Webinar

Water Wise Development Coalition Meeting - 5

Date: March 27, 2024

00:00:05 --> 00:00:06:	Hi, everybody.
00:00:06 --> 00:00:07:	Thank you for joining us.
00:00:08 --> 00:00:11:	This is the Water Wise Development Coalition meeting.
00:00:11 --> 00:00:15:	I'm Marianne Epig, Senior Director of Resilience for the Urban
00:00:15 --> 00:00:19:	Land Institute, and we are excited today to talk to
00:00:19 --> 00:00:23:	you about some important issues related to water wise strategies.
00:00:24 --> 00:00:27:	Just a quick intro for some newbies.
00:00:27 --> 00:00:31:	The Water Wise Development Coalition is a partnership between ULI,
00:00:31 --> 00:00:35:	the Alliance for Water Efficiency, the Sonoran Institute, and the
00:00:35 --> 00:00:38:	Water Now Alliance, and we convene land use and real
00:00:39 --> 00:00:43:	estate professionals with public sector decision makers with the primary
00:00:43 --> 00:00:47:	goal of advancing water smart real estate development and supportive
00:00:47 --> 00:00:48:	policies.
00:00:48 --> 00:00:51:	We meet quarterly, virtually, and it's free to join.
00:00:52 --> 00:00:54:	And if you can help us spread the word about
00:00:54 --> 00:00:55:	this, that would be wonderful.
00:00:56 --> 00:00:59:	And as you'll see at the end, we'll have time
00:00:59 --> 00:01:02:	to discuss upcoming meeting topics, speakers and efforts.
00:01:03 --> 00:01:05:	And you guys all have a say and what that
00:01:05 --> 00:01:05:	turns out to be.
00:01:08 --> 00:01:11:	We have a a jam packed agenda for you today.
00:01:12 --> 00:01:16:	The topic for today's meeting is water wise policies, regulations
00:01:16 --> 00:01:19:	and incentives related to land use.
00:01:19 --> 00:01:24:	In particular, we have 3, excuse me, 4 presenters today.

00:01:24 --> 00:01:28:	Andrew Morris with the Alliance for Water Efficiency will be
00:01:28 --> 00:01:31:	discussing state level policies and resources.
00:01:31 --> 00:01:36:	Waverly Claw will be talking about local policies and resources
00:01:36 --> 00:01:40:	and then Morgan Hester and her colleague Scott Winter will
00:01:40 --> 00:01:44:	be discussing how Colorado Springs has update updated its land
00:01:45 --> 00:01:49:	use and landscape codes in alignment with its water efficiency
00:01:49 --> 00:01:50:	plan and goals.
00:01:51 --> 00:01:54:	And then we'll conclude with some group updates and discussion.
00:01:55 --> 00:01:57:	So we're excited to get started.
00:01:57 --> 00:01:59:	I'm going to turn it over to our first speaker,
00:01:59 --> 00:02:00:	Andrew.
00:02:03 --> 00:02:04:	Thanks so much.
00:02:04 --> 00:02:07:	Let me get my presentation pulled up here.
00:02:08 --> 00:02:09:	Thank you for the invitation.
00:02:09 --> 00:02:12:	I'm Andrew Morris from the Alliance for Water Efficiency.
00:02:12 --> 00:02:15:	I'm the senior manager for policy and programs.
00:02:16 --> 00:02:19:	I'll do a brief introduction of AW Looking at who's
00:02:19 --> 00:02:21:	on the call, it seems like most of you all
00:02:21 --> 00:02:24:	are familiar, but just kind of a high level to
00:02:24 --> 00:02:26:	give a sense of who we are as a national
00:02:26 --> 00:02:27:	non profit.
00:02:27 --> 00:02:29:	We really work to bring people together.
00:02:29 --> 00:02:32:	I think that's how I've gotten to know many of
00:02:32 --> 00:02:35:	you and we want to connect people across states, you
00:02:35 --> 00:02:39:	know, in into Canada, really connect people to build knowledge,
00:02:39 --> 00:02:42:	to collaborate and then focus on policy advocacy.
00:02:42 --> 00:02:44:	So a lot of work at really the federal and
00:02:44 --> 00:02:48:	the state levels and connecting people and just thinking about
00:02:48 --> 00:02:50:	who we are as an organization, that Big Blue block
00:02:50 --> 00:02:53:	there at 328, those are water utilities essentially.
00:02:53 --> 00:02:57:	So we are mostly water utilities, but also a good
00:02:57 --> 00:03:02:	number of businesses, manufacturers, trade associations and folks that work
00:03:02 --> 00:03:06:	with and serve water utilities that are all focused on
00:03:06 --> 00:03:08:	water efficiency.
00:03:08 --> 00:03:10:	So it's a good mix of members, but we do
00:03:10 --> 00:03:13:	tend to have kind of the bulk of our membership
00:03:13 --> 00:03:14:	in water utilities.

00:03:14 --> 00:03:17:	Those are both, you know, kind of municipal and governmental
00:03:17 --> 00:03:17:	utilities.
00:03:17 --> 00:03:20:	We have some investor owned utilities and a couple other
00:03:20 --> 00:03:23:	different flavors of utility types mixed in there.
00:03:24 --> 00:03:28:	So with that as background, I think it's helpful to
00:03:28 --> 00:03:32:	look at States and their water efficiency and that's been
00:03:32 --> 00:03:35:	a focus of ours over the past ten years or
00:03:35 --> 00:03:35:	so.
00:03:35 --> 00:03:40:	And we recently released our 2022 state policy scorecard.
00:03:40 --> 00:03:43:	A number of you have probably seen it or you've
00:03:43 --> 00:03:44:	seen presentations.
00:03:44 --> 00:03:46:	So I'm going to dig into a couple elements here
00:03:46 --> 00:03:49:	that are really focused on things that integrate land use
00:03:49 --> 00:03:52:	and water and then also might affect development.
00:03:53 --> 00:03:54:	But it's something we do every five years.
00:03:55 --> 00:03:58:	And what we do is we evaluate state policy and
00:03:58 --> 00:04:00:	we don't look at local policy.
00:04:00 --> 00:04:03:	I know there's tons of great things happening in states
00:04:03 --> 00:04:05:	that may not score as high as a state scorecard
00:04:05 --> 00:04:08:	just looks at the state policies and not the local
00:04:08 --> 00:04:08:	work.
00:04:09 --> 00:04:11:	And we also don't look at, you know, water usage
00:04:12 --> 00:04:13:	or water availability.
00:04:13 --> 00:04:15:	Obviously that gets very complex.
00:04:15 --> 00:04:17:	So we're really focused on the policy side at the
00:04:17 --> 00:04:21:	state level and the efficiency and sustainability policies there.
00:04:22 --> 00:04:23:	And it's not AG.
00:04:23 --> 00:04:24:	So AG's important.
00:04:25 --> 00:04:27:	Totally agree that our membership, we're more of a urban
00:04:27 --> 00:04:29:	water users, if you will.
00:04:29 --> 00:04:30:	So this is not an AG related report.
00:04:32 --> 00:04:35:	And the purpose of it is to encourage states to
00:04:35 --> 00:04:38:	adopt laws and policies that promote conservation efficiency.
00:04:39 --> 00:04:43:	We highlight exemplary laws and regulations and plans and policies
00:04:43 --> 00:04:44:	from different states.
00:04:46 --> 00:04:48:	And we end with recommendations for each state.
00:04:48 --> 00:04:50:	So if you're curious about your state, you can pull
00:04:51 --> 00:04:51:	it up.
00:04:51 --> 00:04:53:	It's on our website, it's available for everyone.
00:04:54 --> 00:04:54:	You can check that out.

00:04:56 --> 00:04:58:	Like I said, we do a wide range of policy
00:04:58 --> 00:04:58:	areas.
00:04:58 --> 00:05:00:	So I'm not going to try to talk about all
00:05:00 --> 00:05:02:	of these and I don't think all of them would
00:05:02 --> 00:05:03:	even be relevant to today's conversation.
00:05:03 --> 00:05:05:	So I'm going to focus in on a few here.
00:05:08 --> 00:05:10:	I did put the rankings and you have to that's
00:05:10 --> 00:05:11:	kind of the purpose of the scorecard.
00:05:12 --> 00:05:15:	But those are the overall rankings, not not just the
00:05:15 --> 00:05:16:	the policies we'll talk about today.
00:05:19 --> 00:05:22:	So this is new in our 2022 scorecard and it
00:05:22 --> 00:05:26:	was looking at and asking several questions around water and
00:05:26 --> 00:05:28:	land use integration planning.
00:05:29 --> 00:05:31:	And you know, we can see here that the the
00:05:31 --> 00:05:34:	States and it looks like a lot of the East
00:05:34 --> 00:05:36:	and a lot of the West and then a few
00:05:36 --> 00:05:40:	places in between have some state level policy to integrate
00:05:40 --> 00:05:41:	water and land use planning.
00:05:44 --> 00:05:46:	To dig a little deeper here, we asked, we, we
00:05:46 --> 00:05:51:	prepared the scorecard by asking questions normally of state agencies
00:05:51 --> 00:05:54:	or regulators and sometimes other folks in the states with
00:05:54 --> 00:05:55:	knowledge here.
00:05:56 --> 00:05:59:	And we, we asked three questions about the water use
00:05:59 --> 00:06:01:	and land use planning.
00:06:01 --> 00:06:04:	And I think something that was interesting that we saw
00:06:04 --> 00:06:06:	this time around, this is a new question for us
00:06:06 --> 00:06:08:	in 2022, is really the wide range of how people
00:06:08 --> 00:06:09:	do this.
00:06:09 --> 00:06:12:	You know, our questions are kind of general, so there's
00:06:12 --> 00:06:15:	lots of different ways people accomplish this goal.
00:06:16 --> 00:06:19:	Some are more or less binding, some are more or
00:06:19 --> 00:06:20:	less effective.
00:06:20 --> 00:06:23:	If we had to guess, sometimes it's really like, do
00:06:23 --> 00:06:26:	you have plans that mention water and land use?
00:06:26 --> 00:06:26:	OK.
00:06:27 --> 00:06:30:	You know, that's the limit of some plans where as
00:06:30 --> 00:06:34:	other states have requirements that things be more meaningfully integrated,
00:06:34 --> 00:06:38:	whether that's a comprehensive plan for local government, including water,
00:06:39 --> 00:06:43:	whether that's incorporating regional planning, demand

	forecast, future land use
00:06:43 --> 00:06:46:	plans and how that connects to future water use.
00:06:46 --> 00:06:47:	So there's a pretty wide range.
00:06:48 --> 00:06:51:	So I think in the future, our hope would probably
00:06:51 --> 00:06:54:	be to refine these a bit and highlight the ones
00:06:54 --> 00:06:56:	that seem like they, they could do a better job
00:06:56 --> 00:06:58:	of getting into the details.
00:06:59 --> 00:07:00:	But we kept it kind of high level.
00:07:01 --> 00:07:04:	I think one benefit of this time around was one,
00:07:04 --> 00:07:07:	we started talking about this and the importance of the
00:07:07 --> 00:07:09:	connection between land use and water use.
00:07:09 --> 00:07:11:	And then I think the second thing is we we
00:07:11 --> 00:07:12:	gathered all sorts of information.
00:07:12 --> 00:07:15:	So for each question, we end up with all the
00:07:15 --> 00:07:19:	examples from the state agency of their laws, of their
00:07:19 --> 00:07:22:	regulations, of their plans, of how it works.
00:07:22 --> 00:07:25:	So that helps us think through things better.
00:07:25 --> 00:07:27:	And also we are happy to connect our members or
00:07:27 --> 00:07:29:	other interested folks If you want to reach out.
00:07:30 --> 00:07:32:	And going back to the map for a second, if
00:07:32 --> 00:07:35:	you're wondering what your state said that gave them some
00:07:35 --> 00:07:38:	credit or what they're doing, if you don't already know,
00:07:38 --> 00:07:40:	we'd be happy to share that with you about your
00:07:40 --> 00:07:40:	state.
00:07:41 --> 00:07:45:	Or if you're curious about a neighbor upstream, downstream, different
00:07:45 --> 00:07:48:	part of the country, this report also enables us to
00:07:48 --> 00:07:51:	share what other people are doing and act as a
00:07:51 --> 00:07:52:	resource for everyone.
00:07:52 --> 00:07:55:	So I think the big picture observations and takeaways from
00:07:55 --> 00:07:58:	us was really there's a wide range of approaches.
00:07:58 --> 00:08:02:	And the 50 states survey approach this time around wasn't
00:08:02 --> 00:08:06:	really in depth enough to fully evaluate how well these
00:08:06 --> 00:08:07:	performed.
00:08:08 --> 00:08:11:	But certainly there's a wide range in terms of the
00:08:11 --> 00:08:14:	detail, the specificity, how water and land use are coordinated.
00:08:15 --> 00:08:17:	So that's that's a new element here.
00:08:18 --> 00:08:22:	A classic is fixture standards and building codes for water
00:08:22 --> 00:08:24:	efficient fixtures.
00:08:24 --> 00:08:26:	It's not directly related to land use, but it is
00:08:26 --> 00:08:26:	to development.
00:08:27 --> 00:08:30:	So we've asked that again, this is a growing area

