CASTLE ROCK WATER STRATEGIC PLAN



JUNE 4, 2019



NEW 5 YEAR STRATEGIC PLAN

Strategies

- Strategy 1 Ensure long-term water availability
- Strategy 2 Utilize Town values to fulfill Utilities Vision and Mission
- Strategy 3 Enhance customer satisfaction
- Strategy 4 Maintain financial sustainability
- Strategy 5 Optimize infrastructure performance
- Strategy 6 Demonstrate industry leadership

	Total Tactics	Completed	Ongoing	Not Completed	Missing	Completed plus Completed and Ongoing
Overall	197	16%	58%	23%	3%	74%
Strategy 1	55	24%	36%	40%	0%	60%
Strategy 2	33	9%	85%	6%	0%	94%
Strategy 3	18	22%	39%	39%	0%	61%
Strategy 4	33	9%	58%	21%	12%	67%
Strategy 5	27	11%	85%	4%	0%	96%
Strategy 6	31	16%	58%	23%	3%	74%

Results

- Covered 2013 to 2018
- 197 tactics with 74% completed
- Created and tracked 23 key performance indicators

NEW 5 YEAR STRATEGIC PLAN MISSION / VISION / STRATEGIES

- Vision Be a national leader
- Mission Provide our community with exceptional service

Strategies

- Strategy 1 Ensure long-term water
- Strategy 2 Support, engage and inspire our team
- Strategy 3 Enhance customer satisfaction
- Strategy 4 Maintain financial sustainability
- Strategy 5 Optimize infrastructure performance
- Strategy 6 Demonstrate industry leadership

NEW 5 YEAR STRATEGIC PLAN GOALS STRATEGY 1 - ENSURE LONG TERM WATER

- Goal 1 Secure water supplies to meet our customer water demands
 - Example tactic 1-1-7 Complete expansion of Castle Rock Reservoir 2
- Goal 2 Fully utilize groundwater and renewable supplies
- Goal 3 Emphasize water efficiency to help reduce overall water demands
- Goal 4 Protect our water supply sources
- Goal 5 Develop strategic partnerships to support long term water
- 36 Tactics in all for strategy 1



Castle Rock Reservoir 1 – key component of Goal 1

NEW 5 YEAR STRATEGIC PLAN GOALS STRATEGY 2 – SUPPORT, ENGAGE AND INSPIRE OUR TEAM

 Goal 1 – Invest in our organization by recruiting & retaining competent, talented people

- Goal 2 Live Town values to ensure a healthy organization that will drive high performance
- Goal 3 Integrate health and safety into the daily functions of Castle Rock Water to systematically eliminate the root causes of deficiencies and to consistently and continuously improve safety performance
 - Example Tactic 2-3-2 Establish processes to ensure effective employee participation in the HSMS





Safety stand down training as part of our Health & Safety goal

18 Tactics in all for strategy 2

NEW 5 YEAR STRATEGIC PLAN GOALS STRATEGY 3 - ENHANCE CUSTOMER SATISFACTION

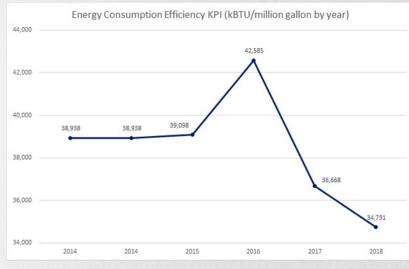
- Goal 1 Identify and respond to stakeholder needs, perceptions and expectations through effective communication
- Goal 2 Provide innovative and cost-effective approaches to exceptional customer service
- Goal 3 Increase effectiveness of communication and education to our customers
 - Example Tactic 3-2-6 Implement Advanced Metering Infrastructure (AMI) solution
- 16 Tactics in all for strategy 3



