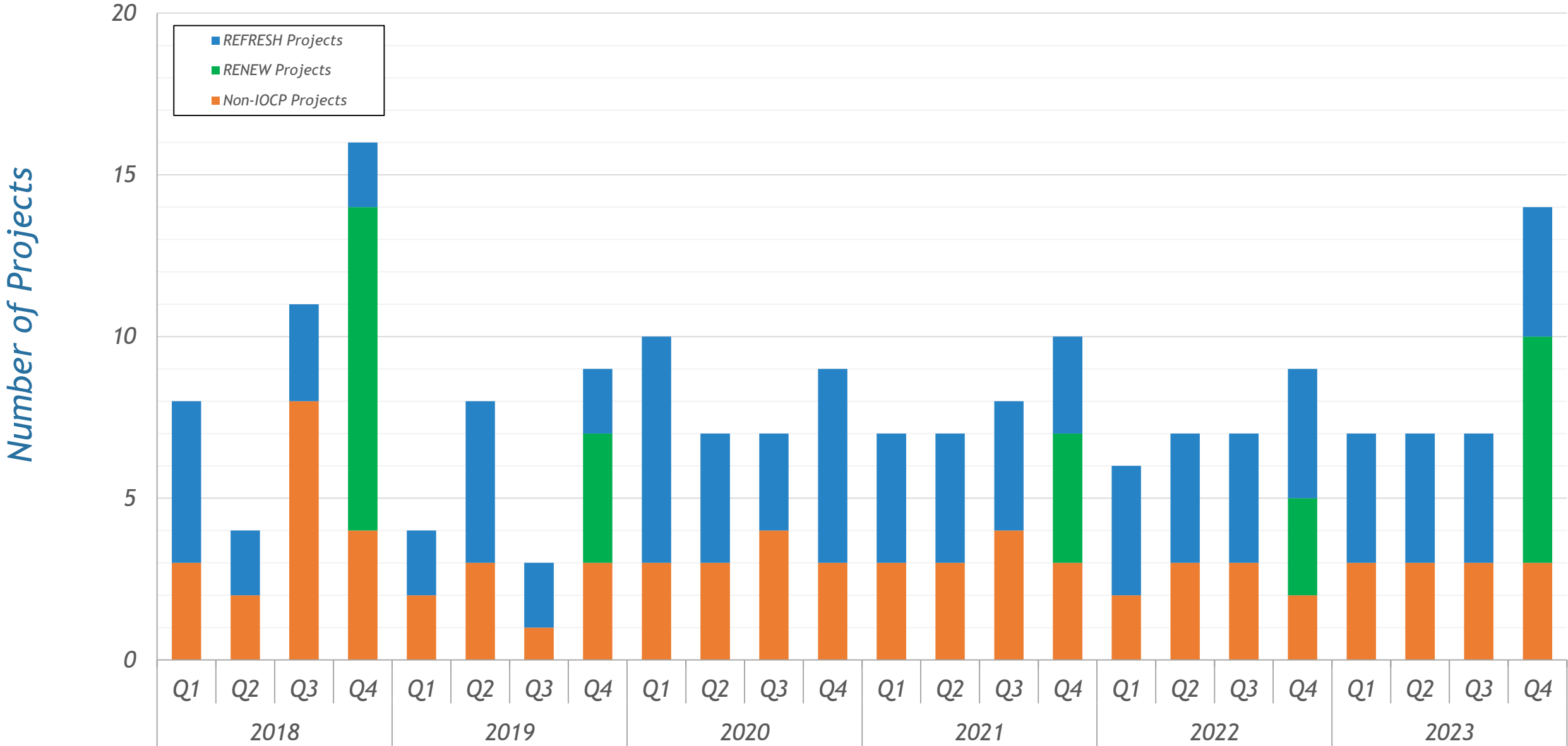
Non-IOCP Upcoming Projects

▶ Major Projects	Estimated Cost
▶ Valley Downs Interceptor	\$ 3 M
▶ Wansford Lift Station	\$ 30 M
▶ East/West Secondary Clarifiers	\$ 2 M
▶ West Odor Control Carbon Filter	\$ 1 M

Total Spending - 5-Year Look Ahead by Quarter



Total Projects Bidding - 5-Year Look Ahead by Quarter



Minority / Women Business Enterprise Program Overview

- ▶ Participation Goals: 12% MBE and 7% WBE participation
- ▶ Meet with Compliance Officer 3 days prior to Bid Opening if unable to meet goals
- ▶ Program Requirements and Forms A through E provided with Bid Documents
- ▶ Self Performance Clause (Elimination)
- ▶ City of Evansville will engage MBE/WBE participation of all phases of every project that is bid (Design, Professional Services, Construction)
- ▶ What is Good Faith Effort
- ▶ Questions / Discussion Regarding M/W BE Program

Purchasing and Local Requirements

- ▶ Contractors and Sub-Contractors must be licensed in Evansville
- ▶ Responsible Bidder Ordinance (Evansville Municipal Code 3.95.040)
 - ▶ Form included with Bidding Documents:



City of Evansville, Indiana

RESPONSIBLE BIDDING ORDINANCE FORM

Municipal Code 3.95.040

All bids submitted in the amount of \$150,000.00 or more shall comply with the requirements of Evansville Municipal Code (EMC) 3.90.040 (“Responsible Bidding Ordinance”). It is the bidding contractor’s sole responsibility to review the Responsible Bidding Ordinance and provide all required documentation, statements and information no later than the public bid opening. Failure to comply with the Responsible Bidding Ordinance will result in rejection of the contractor’s bid.

All bidders shall provide a written list that discloses the name, address, and type of work for each first-tier subcontract from which the bidder has accepted a bid and/or intends to hire on any part of the public work project, including individuals performing work as independent contractors. In accordance with EMC 3.90.110, all bidders shall adhere to City policy and procedures pertaining to minority-owned business and women-owned business utilization. Submittal requirements of

Open Question and Answer



Evansville
WATER AND SEWER UTILITY

Thank you for your time