00:08:30 --> 00:08:34:	still where different states are adopting requirements for water efficient
00:08:34 --> 00:08:36:	fixtures, appliances and so on.
00:08:36 --> 00:08:39:	So we also have some information on there and we
00:08:39 --> 00:08:42:	also track this regularly and have it on our website.
00:08:44 --> 00:08:47:	So I wanted to talk a little bit about things
00:08:47 --> 00:08:49:	that were not in the state scorecard, but that have
00:08:49 --> 00:08:52:	really been becoming hotter and hotter topics.
00:08:52 --> 00:08:54:	They've been around for, you know, a while now.
00:08:54 --> 00:08:57:	But nonetheless, they weren't in our last scorecard, but they
00:08:57 --> 00:08:59:	are things we've been focusing on lately.
00:09:00 --> 00:09:05:	We recently reduced this resource on NFT in 2023.
00:09:06 --> 00:09:10:	It's a Western focused resource and it's not specific to
00:09:10 --> 00:09:14:	just state policy, but it does include a healthy amount
00:09:14 --> 00:09:19:	of state policy, state law, state incentive programs, all related
00:09:19 --> 00:09:20:	to NFT.
00:09:20 --> 00:09:23:	And if you find this, it's available on our website
00:09:23 --> 00:09:24:	or our LinkedIn.
00:09:24 --> 00:09:27:	You can go to the state you're interested in and
00:09:27 --> 00:09:31:	we'll have examples and bullets and links to the relevant
00:09:31 --> 00:09:34:	resources or examples or kind of current events from these
00:09:35 --> 00:09:35:	states.
00:09:36 --> 00:09:39:	A fair amount of it is limited to new non
00:09:39 --> 00:09:41:	residential development.
00:09:42 --> 00:09:46:	There's, you know, tons of programs for existing landscapes as
00:09:46 --> 00:09:49:	well, but a lot of activity related to new non
00:09:49 --> 00:09:53:	residential development that's going to affect how people, you know,
00:09:53 --> 00:09:56:	develop and use water and and as they build out.
00:09:59 --> 00:10:01:	And again, this is not news to many people on
00:10:01 --> 00:10:04:	the call, but just another example of that was in
00:10:04 --> 00:10:08:	Colorado recently and the law was passed and signed related
00:10:08 --> 00:10:09:	to NFT in future development.
00:10:10 --> 00:10:13:	So it's a hot area continues to see a lot
00:10:13 --> 00:10:16:	of activity in a in a wide range of states
00:10:16 --> 00:10:16:	in the West.
00:10:20 --> 00:10:23:	I did want to flag something that we're starting to
00:10:23 --> 00:10:26:	see and that AW has been focusing on and that
00:10:26 --> 00:10:30:	is the Watersense Homes program that was revamped a couple
00:10:30 --> 00:10:30:	years back.

00:10:31 --> 00:10:33:	It's starting to gain a lot of traction in the
00:10:33 --> 00:10:34:	Southwest especially.
00:10:35 --> 00:10:38:	And one of the things we're looking at our state
00:10:38 --> 00:10:41:	level programs to incentivize water sense new homes.
00:10:42 --> 00:10:46:	We're also seeing in areas that are water stressed or
00:10:46 --> 00:10:50:	areas where it's hard to get water entitlements, builders are
00:10:50 --> 00:10:54:	increasingly looking at programs like this one as a way
00:10:54 --> 00:10:56:	to make the case to the state or to the
00:10:56 --> 00:11:00:	local community that they are going to be wise users
00:11:00 --> 00:11:02:	of water, have the water they need.
00:11:03 --> 00:11:06:	So I think there's a lot of interesting activity going
00:11:06 --> 00:11:09:	on in this program at the state level, potentially a
00:11:09 --> 00:11:10:	lot at the local level.
00:11:11 --> 00:11:13:	And this is an article from a couple years back
00:11:13 --> 00:11:16:	talking about the program and I thought was pretty interesting
00:11:16 --> 00:11:17:	from the journal AWWA.
00:11:20 --> 00:11:24:	Lastly, for something pretty different, I just wanted to flag
00:11:24 --> 00:11:27:	up there, we are seeing some trends related to it's
00:11:27 --> 00:11:31:	called the water demand calculator and premise plumbing design and
00:11:31 --> 00:11:32:	building design.
00:11:32 --> 00:11:35:	And really I think this is, you can put in
00:11:35 --> 00:11:39:	the category of now that we're seeing a lot of
00:11:39 --> 00:11:43:	improvements in efficiency, how do we adapt our buildings or
00:11:43 --> 00:11:46:	our landscapes or our plans to lower water use on
00:11:47 --> 00:11:49:	a per person or building basis.
00:11:49 --> 00:11:51:	And so this is a tool that allows you to
00:11:51 --> 00:11:53:	do that at the building level.
00:11:53 --> 00:11:57:	And more and more States and regions are adopting this.
00:11:57 --> 00:12:00:	It's part of the plumbing code and it allows building
00:12:01 --> 00:12:05:	owners or designers really to design the premise plumbing system
00:12:05 --> 00:12:07:	in a way that accounts for efficiency.
00:12:08 --> 00:12:11:	So with all of these, I I've tried to capture
00:12:11 --> 00:12:15:	areas where the development and water use intersect.
00:12:15 --> 00:12:17:	Some of that's kind of a broader lens, and those
00:12:17 --> 00:12:21:	are the state policies around land use planning and water
00:12:21 --> 00:12:24:	planning, the focus of our scorecard, and then everything down
00:12:24 --> 00:12:26:	to really the building level.
00:12:27 --> 00:12:29:	You know, it's not as directly land use planning in
00:12:29 --> 00:12:32:	the sense it doesn't relate to the buildings next door,
00:12:32 --> 00:12:35:	but I think there's this whole continuum of state policy

00:12:35 --> 00:12:38:	that's relevant for thinking about the big picture all the
00:12:38 --> 00:12:41:	way down to the building level on how you think
00:12:41 --> 00:12:42:	about efficiency and water use.
00:12:43 --> 00:12:45:	So try to hit a quick survey there of some
00:12:46 --> 00:12:48:	of the things that are top of mind for us,
00:12:48 --> 00:12:52:	but I'm happy to answer questions on any of those
00:12:52 --> 00:12:55:	topics or any other state policy issues that are top
00:12:55 --> 00:12:56:	of mind.
00:13:00 --> 00:13:02:	Thank you so much, Andrew.
00:13:03 --> 00:13:05:	So we have time for questions for Andrew.
00:13:05 --> 00:13:07:	You all are welcome to unmute.
00:13:07 --> 00:13:10:	Andrew, maybe you want to stop sharing your screen and
00:13:10 --> 00:13:12:	then we can see hopes when they ask questions.
00:13:13 --> 00:13:16:	I encourage people to to unmute and show your screen
00:13:16 --> 00:13:18:	if you ask a question, but you're also welcome to
00:13:18 --> 00:13:19:	use the chat box.
00:13:25 --> 00:13:29:	Danielle asked if you can drop links to resources you
00:13:29 --> 00:13:31:	highlighted into the chat box.
00:13:31 --> 00:13:32:	Andrew.
00:13:32 --> 00:13:34:	Certainly I will put several links in the chat box
00:13:34 --> 00:13:35:	for everyone.
00:13:37 --> 00:13:39:	You can do that after, after your Q&A, Andrew, if
00:13:39 --> 00:13:40:	you want.
00:13:40 --> 00:13:40:	You don't do that.
00:13:41 --> 00:13:43:	Sometimes I know I forget things, you know I got,
00:13:43 --> 00:13:44:	I got to know.
00:13:45 --> 00:13:48:	Yeah, Jenna, your hand is raised.
00:13:48 --> 00:13:49:	Yeah, I just wanted to.
00:13:49 --> 00:13:52:	Add to the the last little bit about the Wattersons
00:13:52 --> 00:13:52:	EPA rated homes.
00:13:53 --> 00:13:56:	So I work with the Eastern Municipal Water District in
00:13:56 --> 00:13:59:	Paris, California and they just did a big thing at
00:13:59 --> 00:14:02:	a community, you know, like 3, maybe 5 miles from
00:14:03 --> 00:14:03:	our main campus.
00:14:04 --> 00:14:05:	It's a brand new community.
00:14:05 --> 00:14:07:	There's 2-3 developments within it.
00:14:07 --> 00:14:09:	2 are Watersense EPA rated homes.
00:14:09 --> 00:14:10:	So they did a little EPA.
00:14:10 --> 00:14:14:	Watersense just released a study on that reviewing how that
00:14:14 --> 00:14:14:	went.
00:14:14 --> 00:14:17:	And then we're also looking to maybe work with them
00:14:17 --> 00:14:20:	in the future to install potentially like some flume devices

00:14:20 --> 00:14:22:	or something similar to try and see if like on
00:14:22 --> 00:14:23:	a per device level.
00:14:23 --> 00:14:25:	If the homes are are, I don't know if you
00:14:25 --> 00:14:29:	say operating, but operating as the Watersense EPA study thinks
00:14:29 --> 00:14:30:	that they should be.
00:14:30 --> 00:14:32:	And just kind of to find out how that's going.
00:14:32 --> 00:14:34:	And also just, you know, some end user information for
00:14:35 --> 00:14:36:	us as well as a water agency.
00:14:37 --> 00:14:39:	But I know that they, I think two weeks ago
00:14:39 --> 00:14:42:	released the findings of their initial part of that and
00:14:42 --> 00:14:45:	then I just started talking with Jonah about the next
00:14:45 --> 00:14:46:	steps for that.
00:14:48 --> 00:14:50:	Do do you have the link to that, Jenna, is
00:14:50 --> 00:14:51:	that out or where?
00:14:51 --> 00:14:51:	Where can I?
00:14:51 --> 00:14:54:	Find he sent me APDF because we're listed on there
00:14:54 --> 00:14:56:	but I I'm sure I can find something for.
00:14:57 --> 00:14:58:	Let me look it through my emails and see.
00:15:00 --> 00:15:00:	That's great.
00:15:01 --> 00:15:04:	And yeah, I think we're we're hearing some things from
00:15:04 --> 00:15:07:	our members happening at the local level which are pretty
00:15:07 --> 00:15:08:	exciting around that program.
00:15:08 --> 00:15:12:	And then the other thing I've heard some rumblings of
00:15:12 --> 00:15:17:	is on the energy side, sometimes performance based energy programs
00:15:17 --> 00:15:20:	like Energy Star Homes or others are used in building
00:15:20 --> 00:15:25:	codes as you know, either alternative pathways for meeting energy
00:15:25 --> 00:15:28:	efficiency, whereas in some cases required.
00:15:28 --> 00:15:31:	So I wouldn't be surprised if we see more instead
00:15:31 --> 00:15:35:	of focusing on just the toilet or just this piece,
00:15:35 --> 00:15:38:	you know, more holistic look at that new development and
00:15:38 --> 00:15:42:	how it uses water, which would give the the developer
00:15:42 --> 00:15:44:	choices as to how to achieve water savings.
00:15:44 --> 00:15:47:	So I think that's the trend we're maybe a little
00:15:47 --> 00:15:51:	behind energy on, but there's some interesting conversations going on
00:15:51 --> 00:15:51:	on there.
00:15:54 --> 00:15:56:	We have a question from Hope in the in the
00:15:56 --> 00:15:58:	chat Hope, do you mind unmuting and just asking?
00:16:01 --> 00:16:02:	Sure.
00:16:02 --> 00:16:03:	I'm sorry, I'm eating lunch.