Advanced metering infrastructure communications equipment

NEW 5 YEAR STRATEGIC PLAN

- Goal 1 Strive to maintain sustainable rates and fees, and demonstrate fiscal responsibility, accountability and transparency
 - Example Tactic 4-1-6 Evaluate the use of renewable energy, like solar power, to reduce operational costs.
- Goal 2 Operate on a cost-of-service basis and effectively managing expenditures and revenues
- 12 Tactics in all for strategy 4



Energy consumption patterns over last 6 years – goal 1 is to improve

NEW 5 YEAR STRATEGIC PLAN GOALS STRATEGY 5 - OPTIMIZE INFRASTRUCTURE PERFORMANCE

- Goal 1 Maintain and enhance infrastructure stability and performance to optimize life-cycle costs
 - Example Tactic 5-1-3 Evaluate and update procedures for identifying capital rehabilitation and replacements for water, wastewater and stormwater assets
- Goal 2 Develop and manage infrastructure to keep pace with growth
- Goal 3 Protect infrastructure through emergency preparedness, planning and response
- 17 Tactics in all for strategy 5



Manhole to be rehabilitated in the next year

NEW 5 YEAR STRATEGIC PLAN GOALS STRATEGY 6 - DEMONSTRATE INDUSTRY LEADERSHIP

- Goal 1 Strive for continuous improvement throughout the organization through the application of the principles of Deming's Quality Cycle (Plan, Do, Check, Act) in all facets of the organization
- Goal 2 Deliver a high-quality product and service to our community
- Goal 3 Be a forward-thinking organization
 - Example Tactic 6-3-1 Plan for Direct Potable Reuse (DPR) by designing systems to meet the expected regulatory requirements
- Goal 4 Be a recognized leader among our water utility peers



Our reuse water logo

19 Tactics in all for strategy 6

NEW 5 YEAR STRATEGIC PLAN KEY PERFORMANCE INDICATORS

- Types of indicators
 - Organizational Development
 - Business Operations
 - Customer Service
 - Water Operations
 - Wastewater Operations
 - Stormwater Operations
- Added new indicators
- 30 indicators in all
- Tracked against American
 Water Works Association
 national benchmarks