00:16:04 --> 00:16:05:	No problem.
00:16:05 --> 00:16:09:	Yeah, I'm just curious about how we can ensure enforcement
00:16:09 --> 00:16:10:	on the state policies.
00:16:10 --> 00:16:14:	Like for example, Colorado just passed the non functional turf
00:16:14 --> 00:16:17:	ban on non residential spaces and we were talking about
00:16:18 --> 00:16:21:	it this morning in our staff meeting just about like.
00:16:22 --> 00:16:23:	We think it's great, but how are we going to?
00:16:23 --> 00:16:27:	Ensure that that it's actually happening.
00:16:28 --> 00:16:29:	Right, right.
00:16:30 --> 00:16:33:	I think two things I'd share that might be helpful.
00:16:34 --> 00:16:40:	One is the AWWATEC committee has a project that's just
00:16:40 --> 00:16:47:	kicking off on enforcement mechanisms for water conservation policies.
00:16:47 --> 00:16:49:	And it really gets that.
00:16:49 --> 00:16:53:	Situations where a utility serves an area that maybe like
00:16:53 --> 00:16:56:	say you're a city, but you serve unincorporated areas or
00:16:56 --> 00:17:00:	say you're a water authority or a special district that
00:17:00 --> 00:17:02:	doesn't have any land use control.
00:17:04 --> 00:17:07:	There's a lot of different flavors where the utility might
00:17:07 --> 00:17:10:	not have the type of direct planning, zoning, building code
00:17:10 --> 00:17:13:	inspection that a city would have, or they don't have
00:17:13 --> 00:17:14:	it for their full service area.
00:17:14 --> 00:17:19:	So some of those enforcement questions are a function of
00:17:19 --> 00:17:22:	that and I do think this study is going to
00:17:22 --> 00:17:28:	highlight ways different utilities have tackled that issue of where
00:17:28 --> 00:17:33:	their ability to enforce lines up unevenly with their service
00:17:33 --> 00:17:33:	area.
00:17:34 --> 00:17:37:	Second, secondly, I like at the state level, one thing
00:17:37 --> 00:17:40:	I observed in the scorecard process and then also in
00:17:40 --> 00:17:42:	my old job I worked in, in Georgia a lot
00:17:42 --> 00:17:43:	on water planning.
00:17:44 --> 00:17:49:	And sometimes there are structural problems or challenges, let's say
00:17:49 --> 00:17:54:	with state laws where there are requirements but no clear
00:17:54 --> 00:17:55:	responsibility.
00:17:55 --> 00:17:58:	The responsibility on state agencies or on locals is unclear
00:17:58 --> 00:18:00:	in the underlying laws or plans.
00:18:02 --> 00:18:04:	And sometimes that's really not a fix you can fix
00:18:04 --> 00:18:04:	locally.
00:18:05 --> 00:18:06:	It's got to be fixed at the state level.
00:18:07 --> 00:18:09:	But that's a challenge when or sometimes there's just requirements

00:18:09 --> 00:18:11:	in law and that doesn't really say who does what.
00:18:12 --> 00:18:15:	So some of those are are problems that are really
00:18:15 --> 00:18:19:	probably state legislature problems or sometimes the agency is responsible
00:18:19 --> 00:18:22:	for the requirements can help fill some gaps with rule
00:18:22 --> 00:18:23:	making.
00:18:23 --> 00:18:24:	But that is a common problem.
00:18:24 --> 00:18:25:	Great.
00:18:29 --> 00:18:31:	Questions I have AI have a quick question.
00:18:31 --> 00:18:37:	Andrew, are you seeing pushback on right sizing tap, tap
00:18:37 --> 00:18:37:	sizes?
00:18:39 --> 00:18:41:	Maybe that's a local question for Waverly, but I'm I'm
00:18:41 --> 00:18:43:	really interested in that.
00:18:44 --> 00:18:44:	Yeah.
00:18:44 --> 00:18:48:	So I can, I can defer to Waverly.
00:18:48 --> 00:18:50:	I don't know if you have any specific examples or
00:18:50 --> 00:18:51:	if you'll cover any.
00:18:54 --> 00:19:00:	Well, I'm not covering any in this particular presentation, but
00:19:00 --> 00:19:04:	I mean, I do know that there's a lot of
00:19:04 --> 00:19:08:	research going on out there and a lot of communities
00:19:08 --> 00:19:13:	trying to better align their tap fees and tap sizes
00:19:13 --> 00:19:15:	with the water budget.
00:19:16 --> 00:19:21:	The estimated amount of water that the the new development
00:19:21 --> 00:19:25:	will use and kind of weaving in incentives for more
00:19:26 --> 00:19:31:	water efficient development in the form of kind of reduced
00:19:31 --> 00:19:32:	tap fees.
00:19:33 --> 00:19:38:	You know, and so we're seeing that in different communities
00:19:38 --> 00:19:39:	in Colorado.
00:19:40 --> 00:19:47:	Little Thompson Water Conservation District is utilizing an urban tap
00:19:47 --> 00:19:53:	fee structure where they are charging a smaller amount for
00:19:54 --> 00:20:00:	taps that are intended to be serving infill development that
00:20:00 --> 00:20:05:	have smaller lot sizes and there is a a penalty
00:20:05 --> 00:20:09:	if you exceed your allotted water budget.
00:20:10 --> 00:20:14:	The City of Fountain was working for a while on
00:20:14 --> 00:20:15:	linking their.
00:20:16 --> 00:20:23:	Tap fees with the amount of low water use landscaping
00:20:23 --> 00:20:26:	installed on the site.
00:20:26 --> 00:20:30:	So there are a few initiatives at the local level
00:20:30 --> 00:20:32:	where that's where that's concerned.
00:20:34 --> 00:20:37:	And I think on the state level, I would just
00:20:37 --> 00:20:40:	add, depending on the state you're in, sometimes the ability

00:20:40 --> 00:20:44:	in the methodology to charge impact fees, development charges, capacity
00:20:44 --> 00:20:48:	fees, they're called different things, different states.
00:20:48 --> 00:20:50:	But your ability to charge those and how you charge
00:20:50 --> 00:20:54:	those is determined by state statute or rules in some
00:20:54 --> 00:20:54:	cases.
00:20:54 --> 00:20:58:	So at the state level, there are sometimes, like if
00:20:58 --> 00:21:01:	a developer is frustrated with a city or a county
00:21:01 --> 00:21:05:	and how they're being assessed, fees or meter sizes, they
00:21:05 --> 00:21:06:	complain to the state.
00:21:07 --> 00:21:11:	Sometimes those statues have causes of action in them, private
00:21:11 --> 00:21:15:	causes of action where developers can bring lawsuits against utilities.
00:21:15 --> 00:21:18:	So I've seen limited activities in some of those areas.
00:21:23 --> 00:21:23:	Great.
00:21:23 --> 00:21:24:	Thank you, both.
00:21:25 --> 00:21:28:	And then Andrew, seems like the most action is happening
00:21:28 --> 00:21:31:	in the landscaping arena right now at the state level.
00:21:31 --> 00:21:32:	Is that true?
00:21:32 --> 00:21:35:	I'm just wondering because you have a better overall sense
00:21:35 --> 00:21:38:	of this than I do, like percentage wise, what, how
00:21:38 --> 00:21:42:	many, how many of these policies are really landscape versus
00:21:42 --> 00:21:43:	building oriented?
00:21:44 --> 00:21:46:	Yeah, there's still a fair amount of building.
00:21:46 --> 00:21:47:	It just is not.
00:21:47 --> 00:21:50:	It's more things like the water domain calculator, for example,
00:21:50 --> 00:21:52:	is kind of just a follow on to the work
00:21:52 --> 00:21:54:	that's already been done.
00:21:54 --> 00:21:58:	So it's a little quieter, the less controversial, probably a
00:21:58 --> 00:22:02:	little less impactful the outdoors, I think the greater focus
00:22:02 --> 00:22:04:	for more of our members.
00:22:05 --> 00:22:07:	There's some other things that are again, a little distant
00:22:07 --> 00:22:11:	from this conversation like water utility, water loss, some other
00:22:11 --> 00:22:13:	things that there's a fair amount of activity on.
00:22:13 --> 00:22:16:	But in the built environment and in, you know, kind
00:22:16 --> 00:22:18:	of the land use context, I would say it's it's
00:22:18 --> 00:22:20:	much more outdoor focused.
00:22:24 --> 00:22:24:	Excellent.
00:22:24 --> 00:22:24:	Thank you.
00:22:25 --> 00:22:27:	Any other final questions for Andrew?

00:22:30 --> 00:22:31:	OK, I'm not seeing any.
00:22:31 --> 00:22:33:	If you do, if you think of something later, please
00:22:33 --> 00:22:36:	put it in the chat box and Andrew can respond.
00:22:39 --> 00:22:39:	Sorry.
00:22:39 --> 00:22:40:	Go ahead, Andrew.
00:22:40 --> 00:22:40:	I'll.
00:22:40 --> 00:22:41:	Just say I'll drop my e-mail in there too if
00:22:41 --> 00:22:42:	you ever want to chat.
00:22:43 --> 00:22:44:	I'd love to learn from you too, so reach out
00:22:44 --> 00:22:45:	anytime.
00:22:45 --> 00:22:46:	Thank you, Andrew.
00:22:47 --> 00:22:47:	All right.
00:22:47 --> 00:22:50:	Our next speaker is Waverly Klaw with the Sonoran Institute.
00:22:54 --> 00:22:54:	Great.
00:22:55 --> 00:22:56:	Hello again, everyone.
00:22:56 --> 00:23:00:	Nice to see you today and thanks for joining us
00:23:00 --> 00:23:02:	for this topic today.
00:23:02 --> 00:23:04:	So I'm going to.
00:23:05 --> 00:23:05:	Talk.
00:23:05 --> 00:23:11:	About the kind of local level land use policies or
00:23:11 --> 00:23:17:	regulations that can be adopted and implemented to support water
00:23:17 --> 00:23:21:	wise development and redevelopment.
00:23:21 --> 00:23:23:	So just a little bit about me.
00:23:23 --> 00:23:26:	I'm the director of the Growing Water Smart program for
00:23:26 --> 00:23:27:	the Sonoran Institute.
00:23:27 --> 00:23:31:	The Sonoran Institute's mission is to connect people and communities
00:23:31 --> 00:23:34:	with the natural resources that nourish and sustain them.
00:23:35 --> 00:23:39:	And I run the Growing Water Smart program, which focuses
00:23:39 --> 00:23:44:	on training and supporting local government leaders and their water
00:23:45 --> 00:23:50:	providers in implementing plans and policies to support community and
00:23:50 --> 00:23:52:	Regional Water resilience.
00:23:52 --> 00:23:56:	And we do that primarily through our 2 1/2 day
00:23:56 --> 00:24:01:	Growing Water Smart workshop and follow up technical assistance grants
00:24:02 --> 00:24:06:	that we provide to communities to better align their water
00:24:06 --> 00:24:09:	and land use planning approaches.
00:24:09 --> 00:24:13:	And at this point, since we started in 2017, we
00:24:14 --> 00:24:18:	have trained over 100 cities and counties and towns in
00:24:18 --> 00:24:23:	kind of integrating water and land use together through a

00:24:24 --> 00:24:26:	series of 19 workshops.
00:24:26 --> 00:24:31:	And I believe we're at about 42 projects that we
00:24:31 --> 00:24:37:	have funded across California, Colorado, Arizona to to take action
00:24:37 --> 00:24:42:	and actually implement some of the steps identified in the
00:24:42 --> 00:24:46:	communities action plans from the workshop.
00:24:46 --> 00:24:49:	So I'll talk a little bit more about that later.
00:24:49 --> 00:24:52:	But you know, really I want to dive into this
00:24:52 --> 00:24:53:	topic at the local level.
00:24:54 --> 00:24:58:	You know, what are land use plans and policies?
00:24:58 --> 00:25:03:	They are the governmental power to regulate what is built
00:25:03 --> 00:25:03:	and where.
00:25:04 --> 00:25:08:	And you know, of course they're they shape what our
00:25:08 --> 00:25:14:	buildings and our transportation modes look like and how efficiently
00:25:14 --> 00:25:17:	they can use natural resources.
00:25:18 --> 00:25:23:	And we have existing development in our communities that may
00:25:23 --> 00:25:27:	not be using water as efficiently as it could be
00:25:27 --> 00:25:31:	because of outdated fixtures and appliances indoors.
00:25:32 --> 00:25:37:	And of course the development pattern of our existing develop
00:25:37 --> 00:25:40:	existing buildings has been determined.
00:25:40 --> 00:25:42:	So that's kind of what we're working with already in
00:25:43 --> 00:25:44:	the built environment.
00:25:44 --> 00:25:49:	But we also know that new development has the potential
00:25:49 --> 00:25:54:	to increase in our total water demand and, you know,
00:25:54 --> 00:26:00:	disturbing green fields and and natural spaces creates impervious surfaces
00:26:00 --> 00:26:05:	and impacts the ability to infiltrate rain and storm water
00:26:05 --> 00:26:06:	into the ground.
00:26:06 --> 00:26:10:	So the point here really is that through land use
00:26:10 --> 00:26:16:	planning and policy making, we have the opportunity to really
00:26:16 --> 00:26:20:	build and redevelop in our communities in such a way
00:26:20 --> 00:26:25:	that makes them resilient and sustainable and equitable in the
00:26:25 --> 00:26:30:	ways that we want to really utilize our scarce water
00:26:30 --> 00:26:31:	resources.
00:26:34 --> 00:26:35:	And so how do we achieve that?
00:26:36 --> 00:26:41:	We really want to in the Growing Water Smart program
00:26:41 --> 00:26:46:	and when thinking about water and land use integration, focus
00:26:46 --> 00:26:53:	on maximizing approaches to conserving water, using it as efficiently