		Castle R	ock Water	AWWA KPI	Dashboard	d						
Performance Improving												
Performance Declining				Vedian Quartile AV								
© PerformanceStaying about the same © Edition Quartile AWWA												
Organizational Development	Units	Frequency	2014	2015	2016	2017	2018	Quartile	Progress	AWWA Top	AWWA Median	AWWA Button
				100	***	104		-		444		м.
. Customer Accounts per Employee	Accounts	A	533	458	492	481	440	-	8	609	492	
. Employee Turnover Rate	Employees / Year		12%	19%	15%				0	5%	8%	11
. Training Hours per Employee	Hours	A	31	30	35	39			0	27.1	13.9	5.
Overtime Hours per Employee OSHA Safety Indicators	Hours	A	32	33	28	54	43		v			
Conia sarety indicators												
OSHA Incident Rate		M	21	10	4	3	5		a	2.1	14.3	50
. Days without a Lost time injury/illness	Days	M	187	207	573	938	48		- 8			
. Total 9 of incidents	Incidents	м	17	13	9	2	7		a	4.3	16.0	47.
. Total # of Incidents Jusiness Operations	riouelts	M	17	13	9	2		-	0	4.3	16.0	47.
L Debt Ratio	×	A	1996	15%	15%	139	12%		00	20%	33%	52
L. Operating Ratio	%	Q	33%	346	32%				- 00	466	55%	68
. Upd early kabo		ч	33%	546	529	284	5276			4016	33%	- 60
Energy Consumption Efficiency (Water)	k8TU/MG/Year	Α.	38,938	39,098	42,585	36,668	32,946		9	3,924	6,123	8,76
1. Triple-Bottom-Line Index	%.	A	70%	60%	60%				Ú.	85%	65%	50
Justomer Service												
2. Customer Service Complaints - Don't Track	# Complaints/1,000 Accts	M			-	-	-	-		0.3	4.1	15
Technical Service Complaints (WQ)	# Complaints/1,000 Accts	М	1.01	1.07	0.0001	1.2700	0.8200		0	2.9	8.5	22.
Cost of Residential Service (Average Monthly Bill)	\$/mo	A	\$ 102.35	\$ 103.17	\$ 109.32	\$ 116.28	\$ 126.11		8	\$ 70.95	\$ 88.70	\$ 120.5
Vater Operations												
5. Compilance Rate	% Days in Compilance	A	100%	100%	100%	1009	100%		- 00	100%	100%	200
6. Operation Cost (\$/MGD)	\$/MGD	Q	\$ 4,254.86	\$ 4,384.00	\$ 4,307.45	\$ 4,490.17	\$ 5,213.62		- 5	\$ 1,778.00	\$ 2,425.00	\$ 3,337.0
7. MGD/Employee	MGD/Employee	A	0.15	0.14	0.13	0.14	0.14		-00-	0.29	0.23	0.1
Water Distribution System Integrity	Breaks-Leaks/100 Miles of Pipe	M	3.08	4.86	3.72	4.99	7.35		8	4	8	2
Nonrevenue Water												
9. Apparent Water Loss	MG	A	32	35	38	39	42		00	*		
O. Real Water Loss	MG	A	148	135	248	236	62		0			
Consumption (gpad)	MIG	- ^	740	155	240	250	02					
	and .		109	453	***	***	114		-			
Total Volume Water Produced / Total Population Served Total Volume Water Metered (Residential Customers)	gpod KG	A	1,337,702	1,429,900	1,553,604	1,640,470			9			
3. Renewable Water Usage Rate (%)	х.	М	13.2%	16.9%	11.0%	18.19			9		-	
Total Renewable Water Amount	MG	М	295,888,149	272,000,804	300,545,089	497,951,044	857,786,345		- 9			
5. Reusable Water Usage Rate (%)	ж.	M				4	-		00			
Fast ewater Operations												
6. Sewer Overflow Rate	SSO/100 Miles of Pipe	M		0.79			1.07		60	0.2	2.0	7.
7. Operational Cost (\$/MGD)	S/M/GD	Q	\$ 3,546.99	\$ 3,358.49	\$ 3,481.61	\$ 3,532.53			60	\$ 1,607.00		\$ 3,581.0
8. MGD Processed / Employee	MGD/Epmployee	A	0.14	0.12	0.10	0.09	0.10		60	0.26	0.19	0.1
tormwater Operations												
9. Stormwater Customer Inquires per Total Single Family Equivalent (SFEs)	# Complaints/SFE	Q	0.0069	0.0066	0.0059	0.0053	0.0055		00			
Stormwater Operating Costs per Total SFEs	\$/SFE	Q	\$ 53.24	\$ 63.18	\$ 77.05	\$ 64.64	\$ 61.24		. 0			

TOWN OF CASTLE ROCK

Excellence · Dedication · Service

Legend:

MGD = million gallons per day kBTU = 1000 British Thermal Units gpod = gallons per capits per day KG = 1000 gallons WQ = Water Quality

NEW 5 YEAR STRATEGIC PLAN KEY TACTICS AND RECOMMENDATIONS

Key Tactics

- Advanced Metering Infrastructure,
- Direct Potable Reuse,
- Coloradoscapes,
- Apprenticeship Program,
- Renewable Energy,
- Stormwater CIP, pond ownership and excess water,
- Rehabilitation/Replacements,
- Water Quality, and
- **Partnerships**

Recommendations

- Water Commission
- Staff



The challenge of road salt and water quality



THANK YOU

I MOVE TO APPROVE RESOLUTION NO. 2019-065 A RESOLUTION APPROVING THE CASTLE ROCK WATER FIVE-YEAR STRATEGIC PLAN (2019-2023)