00:26:53 --> 00:26:59:	as possible, using all forms of water strategically, including reuse,
00:26:59 --> 00:27:04:	rather than focusing on on acquiring more water, storing it.
00:27:06 --> 00:27:10:	And and also really looking at the ways that we
00:27:10 --> 00:27:15:	can manage our rain and storm water in ways that
00:27:15 --> 00:27:21:	use nature based approaches through low impact development on site
00:27:21 --> 00:27:27:	or green infrastructure rather than kind of our traditional approaches
00:27:27 --> 00:27:32:	of of piping water away from where it falls in.
00:27:32 --> 00:27:35:	In order to achieve that, we really have to work
00:27:35 --> 00:27:36:	collaboratively.
00:27:36 --> 00:27:40:	We have to break down some of the traditional silos
00:27:40 --> 00:27:46:	that we see between land use planners, water resource managers,
00:27:46 --> 00:27:50:	elected officials so that we can come up with the
00:27:50 --> 00:27:56:	most strategic opportunities and develop strategies that make sense for
00:27:56 --> 00:27:58:	the communities in which we live.
00:27:58 --> 00:28:02:	And I'm really looking forward to hearing more from Colorado
00:28:02 --> 00:28:06:	Springs today about how they were able to break down
00:28:06 --> 00:28:10:	those silos and really achieve that integration on water and
00:28:10 --> 00:28:11:	land use planning.
00:28:16 --> 00:28:22:	So I want to make the point that water wise
00:28:22 --> 00:28:28:	policies can actually achieve many different benefits.
00:28:28 --> 00:28:33:	And sometimes I think we get pretty siloed in our
00:28:33 --> 00:28:37:	own thinking about, you know, what is the water savings
00:28:38 --> 00:28:40:	of this land use policy.
00:28:40 --> 00:28:45:	But we can think about how to make our communities
00:28:45 --> 00:28:51:	sustainable and resilient in many different facets, such as keeping
00:28:52 --> 00:28:57:	the cost of water manageable so that residents don't get
00:28:57 --> 00:29:02:	hit so hard in their pocketbooks or their wallets for
00:29:02 --> 00:29:02:	water.
00:29:03 --> 00:29:06:	They're paying less because they're using less.
00:29:06 --> 00:29:08:	And we also are able to keep the cost of
00:29:08 --> 00:29:13:	water more manageable for new development projects, especially affordable housing,
00:29:13 --> 00:29:16:	which I'll talk about a little bit later.
00:29:18 --> 00:29:21:	Some of these policies also help us build resilience to
00:29:21 --> 00:29:22:	natural hazards.
00:29:22 --> 00:29:25:	It keeps development out of floodplains.
00:29:26 --> 00:29:32:	It allows us to integrate Firewise standards into our landscaping

00:29:32 --> 00:29:33:	practices.
00:29:34 --> 00:29:39:	And some of these policies also help us protect ecosystem
00:29:39 --> 00:29:43:	services, support our economic goals as well.
00:29:43 --> 00:29:46:	So I think more and more we're really looking at
00:29:47 --> 00:29:49:	these multi benefit solutions.
00:29:51 --> 00:29:56:	So the way that we really breakdown the opportunities for
00:29:56 --> 00:30:01:	integrating water and land use into one another is by
00:30:01 --> 00:30:05:	focusing on five different tool boxes.
00:30:06 --> 00:30:11:	And they they include long range planning, which is ensuring
00:30:11 --> 00:30:18:	that a community's comprehensive or general plan adequately addresses water,
00:30:18 --> 00:30:23:	especially regarding the planned growth for the community.
00:30:23 --> 00:30:28:	And that those comprehensive plans or general plans are in
00:30:29 --> 00:30:33:	line with the water providers water supply plans on or
00:30:33 --> 00:30:36:	their water efficiency plans.
00:30:37 --> 00:30:41:	So that everyone's on the same page in terms of
00:30:41 --> 00:30:45:	the the water needs for the community as well as
00:30:45 --> 00:30:50:	the the development and growth projections for the community as
00:30:50 --> 00:30:51:	well.
00:30:52 --> 00:30:57:	Then we have water adequacy and alternative supplies.
00:30:58 --> 00:31:03:	This toolbox is really about policies that help us ensure
00:31:03 --> 00:31:08:	that sufficient water is available for new development and also
00:31:08 --> 00:31:13:	that alternative sources of water are being maximized to really
00:31:13 --> 00:31:18:	reduce any projected gap between water supply and demand.
00:31:19 --> 00:31:27:	And some of those policies include policies around water allocation.
00:31:27 --> 00:31:28:	I'll talk a little bit more about that.
00:31:29 --> 00:31:37:	Conservation, tap fees, grey water use where potable water is
00:31:37 --> 00:31:40:	or isn't acceptable to use.
00:31:40 --> 00:31:43:	We're seeing more policies around that these days as well.
00:31:45 --> 00:31:50:	The next toolbox is around the urban form and the
00:31:51 --> 00:31:53:	built environment.
00:31:53 --> 00:31:59:	This really includes policies that promote A compact urban form,
00:31:59 --> 00:32:05:	policies that promote efficient buildings and low water use, landscapes
00:32:05 --> 00:32:08:	and reducing outdoor water use.
00:32:09 --> 00:32:15:	And many of those policies really are implemented through zoning

00:32:15 --> 00:32:19:	or building landscape or subdivision codes.
00:32:20 --> 00:32:23:	The 4th toolbox is around watershed health.
00:32:23 --> 00:32:29:	It's focused on those policies that protect sensitive ecosystems and
00:32:29 --> 00:32:34:	buffer the built environment from areas, you know, ensuring that
00:32:34 --> 00:32:39:	areas remain undeveloped or are developed in a certain way
00:32:39 --> 00:32:46:	to promote things like stormwater infiltration, floodplain management, water quality
00:32:46 --> 00:32:47:	protection, etcetera.
00:32:49 --> 00:32:55:	And then the last toolbox is really about policies that
00:32:55 --> 00:33:01:	can influence existing development and water users.
00:33:01 --> 00:33:07:	So that includes conservation based water rates and strategies like
00:33:07 --> 00:33:12:	retrofitting on resale, which I'll talk about in a moment
00:33:12 --> 00:33:13:	as well.
00:33:17 --> 00:33:20:	So I have just a couple of examples actually, let
00:33:20 --> 00:33:21:	me go back for a moment.
00:33:22 --> 00:33:27:	I'm highlighting one example from each of these last four
00:33:27 --> 00:33:31:	tool boxes to just give a better sense of what
00:33:31 --> 00:33:35:	can be achieved at the local level in terms of
00:33:35 --> 00:33:40:	better integrating water into land use policies.
00:33:41 --> 00:33:47:	So this first example is around water allocation policies.
00:33:47 --> 00:33:53:	This is an example from the city of Chandler, AZ.
00:33:53 --> 00:33:59:	In 2015, they adopted a water allocation policy because they
00:33:59 --> 00:34:04:	recognized that they did not have infinite water supply and
00:34:04 --> 00:34:09:	they wanted to ensure that the water that they had
00:34:09 --> 00:34:15:	in their portfolio was being directed towards uses that supported
00:34:15 --> 00:34:17:	their community values.
00:34:17 --> 00:34:23:	And so they developed a three tier allocation policy where
00:34:24 --> 00:34:29:	utilizing kind of a base allocation, you know of a
00:34:29 --> 00:34:33:	certain amount of projected water use.
00:34:33 --> 00:34:37:	If a new development fell into that tier, then you
00:34:38 --> 00:34:42:	know they would provide the water to that new development.
00:34:44 --> 00:34:47:	If the the water use of a new development was
00:34:48 --> 00:34:53:	going to exceed that base allocation, they would fall into
00:34:53 --> 00:34:53:	Tier 2.
00:34:53 --> 00:34:59:	Which if it is determined by the water resource management
00:35:00 --> 00:35:05:	strategy that the use of that water was in line
00:35:05 --> 00:35:11:	with the values and priorities of the community, then that
00:35:11 --> 00:35:17:	additional water would be provided as a quality of life
00:35:17 --> 00:35:18:	allocation.

00:35:19 --> 00:35:26:	And then the third tier is essentially, if that additional
00:35:26 --> 00:35:31:	needed water was not deemed to be in line with
00:35:31 --> 00:35:37:	the priorities of the community, then the the developer or
00:35:37 --> 00:35:42:	new user needs to purchase and bring water to the
00:35:42 --> 00:35:46:	city above that Tier 1 allocation.
00:35:47 --> 00:35:51:	And I think this is a really timely discussion because
00:35:52 --> 00:35:56:	just today there was or yesterday, I think it was
00:35:56 --> 00:36:01:	sometime this week, the the Colorado Sun published a really
00:36:01 --> 00:36:05:	great and in depth article about data centers.
00:36:05 --> 00:36:09:	And, you know, what they highlighted was not only do
00:36:10 --> 00:36:13:	they use a lot of energy, but they also use
00:36:13 --> 00:36:15:	a lot of water.
00:36:15 --> 00:36:20:	And so with the increase in the use of AI,
00:36:20 --> 00:36:26:	data centers are, you know, being built all over the
00:36:27 --> 00:36:27:	place.
00:36:27 --> 00:36:32:	And I think it's an important discussion that communities need
00:36:32 --> 00:36:36:	to have about whether they have any policies in place
00:36:36 --> 00:36:40:	about how they're allocating their water resources.
00:36:43 --> 00:36:47:	So then the next strategy that I want to highlight
00:36:48 --> 00:36:51:	is zoning for density and infill.
00:36:52 --> 00:36:58:	We know that multi family housing, you know, uses less
00:36:58 --> 00:37:03:	water kind of per capita than single family housing does.
00:37:04 --> 00:37:10:	We know that infill development it typically uses less water
00:37:10 --> 00:37:14:	because the the space was already irrigated.
00:37:14 --> 00:37:19:	If they're you're talking about adding an accessory dwelling unit
00:37:19 --> 00:37:24:	or converting something that was single family to duplex, you're
00:37:24 --> 00:37:29:	not adding a whole new water footprint in your community.
00:37:30 --> 00:37:33:	And so I wanted to share this example from the
00:37:34 --> 00:37:35:	San Francisco Bay Area.
00:37:36 --> 00:37:42:	They developed a a plan that highlighted the ways in
00:37:42 --> 00:37:50:	which the region can grow without increasing water demand.
00:37:50 --> 00:37:54:	And one of the main tenets of that study and
00:37:54 --> 00:38:01:	that plan was that they identified that through more compact
00:38:01 --> 00:38:07:	land use and some other improvements in water efficiency, the
00:38:07 --> 00:38:13:	Bay Area could add 2.1 million jobs, have 6.8 million
00:38:13 --> 00:38:18:	people and 2.2 million new homes by 2070 and still
00:38:18 --> 00:38:25:	offset all water use from that growth through those strategies.
00:38:26 --> 00:38:31:	And so I think it's important for local governments to
00:38:31 --> 00:38:38:	look at whether their zoning is overly restrictive and whether,

00:38:38 --> 00:38:43:	you know, single family zoned areas should be revised in
00:38:43 --> 00:38:49:	order to allow, you know, by right accessory dwelling units,
00:38:50 --> 00:38:55:	you know, increases in density to, you know, duplex or
00:38:55 --> 00:38:57:	multi family homes.
00:38:58 --> 00:39:03:	And that's increasingly relevant when we're looking at the affordable
00:39:04 --> 00:39:05:	housing prices.
00:39:05 --> 00:39:09:	This was in the New York Times this morning and
00:39:09 --> 00:39:14:	it really highlights the ways in which States and local
00:39:14 --> 00:39:20:	governments are trying to increase density and focus on infill
00:39:20 --> 00:39:21:	development.
00:39:24 --> 00:39:29:	Then I want to briefly mention a strategy that supports
00:39:29 --> 00:39:35:	watershed health and ecosystem services and this is a subdivision
00:39:35 --> 00:39:39:	strategy called cluster or conservation subdivision.
00:39:40 --> 00:39:46:	And enabling this in your subdivision code allows developers who
00:39:46 --> 00:39:52:	are building new subdivisions to reduce the lot sizes of
00:39:52 --> 00:39:59:	the residential development and cluster them in particular areas of
00:39:59 --> 00:40:04:	the site rather than spreading them out evenly.
00:40:04 --> 00:40:08:	And what that does is it allows areas to be
00:40:08 --> 00:40:12:	undisturbed and preserved as open space.
00:40:13 --> 00:40:15:	And I think one of the, you know.
00:40:16 --> 00:40:20:	Big benefits there is you know, not only are you
00:40:20 --> 00:40:25:	ending up with smaller lot sizes, which then you know
00:40:25 --> 00:40:31:	require less landscaping, which reduces outdoor water use, but you're
00:40:31 --> 00:40:38:	also preserving the outdoor space and enabling traditional drainage ways
00:40:38 --> 00:40:39:	to still exist.
00:40:40 --> 00:40:44:	And here's an example of Highlands Ranch Co where they
00:40:44 --> 00:40:49:	clustered their development in such a way that it preserved
00:40:49 --> 00:40:54:	the drainage ways, which has the added benefit of also
00:40:54 --> 00:41:00:	providing recreational opportunities for the residents to kind of use
00:41:00 --> 00:41:04:	paths and natural areas throughout the community.
00:41:06 --> 00:41:10:	The last one that I will mention here is a
00:41:10 --> 00:41:17:	policy that requires existing development to retrofit their fixtures and
00:41:17 --> 00:41:22:	appliances when the when the property is sold.
00:41:22 --> 00:41:27:	And so this is something that the city of San
00:41:27 --> 00:41:32:	Diego enacted quite a long time ago in 1997 before
00:41:32 --> 00:41:39:	the passage of California legislation, SB4O7 that really

	kicked in
00:41:39 --> 00:41:41:	starting in 2014.
00:41:41 --> 00:41:47:	And it essentially just requires that, you know, toilets, shower
00:41:47 --> 00:41:54:	heads, faucets, etcetera, be replaced with water efficient fixtures before
00:41:54 --> 00:41:56:	a change of ownership.
00:41:56 --> 00:42:01:	And so that is something that you know, communities can
00:42:01 --> 00:42:07:	consider enacting and it really addresses that existing development.
00:42:08 --> 00:42:13:	I think by some accounts, the San Diego ordinance has
00:42:13 --> 00:42:18:	resulted in over 300,000 retrofits of older toilets and urinals
00:42:18 --> 00:42:23:	and has resulted in savings of over 10 million gallons
00:42:23 --> 00:42:24:	of water per day.
00:42:24 --> 00:42:29:	So can be an effective way of tackling the existing
00:42:29 --> 00:42:33:	development and it also saves new homeowners money.
00:42:33 --> 00:42:39:	And Andrew was mentioning the the water demand calculator.
00:42:39 --> 00:42:45:	This was something, you know, pulled from epa.gov water sense
00:42:45 --> 00:42:49:	that it can really save hundreds of dollars in in
00:42:49 --> 00:42:51:	reduced water.
00:42:51 --> 00:42:51:	Costs.
00:42:53 --> 00:42:55:	So just a couple of other quick things.
00:42:55 --> 00:43:01:	If you are more interested in learning about local policies
00:43:01 --> 00:43:07:	for integrating water and land use planning, I have 3
00:43:07 --> 00:43:09:	publications for you.
00:43:09 --> 00:43:13:	One is ours, it's our Water and land use Nexus
00:43:13 --> 00:43:18:	guidebook, and the other is the Urban Land Institute Water
00:43:18 --> 00:43:23:	wise publication at Marianne, authored a couple of years ago.
00:43:24 --> 00:43:29:	And the third is a pretty detailed guidebook for local
00:43:29 --> 00:43:34:	planners that really dives into some of the strategies that
00:43:34 --> 00:43:39:	I briefly highlighted today and that was put out by
00:43:39 --> 00:43:44:	Western resource advocates and the Land Use Law Center at
00:43:44 --> 00:43:45:	Pace Law School.
00:43:45 --> 00:43:47:	So I'll pop those into the chat.
00:43:49 --> 00:43:55:	If you are interested in exploring local policies around water
00:43:55 --> 00:44:00:	wise development and you are affiliated with a community in
00:44:00 --> 00:44:06:	Colorado, Arizona, California or along the US Mexico border, I
00:44:06 --> 00:44:11:	would encourage you to get in touch with us because
00:44:11 --> 00:44:16:	we do offer these Growing Water Smart workshops and will
00:44:16 --> 00:44:21:	be in the coming months in several different states.

00:44:21 --> 00:44:25:	It is no cost to participating teams.
00:44:25 --> 00:44:29:	You just need to apply and put together a team
00:44:29 --> 00:44:33:	of planners and water providers and elected officials to come
00:44:34 --> 00:44:37:	and talk for several days around what what are the
00:44:38 --> 00:44:42:	best strategies at the local level to address your water
00:44:42 --> 00:44:43:	challenges.
00:44:45 --> 00:44:49:	And I also encourage folks on the call who maybe
00:44:49 --> 00:44:55:	have had some successes in integrating water into various land
00:44:56 --> 00:44:59:	use policies to showcase your successes.
00:45:00 --> 00:45:03:	And if you happen to be in Colorado, you can
00:45:03 --> 00:45:08:	nominate your community for an American Planning Association Colorado Award
00:45:08 --> 00:45:10:	for Growing Water Smart.
00:45:12 --> 00:45:17:	And it's exciting that Colorado Springs is here because they
00:45:17 --> 00:45:21:	were a recipient of this award last year.
00:45:21 --> 00:45:24:	So they'll be sharing what it is that they did
00:45:24 --> 00:45:26:	in their community.
00:45:26 --> 00:45:28:	And I will leave it at that so that we
00:45:28 --> 00:45:30:	can get to their presentation.
00:45:30 --> 00:45:31:	So thank you.
00:45:33 --> 00:45:35:	Thank you so much, Waverly.
00:45:35 --> 00:45:36:	Excellent presentation.
00:45:37 --> 00:45:40:	We have time for maybe a couple questions before we
00:45:40 --> 00:45:42:	go on to our Colorado Springs presenters.
00:45:42 --> 00:45:45:	Does anyone want to unmute and ask a quick question?
00:45:51 --> 00:45:54:	And if I don't see any now, please put them
00:45:54 --> 00:45:56:	in the chat as you think about them and we
00:45:56 --> 00:45:57:	really can respond.
00:46:01 --> 00:46:02:	All right, I'm not seeing any right now.
00:46:02 --> 00:46:05:	So we're going to move on to our Colorado Springs
00:46:05 --> 00:46:10:	award winners, Morgan Hester and Scott Winter with Colorado Springs.
00:46:16 --> 00:46:18:	I could not find the unmute button.
00:46:18 --> 00:46:21:	Hello everyone, can y'all see my screen before I start
00:46:21 --> 00:46:23:	going through the presentation?
00:46:24 --> 00:46:27:	Yeah, you, Morgan, can you go into full screen mode?
00:46:28 --> 00:46:29:	Yes, yeah.
00:46:29 --> 00:46:31:	But I just want to make sure that y'all could
00:46:31 --> 00:46:32:	see it and then looking good.
00:46:32 --> 00:46:33:	OK, great.
00:46:33 --> 00:46:34:	Thank you.

00:46:35 --> 00:46:38:	So loved Waverly's presentation.
00:46:39 --> 00:46:40:	We do work together.
00:46:40 --> 00:46:42:	So disclaimer on that.
00:46:42 --> 00:46:45:	And as she mentioned, we did win an award last
00:46:45 --> 00:46:50:	year for our approach to water conservation and landscaping, which
00:46:50 --> 00:46:53:	Scott and I will go over today.
00:46:53 --> 00:46:56:	So he and I will be using the same presentation
00:46:56 --> 00:46:57:	together.
00:46:57 --> 00:47:00:	We've split it in half and hopefully, no, I'm just
00:47:00 --> 00:47:01:	kidding.
00:47:01 --> 00:47:03:	I, I will be very mindful of how long I
00:47:03 --> 00:47:06:	talked about this because I could go on for forever,
00:47:06 --> 00:47:09:	But just to introduce myself, my name is Morgan Hester.
00:47:09 --> 00:47:12:	I am the Long range planning Division manager for the
00:47:12 --> 00:47:16:	City of Colorado Springs and I was the project manager
00:47:16 --> 00:47:20:	for the Retool Cos project, which resulted in our now
00:47:20 --> 00:47:24:	adopted Unified Development Code or the UDC, which has some
00:47:24 --> 00:47:27:	measures in place that we will go over in our
00:47:27 --> 00:47:28:	presentation today.
00:47:29 --> 00:47:34:	So an introduction for what Colorado Springs is, recognizing that
00:47:34 --> 00:47:37:	maybe not everyone is familiar with our jurisdiction.
00:47:38 --> 00:47:41:	We are larger than 200 square miles.
00:47:42 --> 00:47:45:	We're also nestled next to a mountain range.
00:47:45 --> 00:47:49:	So Pikes Peak is located within the Springs area, high
00:47:49 --> 00:47:54:	elevation semi area, arid Prairie and foothills, which read that
00:47:55 --> 00:47:57:	to say, doesn't rain here much.
00:47:57 --> 00:48:02:	Last summer it was pretty wet, but it's not typical
00:48:02 --> 00:48:05:	for us to have super rainy seasons.
00:48:06 --> 00:48:09:	Water is a finite resource, and that's something that we've
00:48:10 --> 00:48:13:	been extremely mindful of and also whenever we were working
00:48:13 --> 00:48:17:	through our code rewrite, over half a million residents and
00:48:17 --> 00:48:21:	for where they live, a little over 200,000 us within
00:48:21 --> 00:48:22:	our jurisdiction.
00:48:22 --> 00:48:26:	We do have 5 military installations, so a lot of
00:48:26 --> 00:48:28:	our population is somewhat transient.
00:48:28 --> 00:48:31:	Whenever orders come up, then they have to move.
00:48:31 --> 00:48:34:	But that is a crucial part of our economy and
00:48:35 --> 00:48:36:	the makeup of our region.
00:48:38 --> 00:48:43:	Within the city limits, we have about 125,000 acres and

00:48:44 --> 00:48:48:	to 27,000 of the acres of that are undeveloped.
00:48:48 --> 00:48:52:	So we do have some potential for infill within our
00:48:52 --> 00:48:56:	city limits and we've had significant population growth in the
00:48:57 --> 00:49:00:	past and we're also looking to that in the future.
00:49:00 --> 00:49:04:	So that did also play a huge part in our
00:49:04 --> 00:49:06:	process of updating our code.
00:49:07 --> 00:49:10:	And so with me saying that, what does that really
00:49:10 --> 00:49:10:	mean?
00:49:11 --> 00:49:14:	So the Retool Cos project was the rewrite of our
00:49:14 --> 00:49:19:	now former zoning and subdivision ordinance plants US is our
00:49:19 --> 00:49:23:	comprehensive plan, which I say is kind of the umbrella.
00:49:23 --> 00:49:25:	It guides what we do within the city.
00:49:25 --> 00:49:29:	So not just a planning document, but there are other
00:49:29 --> 00:49:31:	plans that are reliant on that.
00:49:31 --> 00:49:35:	So Connect Cos is the transportation plans, that's public works
00:49:35 --> 00:49:40:	Home Cos, that's housing attainability and affordability, which was adopted
00:49:40 --> 00:49:43:	by our community development group.
00:49:43 --> 00:49:47:	Smart Cos is smart cities, that's through innovation Retool, that's
00:49:47 --> 00:49:49:	the code rewrite project.
00:49:49 --> 00:49:52:	We have Annex Cos, which is currently in the works
00:49:52 --> 00:49:57:	and our neighborhood planning program, but today's presentation is focused
00:49:57 --> 00:49:58:	on the retool project.
00:49:58 --> 00:50:01:	But just wanted to mention that why we did it.
00:50:02 --> 00:50:05:	Essentially our comprehensive plan gave the direction for these six
00:50:05 --> 00:50:08:	projects that are on the screen of recognizing that there
00:50:08 --> 00:50:11:	was a need for a total overhaul of our zoning
00:50:11 --> 00:50:11:	code.
00:50:12 --> 00:50:13:	It was extremely outdated.
00:50:13 --> 00:50:17:	We had gone through a process for several decades of
00:50:17 --> 00:50:20:	amending our codes and recognizing a huge factor of water
00:50:20 --> 00:50:22:	being a finite resource.
00:50:22 --> 00:50:26:	We saw as an opportunity to incorporate some really significant
00:50:26 --> 00:50:27:	and positive change.
00:50:28 --> 00:50:32:	Our code was adopted last year Valentine's Day and it
00:50:32 --> 00:50:34:	went into effect in June.
00:50:34 --> 00:50:37:	So we've been using the code since then.
00:50:37 --> 00:50:40:	And Scott and I will talk more about what that

00:50:40 --> 00:50:41:	looks like.
00:50:41 --> 00:50:44:	So the focus of the rewrite, I'm not going to
00:50:44 --> 00:50:48:	go into all of the details today, will largely focus
00:50:48 --> 00:50:53:	on the landscape component as well as new zone districts.
00:50:53 --> 00:50:56:	So I'll focus more on the land use and zoning
00:50:56 --> 00:50:59:	side and Scott will address the landscape changes.
00:51:00 --> 00:51:05:	We, we really made a huge effort to make significant
00:51:05 --> 00:51:09:	change with our existing residential zone districts.
00:51:10 --> 00:51:14:	And with that, we've really touched on this in her
00:51:14 --> 00:51:20:	presentation of the need for including more permitted uses within
00:51:20 --> 00:51:21:	residential.
00:51:21 --> 00:51:26:	So from a density standpoint, infrastructure, being mindful of how
00:51:26 --> 00:51:31:	developments are occurring and what the character of them are,
00:51:31 --> 00:51:35:	I'm hesitating before I go to this next slide 'cause
00:51:35 --> 00:51:38:	I kind of want to build this up a little
00:51:38 --> 00:51:41:	more, but we made the attempt to include more uses
00:51:42 --> 00:51:44:	within what was currently in existence.
00:51:44 --> 00:51:47:	And when I say currently, I mean three years ago,
00:51:47 --> 00:51:50:	two years ago, one year ago when this was still
00:51:50 --> 00:51:53:	in the works, direction from our City Council was to
00:51:53 --> 00:51:56:	not make any changes to the existing residential districts.
00:51:57 --> 00:51:59:	So what was the result on the left side of
00:51:59 --> 00:52:00:	the screen?
00:52:00 --> 00:52:03:	That was all of the districts that were in place
00:52:03 --> 00:52:07:	and we essentially carried them all forward, but we created
00:52:07 --> 00:52:08:	3 new zone districts.
00:52:08 --> 00:52:12:	And that is a significant change which I'll go over
00:52:12 --> 00:52:14:	a little more later in this presentation.
00:52:16 --> 00:52:19:	But what we have in place are essentially retired districts
00:52:20 --> 00:52:23:	that are still functioning as they were whenever they were
00:52:23 --> 00:52:27:	initially adopted, primarily one or two permitted uses.
00:52:27 --> 00:52:32:	So it's maybe you know, single family allows single family.
00:52:32 --> 00:52:35:	And then as you go up in density, it might
00:52:35 --> 00:52:39:	be single family and duplex or single family duplex multifamily.
00:52:39 --> 00:52:42:	And that just is something that we've recognized was not
00:52:43 --> 00:52:45:	working with our commercial districts.
00:52:45 --> 00:52:46:	We made a huge change.
00:52:47 --> 00:52:50:	The commercial districts were all converted to mixed-use districts.

00:52:51 --> 00:52:54:	So now they all permit residential as a component.
00:52:54 --> 00:52:57:	There's not a requirement for a certain percentage.
00:52:58 --> 00:53:00:	If someone wants to do residential, they can or they
00:53:00 --> 00:53:02:	can do all commercial.
00:53:02 --> 00:53:03:	It's completely up to the developer.
00:53:03 --> 00:53:08:	But wanting to provide additional options for more housing and
00:53:08 --> 00:53:12:	you know, an opportunity for additional density.
00:53:13 --> 00:53:17:	So with the new zone districts I mentioned, we created
00:53:17 --> 00:53:19:	the flex districts.
00:53:19 --> 00:53:25:	So having the three different districts, I'll go over what
00:53:25 --> 00:53:27:	the difference for them all is.
00:53:27 --> 00:53:31:	But we wanted to have an opportunity for applicants or
00:53:31 --> 00:53:32:	developers.
00:53:33 --> 00:53:36:	They wanted to do a residential development as long as
00:53:36 --> 00:53:39:	the density requirement is met, they could do whatever mix
00:53:40 --> 00:53:40:	made sense.
00:53:40 --> 00:53:44:	So if it's something that maybe one block face has
00:53:44 --> 00:53:47:	all single family, the end cap is duplex or maybe
00:53:47 --> 00:53:51:	a low density multifamily, they could do that again as
00:53:51 --> 00:53:53:	long as the density is met.
00:53:53 --> 00:53:56:	So there wasn't a limitation to the permitted uses.
00:53:56 --> 00:54:01:	This also reduced the lot size.
00:54:01 --> 00:54:06:	So with our former residential zone districts, which again mentioned
00:54:06 --> 00:54:10:	that they were carried over the quote highest density single
00:54:11 --> 00:54:13:	family district was 6000 square feet.
00:54:14 --> 00:54:17:	We had a lot of planned unit developments popping up
00:54:17 --> 00:54:21:	because it was something that the market was just people
00:54:21 --> 00:54:24:	wanted smaller lots and there was a desire to have
00:54:24 --> 00:54:25:	more dense development.
00:54:26 --> 00:54:30:	So we essentially established within a hard zone district the
00:54:30 --> 00:54:33:	lower lot size requirements.
00:54:33 --> 00:54:37:	So with those flex districts, one of the districts I
00:54:37 --> 00:54:40:	know is, you know, the, the minimum is like 2000
00:54:40 --> 00:54:41:	square feet.
00:54:41 --> 00:54:47:	So encouraging more density, but recognizing the amount of infrastructure
00:54:47 --> 00:54:50:	that it requires for new developments.
00:54:50 --> 00:54:54:	And then I mentioned with the mixed-use districts, the conversion
00:54:54 --> 00:54:57:	of commercial districts to mixed-use so that there could be
00:54:57 --> 00:54:58:	a housing component.

00:54:59 --> 00:55:03:	This is something that City Council was in support of
00:55:03 --> 00:55:07:	recognizing that if a use is permitted, the amount of
00:55:07 --> 00:55:11:	time and financial commitment of an applicant to rezone a
00:55:11 --> 00:55:15:	property or convert it in some way would be reduced
00:55:15 --> 00:55:18:	by just including it as a permitted use.
00:55:19 --> 00:55:22:	So expanding a little more on the flex districts, this
00:55:22 --> 00:55:25:	graphic is just a general representation of what a flex
00:55:25 --> 00:55:27:	district could look like.
00:55:28 --> 00:55:33:	Wanting to move away from the more Euclidean type zoning,
00:55:33 --> 00:55:38:	so the separation of specific use types and encouraging more
00:55:38 --> 00:55:40:	creative development.
00:55:40 --> 00:55:44:	There's a less lesser requirement for new infrastructure.
00:55:44 --> 00:55:47:	This is something that can be utilized for infill projects.
00:55:48 --> 00:55:51:	Really wanting to encourage this type of development.
00:55:51 --> 00:55:54:	I continue to use the word opportunity and that's extremely
00:55:54 --> 00:55:57:	intentional because this is not a mandate for anybody.
00:55:57 --> 00:55:58:	It's it's an option.
00:55:58 --> 00:56:02:	So we've had many of our larger developers worked with
00:56:02 --> 00:56:05:	us on the zoning code rewrite and we're in huge
00:56:05 --> 00:56:08:	support of this because they were having to go through
00:56:08 --> 00:56:12:	and doing the PUD, which is now PDZ planned development
00:56:12 --> 00:56:12:	zone.
00:56:13 --> 00:56:15:	I like to call the create your own zone district.
00:56:15 --> 00:56:19:	So having to go through rezone properties because they needed
00:56:19 --> 00:56:23:	something that was a smaller lot more housing types and
00:56:23 --> 00:56:25:	a mix of what that looked like.
00:56:25 --> 00:56:27:	So this is now something that they don't have to
00:56:28 --> 00:56:30:	go through rezoning request and they can come in and
00:56:30 --> 00:56:33:	just say I'm going to do the zoning and everything
00:56:33 --> 00:56:36:	meets the dimensional standards and they should be good to
00:56:36 --> 00:56:36:	go.
00:56:39 --> 00:56:42:	Again mentioned with the mixed-use districts that conversion.
00:56:42 --> 00:56:46:	This also is focused on the need for less infrastructure.
00:56:46 --> 00:56:51:	We have some properties, vacant commercial properties, where there have
00:56:51 --> 00:56:56:	been many requests that have come in, ideas of wanting
00:56:56 --> 00:57:00:	to use, let's say a former Sam's Club and converting
00:57:00 --> 00:57:01:	that to housing.
00:57:02 --> 00:57:07:	Recognizing that the infrastructure is already in existence, wanting to
00:57:07 --> 00:57:12:	essentially retrofit a property to include additional housing,

	but knowing
00:57:12 --> 00:57:16:	that there is this need for housing, wanting to be
00:57:16 --> 00:57:18:	more creative, utilizing properties.
00:57:18 --> 00:57:23:	There's not an additional pressure on our systems that we
00:57:23 --> 00:57:24:	already have.
00:57:26 --> 00:57:28:	Again, just as an opportunity.
00:57:28 --> 00:57:31:	But this is something that has been met with a
00:57:31 --> 00:57:36:	lot of excitement and has encouraged more creative developments within
00:57:36 --> 00:57:41:	Colorado Springs and we have some additional housing options.
00:57:41 --> 00:57:45:	So still looking at it from the perspective of different
00:57:45 --> 00:57:51:	housing types, smaller lots opportunities for infill, we have added
00:57:51 --> 00:57:53:	in additional use types.
00:57:53 --> 00:57:57:	So Tiny Homes is a new addition with our code.
00:57:58 --> 00:58:00:	We do have some developments in place.
00:58:00 --> 00:58:02:	Of course, there was nothing in the code before.
00:58:02 --> 00:58:05:	So it was my favorite create your own zone district.
00:58:05 --> 00:58:08:	They were approved, but this is something that now it
00:58:08 --> 00:58:11:	is found in our use table as a permitted use,
00:58:11 --> 00:58:15:	which is extremely beneficial again from the time and financial
00:58:15 --> 00:58:19:	commitment standpoint for an applicant and have that defined in
00:58:19 --> 00:58:22:	certain zone districts of where it would be permitted to
00:58:22 --> 00:58:26:	meet with the character of what that development type would
00:58:26 --> 00:58:27:	look like.
00:58:27 --> 00:58:33:	We've also included or expanded upon campgrounds and RV usage.
00:58:33 --> 00:58:37:	So what we had before was, I don't want to
00:58:37 --> 00:58:41:	say like an outright exclusion of that use, but it
00:58:41 --> 00:58:46:	was more we have pockets within the springs, enclaves of
00:58:46 --> 00:58:50:	county property within the city that have not yet been
00:58:51 --> 00:58:51:	annexed.
00:58:52 --> 00:58:56:	And it being something that needing to provide an additional
00:58:56 --> 00:59:00:	use for various housing types that are not quote UN
00:59:00 --> 00:59:04:	quote traditional as one may think, but wanting to have
00:59:05 --> 00:59:09:	that inclusion because it's still an opportunity for housing AD
00:59:09 --> 00:59:10:	us.
00:59:10 --> 00:59:11:	We've really brought this up.
00:59:11 --> 00:59:14:	This is something that was adopted prior to the new
00:59:14 --> 00:59:14:	code.

00:59:15 --> 00:59:18:	So the inclusion and allowance for AD us within various
00:59:18 --> 00:59:20:	residential zone districts.
00:59:21 --> 00:59:23:	So that is the end of me and Scott also
00:59:23 --> 00:59:27:	clicked through the slides for you, but I'm going to
00:59:27 --> 00:59:28:	mute myself now.
00:59:29 --> 00:59:29:	Great.
00:59:29 --> 00:59:29:	Thank you.
00:59:30 --> 00:59:34:	So I'm gonna talk about the utilities perspective on this
00:59:34 --> 00:59:35:	issue.
00:59:36 --> 00:59:40:	To clarify, the city of Colorado Springs and Colorado Springs
00:59:40 --> 00:59:44:	utilities are two separate organizations, which it historically has led
00:59:45 --> 00:59:48:	to a lot of siloing and some disconnects between, you
00:59:48 --> 00:59:51:	know, what we do on the utility side and what
00:59:51 --> 00:59:52:	the city is doing.
00:59:54 --> 00:59:56:	So we've done a lot of work in the last
00:59:56 --> 00:59:58:	couple of years to make sure that we're meeting on
00:59:59 --> 01:00:01:	a consistent basis and and working together on all these
01:00:01 --> 01:00:02:	issues.
01:00:03 --> 01:00:04:	So we are a Forest Service utility.
01:00:04 --> 01:00:06:	We do still answer to our City Council.
01:00:06 --> 01:00:10:	So we have kind of the same, the same leadership
01:00:10 --> 01:00:11:	but separate organization.
01:00:12 --> 01:00:15:	We do provide water, wastewater, electric and natural gas service.
01:00:15 --> 01:00:19:	So we provide all the utilities for the city.
01:00:20 --> 01:00:22:	We get most of our water, about 70% actually from
01:00:23 --> 01:00:24:	the Colorado River.
01:00:24 --> 01:00:28:	So we we recognize that the primary source of our
01:00:28 --> 01:00:32:	supplies is, you know, under threat in many ways from
01:00:32 --> 01:00:37:	growth and changing climate and that sort of thing.
01:00:37 --> 01:00:40:	So, so we've been doing a lot of conservation over
01:00:40 --> 01:00:43:	the last, you know, 25 years or so and we've
01:00:43 --> 01:00:47:	made a lot of progress, but we're still serving about
01:00:47 --> 01:00:51:	24 billion gallons of water a year on the potable
01:00:51 --> 01:00:55:	side, about 10% more than that on the reclaimed water
01:00:55 --> 01:00:55:	side.
01:00:56 --> 01:00:59:	So we've got a lot of demand, but you can
01:00:59 --> 01:01:03:	go ahead and go to the next slide, Morgan, if
01:01:03 --> 01:01:04:	we can do that.
01:01:06 --> 01:01:06:	All right.
01:01:06 --> 01:01:09:	So we we've still got a lot of water demand,

01:01:09 --> 01:01:12:	but we we have conserved A tremendous amount.
01:01:12 --> 01:01:16:	So our population has doubled since about 1985, but our
01:01:16 --> 01:01:21:	demands overall, our overall sales have not changed since 1985.
01:01:21 --> 01:01:23:	And I think that's a a similar story can be
01:01:23 --> 01:01:26:	told in many cities, particularly in the West.
01:01:26 --> 01:01:30:	But you know that's the the current state of things
01:01:30 --> 01:01:34:	here is a tremendous increase in efficiency over the last
01:01:34 --> 01:01:35:	25 years or so.
01:01:36 --> 01:01:40:	Residential sales per customer are down about 40% since 2000
01:01:40 --> 01:01:43:	and non residential is down about 35%.
01:01:43 --> 01:01:46:	So we, we have done a lot of conservation both
01:01:46 --> 01:01:47:	indoor and outdoor.
01:01:47 --> 01:01:54:	So landscape irrigation is is down nearly 50% essentially since
01:01:54 --> 01:01:54:	2000.
01:01:54 --> 01:01:57:	So most of the conservation or the majority of the
01:01:58 --> 01:02:01:	conservation has been done in the landscape, but we've also
01:02:02 --> 01:02:05:	really seen big changes in in indoor uses as well.
01:02:06 --> 01:02:09:	So conservation, we, we like to take a lot of
01:02:09 --> 01:02:12:	credit for that when we're talking to groups like this.
01:02:12 --> 01:02:15:	But when our revenue folks come calling, we we don't
01:02:15 --> 01:02:15:	answer.
01:02:16 --> 01:02:21:	So you know, this is multifaceted.
01:02:22 --> 01:02:25:	We've done a lot of conservation, but we've had multiple
01:02:25 --> 01:02:28:	droughts and water shortages since 2000.
01:02:28 --> 01:02:31:	And those biggest drops you see on the chart on
01:02:31 --> 01:02:36:	the right there, especially that blue line which represents our
01:02:36 --> 01:02:41:	residential use per customer, those two steepest drops coincide with
01:02:41 --> 01:02:44:	the water shortages that we've had.
01:02:44 --> 01:02:48:	And with each of those we did not see any
01:02:48 --> 01:02:52:	bounce back at all to previous usage rates.
01:02:52 --> 01:02:56:	So the droughts are a big, big factor and increasing
01:02:56 --> 01:02:57:	prices as well.
01:02:57 --> 01:03:02:	We've we've built one large water project which led to
01:03:03 --> 01:03:08:	a lot of increases in pricing along that, you know
01:03:08 --> 01:03:10:	the last 1520 years.
01:03:10 --> 01:03:14:	And so we are seeing big impacts from that as
01:03:14 --> 01:03:14:	well.
01:03:15 --> 01:03:16:	So go ahead and go to the next one, Morgan.
01:03:19 --> 01:03:24:	Counter to that, we are seeing significant increases in use

01:03:24 --> 01:03:26:	in new construction.
01:03:26 --> 01:03:30:	So sort of counterintuitive considering a lot of the efficiency
01:03:30 --> 01:03:33:	standards and things we've seen addressing indoor use.
01:03:34 --> 01:03:39:	But the outdoor use component, because of the ubiquity of
01:03:39 --> 01:03:46:	irrigation systems now since about the early 80s, irrigation rates
01:03:46 --> 01:03:52:	and outdoor use generally has been increasing in new construction.
01:03:52 --> 01:03:57:	So homes built in 2020 in general are using quite
01:03:57 --> 01:04:00:	a bit more than homes built in 1970.
01:04:01 --> 01:04:04:	And so that trend has continued.
01:04:04 --> 01:04:08:	And that's really one of the reasons why we wanted
01:04:08 --> 01:04:12:	to address the new construction side of things.
01:04:12 --> 01:04:16:	Most of our conservation has been related to existing construction
01:04:16 --> 01:04:19:	and we needed to do more to address the new
01:04:19 --> 01:04:23:	construction side of things and and this is indicative of
01:04:23 --> 01:04:23:	that need.
01:04:24 --> 01:04:24:	Go ahead.
01:04:27 --> 01:04:30:	So our 2022 water efficiency plan in the state of
01:04:30 --> 01:04:34:	Colorado, we've we've got to update our water efficiency plans
01:04:34 --> 01:04:35:	every seven years.
01:04:35 --> 01:04:40:	And so this most recent plan set a target that
01:04:40 --> 01:04:45:	has been even modified since it was published because of
01:04:46 --> 01:04:48:	Colorado River issues.
01:04:48 --> 01:04:52:	We're looking at about 1.9 billion gallons of savings that
01:04:52 --> 01:04:55:	we're looking to achieve by 2050.
01:04:56 --> 01:05:00:	And a portion of that has to come from, from
01:05:00 --> 01:05:03:	landscaping in new construction.
01:05:04 --> 01:05:08:	The, the pie chart on the right shows retool, which
01:05:08 --> 01:05:12:	is the, the project that led to the, the new
01:05:12 --> 01:05:15:	UDC Uniform Unified Development Code.
01:05:15 --> 01:05:19:	And that portion, that's the portion that we're gonna, is
01:05:19 --> 01:05:23:	gonna contribute to the new construction side of things.
01:05:23 --> 01:05:27:	So about 300 million gallons from new construction codes, ordinances
01:05:27 --> 01:05:28:	and incentives.
01:05:28 --> 01:05:31:	So the, the UDC is really the the code side
01:05:31 --> 01:05:32:	of it.
01:05:32 --> 01:05:37:	And ordinance, there's a landscape ordinance portion both addressing residential
01:05:37 --> 01:05:39:	and commercial development.

01:05:40 --> 01:05:45:	And with some of the information we're collecting in this
01:05:45 --> 01:05:50:	process, we're going to feed that in to increase our
01:05:50 --> 01:05:55:	our ability to incentivize changes in addition to what the
01:05:56 --> 01:05:57:	code provides.
01:05:57 --> 01:06:02:	So you know, things like development, what we call development
01:06:02 --> 01:06:06:	charges, those are, are tap fee incentives.
01:06:06 --> 01:06:08:	We don't currently have incentives for tap fees.
01:06:09 --> 01:06:13:	Some of the data we're collecting in this process associated
01:06:13 --> 01:06:16:	with the the new code will allow us to better
01:06:17 --> 01:06:22:	incentivize those tap fees and provide some additional incentives and
01:06:22 --> 01:06:23:	savings for us.
01:06:24 --> 01:06:29:	About 200 of the 300 million gallons of savings we
01:06:29 --> 01:06:34:	anticipate from new construction will be associated with the the
01:06:34 --> 01:06:35:	UDC though.
01:06:35 --> 01:06:39:	So, so some of the things that we're doing are
01:06:40 --> 01:06:42:	are going to be yet to come.
01:06:42 --> 01:06:44:	So go ahead to the next slide.
01:06:46 --> 01:06:46:	All right.
01:06:46 --> 01:06:52:	So the data collection portion of this, so in order
01:06:52 --> 01:06:56:	to ensure that the code is being met in new
01:06:56 --> 01:07:03:	construction, we've developed standards for turf can be no more
01:07:03 --> 01:07:09:	than 25% of both commercial and residential landscapes.
01:07:09 --> 01:07:14:	Now in the past, commercial landscapes could be as much
01:07:14 --> 01:07:17:	as 40% turf grass and we did not have any
01:07:17 --> 01:07:20:	standards for residential landscapes.
01:07:20 --> 01:07:24:	So those did not have any any limitations at all.
01:07:24 --> 01:07:27:	So, so now we have a 25% limit.
01:07:28 --> 01:07:31:	I know some cities have have gone beyond the 25%
01:07:31 --> 01:07:35:	in recent years, but in Colorado Springs, 25% was as
01:07:35 --> 01:07:37:	far as we could go.
01:07:39 --> 01:07:44:	In order to ensure that that's occurring, we've built a
01:07:44 --> 01:07:49:	tool that developers use to input the landscape composition of
01:07:49 --> 01:07:53:	their developments into this into this tool.
01:07:53 --> 01:07:59:	And they're also providing irrigation type and some information about
01:07:59 --> 01:08:04:	how they anticipate those areas being irrigated.
01:08:04 --> 01:08:08:	So what we're seeing is a lot of native grass
01:08:08 --> 01:08:14:	in these areas and native grass historically has actually been

01:08:14 --> 01:08:18:	very often irrigated like turf grass.
01:08:18 --> 01:08:21:	And so we want to make sure that where native
01:08:21 --> 01:08:26:	grass is being specified, we understand how they anticipate that
01:08:26 --> 01:08:30:	being irrigated and so that we can estimate some water
01:08:30 --> 01:08:31:	demand from that.
01:08:32 --> 01:08:35:	Essentially what we end up with in this process is
01:08:35 --> 01:08:40:	a total irrigation budget for each project and that allows
01:08:40 --> 01:08:44:	us to understand the impact of the code itself, but
01:08:44 --> 01:08:48:	also to anticipate future water, water needs that we can
01:08:48 --> 01:08:51:	tie to some other future efforts.
01:08:51 --> 01:08:54:	So we could do some ground truthing with this as
01:08:55 --> 01:08:55:	well.
01:08:56 --> 01:09:00:	And when with the the customer, the ultimate utility customer
01:09:00 --> 01:09:05:	occupies the site, we can actually compare their, their consumption
01:09:05 --> 01:09:07:	to what was planned on the site.
01:09:07 --> 01:09:11:	So we can figure out if we need some additional
01:09:11 --> 01:09:16:	programming to ensure that that the the demands meet the
01:09:16 --> 01:09:19:	actual design of the site.
01:09:19 --> 01:09:22:	So budget based rates are are one way of of
01:09:22 --> 01:09:25:	doing that and we are slowly moving toward budget based
01:09:25 --> 01:09:26:	rates as well.
01:09:26 --> 01:09:28:	So go ahead to the next slide.
01:09:31 --> 01:09:34:	So the data we've collected so far sort of breaks
01:09:34 --> 01:09:37:	down as you see in this chart.
01:09:38 --> 01:09:41:	Prior to the code going into effect, we had collected
01:09:41 --> 01:09:46:	several years of data for development plans going back to
01:09:46 --> 01:09:46:	about 2016.
01:09:47 --> 01:09:52:	And the baseline was about 17% of the irrigable area
01:09:52 --> 01:09:55:	was going in as cool season turf grass.
01:09:55 --> 01:09:59:	And what we're seeing since the code went into effect
01:09:59 --> 01:10:01:	last summer, it was about 12% turf grass.
01:10:02 --> 01:10:04:	And the assumption that we had made prior to to
01:10:04 --> 01:10:08:	the implementation was that we could get it down to
01:10:08 --> 01:10:09:	about 14% conservatively.
01:10:10 --> 01:10:14:	And maybe further what we're seeing so far is 12%
01:10:14 --> 01:10:18:	and we're seeing a lot of a lot of developments
01:10:18 --> 01:10:21:	since the code went into effect.
01:10:21 --> 01:10:24:	You know some of the some of these numbers are
01:10:24 --> 01:10:29:	including some developments that had started prior to the new
01:10:29 --> 01:10:31:	code going into effect.

01:10:31 --> 01:10:34:	We're seeing a lot of developments with no turf press
01:10:34 --> 01:10:34:	at all.
01:10:34 --> 01:10:37:	So, so it is it is having an effect so
01:10:37 --> 01:10:40:	far and I think that will expand.
01:10:40 --> 01:10:43:	Go ahead to the next one.
01:10:44 --> 01:10:45:	I think that's it.
01:10:47 --> 01:10:50:	Thank you, Marvin and Scott, if you don't mind stopping
01:10:50 --> 01:10:53:	sharing, we'll open it up to a couple questions before
01:10:53 --> 01:10:55:	we move on to the group discussion.
01:10:59 --> 01:11:01:	Does anyone have any questions?
01:11:06 --> 01:11:07:	All right.
01:11:07 --> 01:11:09:	Well, if you think of something, please put it in
01:11:09 --> 01:11:11:	the chat box and Morgan and Scott can respond.
01:11:13 --> 01:11:14:	Right?
01:11:16 --> 01:11:19:	Just to keep going here, I just wanted to mention
01:11:19 --> 01:11:23:	that during our last meeting, we had a meeting on
01:11:23 --> 01:11:30:	landscaping codes and ordinances and resources and templates, design templates.
01:11:31 --> 01:11:33:	And I'm wondering if anyone from Northern Water is still
01:11:33 --> 01:11:34:	on the line.
01:11:36 --> 01:11:40:	Frank Kinder, if you don't mind unmuting, I'm just giving
01:11:40 --> 01:11:44:	a little shout out to your new landscape design templates.
01:11:51 --> 01:11:53:	And Frank, if you, if you could put them in
01:11:54 --> 01:11:57:	the chat box when you're available, that would be great.
01:11:57 --> 01:12:00:	But I just wanted to mention that we also created
01:12:00 --> 01:12:03:	a list of resources from that session that we can
01:12:03 --> 01:12:04:	share.
01:12:04 --> 01:12:06:	And I can put that in a follow up e-mail
01:12:06 --> 01:12:08:	or in in the chat box shortly.
01:12:08 --> 01:12:11:	But I was wondering if we should do something similar
01:12:11 --> 01:12:15:	for policies, both state level and local level policies.
01:12:15 --> 01:12:19:	I'm wondering if people wouldn't mind unmuting and letting me
01:12:19 --> 01:12:20:	know, does that already exist?
01:12:21 --> 01:12:24:	Do we already have a list of resources for policies
01:12:24 --> 01:12:28:	related to water wise strategies or is that something that
01:12:28 --> 01:12:30:	we should invest time in creating?
01:12:36 --> 01:12:38:	Just feel free to unmute.
01:12:40 --> 01:12:40:	Hi.
01:12:40 --> 01:12:44:	Marianne, this is Chelsea Benjamin from Western Resource Advocates.
01:12:44 --> 01:12:48:	We have a sort of working list of state level
01:12:48 --> 01:12:52:	policies related to land use and water, and it's broken

01:12:52 --> 01:12:56:	down into different categories of strategies.
01:12:56 --> 01:12:59:	It's in constantly in the update process.
01:12:59 --> 01:13:02:	The last time we updated it was in 2022, but
01:13:02 --> 01:13:05:	we hope to keep adding to it and adding some
01:13:05 --> 01:13:07:	of the newer ones this summer.
01:13:07 --> 01:13:09:	And I can pop the link to that in the
01:13:09 --> 01:13:09:	chat.
01:13:10 --> 01:13:11:	That would be perfect, Yeah.
01:13:11 --> 01:13:15:	For anyone who has resources, obviously we've heard about some
01:13:16 --> 01:13:19:	of the other resources from our speakers today, but I'd
01:13:19 --> 01:13:23:	love to maybe create another document like what we did
01:13:23 --> 01:13:28:	for landscape ordinances and PUT include Western resource advocates as
01:13:28 --> 01:13:28:	well.
01:13:34 --> 01:13:38:	Anybody else have resources that they're aware of?
01:13:50 --> 01:13:50:	Right.
01:13:50 --> 01:13:52:	This is a quiet group today.
01:13:54 --> 01:13:54:	All right.
01:13:54 --> 01:13:57:	And then I just wanted to mention that the Next
01:13:57 --> 01:14:00:	Generation Water Summit is coming up on June 20th and
01:14:00 --> 01:14:03:	21st and the link is here and I can put
01:14:03 --> 01:14:05:	that in the chat box as well.
01:14:09 --> 01:14:13:	Just in terms of upcoming programming, these are the plans
01:14:13 --> 01:14:15:	for the upcoming meetings.
01:14:15 --> 01:14:18:	We'd love for you guys to give us some input.
01:14:18 --> 01:14:22:	So our next meeting will be on affordability related to
01:14:22 --> 01:14:25:	water pricing, tap fees and equity.
01:14:25 --> 01:14:28:	And we have some folks who have already volunteered to
01:14:28 --> 01:14:29:	talk about that.
01:14:29 --> 01:14:32:	But if any of you are interested in being a
01:14:32 --> 01:14:36:	speaker or contributing resources along those lines, please let us
01:14:36 --> 01:14:37:	know.
01:14:37 --> 01:14:39:	You can put it in the chat box and we'll
01:14:39 --> 01:14:39:	capture that.
01:14:41 --> 01:14:45:	After that, we're thinking about having a session on water
01:14:45 --> 01:14:52:	neutral development and then data-driven water ladies forecasting and then
01:14:52 --> 01:14:53:	water reuse.
01:14:53 --> 01:14:56:	And I'm wondering if people don't mind unmuting and just
01:14:56 --> 01:14:58:	providing feedback or putting it in the chat box.
01:15:04 --> 01:15:06:	Are there any other topics that you would like us

01:15:06 --> 01:15:07:	to add to this list?
01:15:13 --> 01:15:14:	I'm just we.
01:15:14 --> 01:15:22:	Could add a conversation on preventing displacement and the perpetuation
01:15:22 --> 01:15:24:	of inequities.
01:15:24 --> 01:15:24:	As we.
01:15:25 --> 01:15:27:	Invest in more water wise development.
01:15:29 --> 01:15:29:	Yeah.
01:15:29 --> 01:15:32:	And that, so that will kind of be covered in
01:15:32 --> 01:15:36:	our our next session related to equity and affordability.
01:15:37 --> 01:15:40:	And yeah, is there anything beyond that that or in
01:15:40 --> 01:15:43:	particular that you would like us to talk about?
01:15:43 --> 01:15:46:	Yeah, I'm thinking more on the displacement side.
01:15:47 --> 01:15:50:	So I'm, I'm guessing in the context of water pricing,
01:15:50 --> 01:15:52:	you're talking about affordability and equity there.
01:15:53 --> 01:15:57:	What about as we invest in new communities and infill
01:15:57 --> 01:16:01:	development whereas we see a lot of gentrification which.
01:16:01 --> 01:16:02:	Leads to displacement.
01:16:02 --> 01:16:04:	So I'm wondering how we as the at the Nexus
01:16:04 --> 01:16:07:	of water and land use planning, how we can help
01:16:07 --> 01:16:10:	to work against that gentrification and displacement.
01:16:11 --> 01:16:11:	OK.
01:16:12 --> 01:16:16:	We haven't seen too much displacement related to water pricing
01:16:16 --> 01:16:20:	in particular, but definitely with new developments and just the,
01:16:20 --> 01:16:24:	you know, affordability crisis in general, that's a big issue.
01:16:24 --> 01:16:27:	I really recommend getting involved in ULI because we have
01:16:27 --> 01:16:29:	so much content related to that.
01:16:29 --> 01:16:32:	For this meeting, it will be more related to water.
01:16:33 --> 01:16:37:	And just because water pricing historically hasn't been as high
01:16:37 --> 01:16:40:	as other utilities and it's not really tied as much
01:16:41 --> 01:16:44:	to housing prices in general, it's not as it's not
01:16:44 --> 01:16:47:	considered as responsible for displacement.
01:16:50 --> 01:16:51:	Anybody else?
01:17:01 --> 01:17:02:	OK, Thank you.
01:17:03 --> 01:17:04:	Just want to make a quick plug.
01:17:05 --> 01:17:08:	Our Resilience Summit, Uli's Resilience Summit is coming up on
01:17:08 --> 01:17:09:	April 12th.
01:17:09 --> 01:17:11:	It'll be in New York City.
01:17:11 --> 01:17:15:	Water will be covered as part of the Resilience Summit

01:17:15 --> 01:17:18:	and this event will be in coordination with Uli's spring
01:17:19 --> 01:17:19:	meeting.
01:17:19 --> 01:17:24:	So if you're interested in housing affordability, if you're interested
01:17:24 --> 01:17:28:	in development in general, utilize Global meetings are the place
01:17:28 --> 01:17:31:	to go to learn a lot of new content, network
01:17:31 --> 01:17:32:	across the country.
01:17:33 --> 01:17:34:	There's even international members.
01:17:34 --> 01:17:37:	We have over 46,000 members worldwide.
01:17:38 --> 01:17:40:	So this is a great event to go to and
01:17:40 --> 01:17:43:	really plug into the real estate and development world.
01:17:43 --> 01:17:46:	So Danielle, since we're talking about these things, like we
01:17:46 --> 01:17:49:	talk about these things all the time, not necessarily in
01:17:49 --> 01:17:52:	the water space, but definitely it's a huge issue.
01:17:53 --> 01:17:56:	So we really recommend that you join us in New
01:17:56 --> 01:17:59:	York City in April and you can use this QR
01:17:59 --> 01:18:02:	code For more information and to register.
01:18:04 --> 01:18:07:	And then I also wanted to make a quick update.
01:18:07 --> 01:18:10:	We had talked about potentially doing a symposium related to
01:18:10 --> 01:18:11:	water wise strategies.
01:18:11 --> 01:18:15:	We will be doing that at Utilize Fall meeting coming
01:18:15 --> 01:18:16:	up in Las Vegas.
01:18:17 --> 01:18:21:	So it'll be our official Lewis Center for Sustainability forum.
01:18:21 --> 01:18:24:	It'll be on water wise strategies on October 28th.
01:18:25 --> 01:18:26:	It'll be all day.
01:18:26 --> 01:18:30:	We're going to feature experts from all around the country
01:18:30 --> 01:18:34:	and featuring local expertise as well on water wise strategies
01:18:34 --> 01:18:37:	which they're which is abundant in Las Vegas.
01:18:37 --> 01:18:40:	We're also going to have water wise tours of the
01:18:40 --> 01:18:41:	Venetian and the Bellagio.
01:18:42 --> 01:18:44:	And if you'd like more information, it will be posted
01:18:45 --> 01:18:48:	soon, especially after our upcoming spring meeting in April.
01:18:48 --> 01:18:49:	And I put the link right here.
01:18:54 --> 01:18:54:	Great.
01:18:55 --> 01:18:57:	And with that, I'll close this out unless anyone has
01:18:58 --> 01:18:59:	any other comments or questions.
01:19:00 --> 01:19:02:	You're always welcome to reach out to me if you
01:19:02 --> 01:19:05:	have if something comes to mind outside of these meetings.
01:19:05 --> 01:19:06:	But we love having you here.
01:19:07 --> 01:19:08:	So thank you for joining us today.
01:19:09 --> 01:19:10:	And we really I see your hand is up.

01:19:11 --> 01:19:14:	Yes, thanks, Marianne.
01:19:14 --> 01:19:17:	I was just noticing that there were a couple of
01:19:17 --> 01:19:21:	questions that popped up in the chat for Scott and
01:19:21 --> 01:19:21:	Morgan.
01:19:21 --> 01:19:24:	And so I know we still have a few minutes.
01:19:25 --> 01:19:28:	I think it would be great to give them a
01:19:28 --> 01:19:31:	chance to to talk a little bit more in response
01:19:31 --> 01:19:33:	to those questions.
01:19:33 --> 01:19:33:	Oh, great.
01:19:33 --> 01:19:34:	Thank you.
01:19:35 --> 01:19:38:	For those of you have questions, please unmute and just
01:19:38 --> 01:19:38:	go ahead and ask.
01:19:42 --> 01:19:44:	Hi, good afternoon.
01:19:44 --> 01:19:46:	Sorry, I was having some trouble with the mute button.
01:19:46 --> 01:19:49:	I'm Andrew with the city of Goodyear, AZ water.
01:19:50 --> 01:19:53:	And I just had a question related to what Scott
01:19:53 --> 01:19:56:	was presenting on or some of those the on the
01:19:56 --> 01:19:57:	end use.
01:19:58 --> 01:20:00:	I was curious on the end use of the adjustments
01:20:00 --> 01:20:04:	that you've been making to the landscape for some of
01:20:04 --> 01:20:06:	those, residential and commercial.
01:20:06 --> 01:20:10:	Are the actual numbers that you're seeing at the end
01:20:10 --> 01:20:14:	of the day reflecting the changes you were hoping to
01:20:14 --> 01:20:17:	see in the conservation numbers overall?
01:20:17 --> 01:20:21:	So I guess my question is after the landscapes are
01:20:21 --> 01:20:24:	installed, they all of them tend to have that growing.
01:20:24 --> 01:20:28:	Are the end use customers making those changes to reflect
01:20:28 --> 01:20:30:	what they actually have long term?
01:20:30 --> 01:20:32:	And then are you seeing those water savings from there
01:20:32 --> 01:20:34:	or are you even that far in the process?
01:20:34 --> 01:20:35:	Thank you.
01:20:37 --> 01:20:38:	Yeah, that's a very good question.
01:20:39 --> 01:20:42:	We're not that far along in the process since the
01:20:42 --> 01:20:45:	code just went into effect last June.
01:20:46 --> 01:20:49:	That is something we plan to start doing this year
01:20:49 --> 01:20:51:	looking at their actual consumption.
01:20:52 --> 01:20:53:	We know there's an establishment.
01:20:53 --> 01:20:55:	That we have to to consider with that.
01:20:55 --> 01:20:59:	But you know, one of the things that we're looking
01:20:59 --> 01:21:03:	at is adding on to the the code elements with
01:21:03 --> 01:21:06:	budget based rates for example.
01:21:06 --> 01:21:10:	So we want to see how customers end up using

01:21:10 --> 01:21:16:	water on those sites, make sure that they understand if
01:21:16 --> 01:21:20:	need be what the site was designed to use and
01:21:20 --> 01:21:25:	if, if we need to, you know, implement budget based
01:21:25 --> 01:21:29:	rates to provide some accountability for that.
01:21:30 --> 01:21:32:	But we do a lot of education as well.
01:21:32 --> 01:21:36:	We do irrigation audits and things of that nature to,
01:21:36 --> 01:21:39:	to make sure we're connecting with our customers to help
01:21:39 --> 01:21:41:	them use water effectively.
01:21:41 --> 01:21:44:	But the the verdict's still hot on, on how water's
01:21:44 --> 01:21:47:	actually going to be used on some of these sites.
01:21:47 --> 01:21:49:	So that's a very good question.
01:21:51 --> 01:21:51:	Thank you.
01:21:59 --> 01:22:01:	Was there anyone else who had a question for Scott
01:22:01 --> 01:22:02:	and Morgan?
01:22:08 --> 01:22:08:	You're muted.
01:22:08 --> 01:22:09:	Maybe like, go ahead.
01:22:09 --> 01:22:12:	I think Peter Mayer had a question in the chat
01:22:12 --> 01:22:14:	but he may have had to jump off so.
01:22:16 --> 01:22:16:	Yeah.
01:22:18 --> 01:22:18:	All right.
01:22:18 --> 01:22:20:	Well, maybe we can follow up with him.
01:22:20 --> 01:22:21:	Yeah.
01:22:21 --> 01:22:22:	Great.
01:22:22 --> 01:22:23:	Well, thank you all so much for joining.
01:22:23 --> 01:22:26:	I just want to mention that I the landscaping resource
01:22:26 --> 01:22:29:	list that we started creating since our last meeting, I
01:22:29 --> 01:22:30:	put that in the chat box.
01:22:30 --> 01:22:33:	So you're welcome to use that and add to it.
01:22:33 --> 01:22:34:	We would love that.
01:22:34 --> 01:22:38:	It's a coalition shared resource, so we're hoping it grows
01:22:38 --> 01:22:39:	over time.
01:22:40 --> 01:22:40:	All right.
01:22:41 --> 01:22:42:	Well, thank you all so much for joining today.
01:22:42 --> 01:22:46:	We hope you have a wonderful afternoon or evening and
01:22:46 --> 01:22:48:	we look forward to seeing you soon.
01:22:50 --> 01:22:50:	Bye everybody.
01:22:50 --> 01:22:51:	Thanks so much for.
01:22:51 --> 01:22:51:	Looking appreciate.
01:22:52 --> 01:22:54:	Everyone, thank you door speakers.