



# ***CLIMATE UPDATE***

*INTRODUCTION BY:*

**Cris Eugster**

Chief Operating Officer (COO)

*PRESENTED BY:*

**Angela Rodriguez**

Interim Director, Climate & Sustainability

February 18, 2019

*Informational Update*

# AGENDA



- **CLIMATE ACTION & ADAPTATION PLAN (CAAP)**
- **PARTNERS & SUPPORT**
- **COMMUNITY ENGAGEMENT**
- **CAAP TEAMS**
- **PUBLIC OUTREACH**
- **CITY'S TIMELINE, BASELINE & GOAL**
- **CITY'S DRAFT RELEASE**



Mayor Nirenberg, CW Ana Sandoval, Doug Melnick CoSA,  
CAAP Open House, Young Women's Leadership Academy,  
October 13, 2018

# PARTNERS & SUPPORT



\*University of Texas at San Antonio

# CAAP TEAMS



CAAP Steering Committee Meeting  
July 11, 2018

- Steering Committee
- Climate Equity Technical Working Group (TWG)
- Energy & Buildings TWG
- Waste & Consumption TWG
- Transportation & Land Use TWG
- Water & Natural Resources TWG

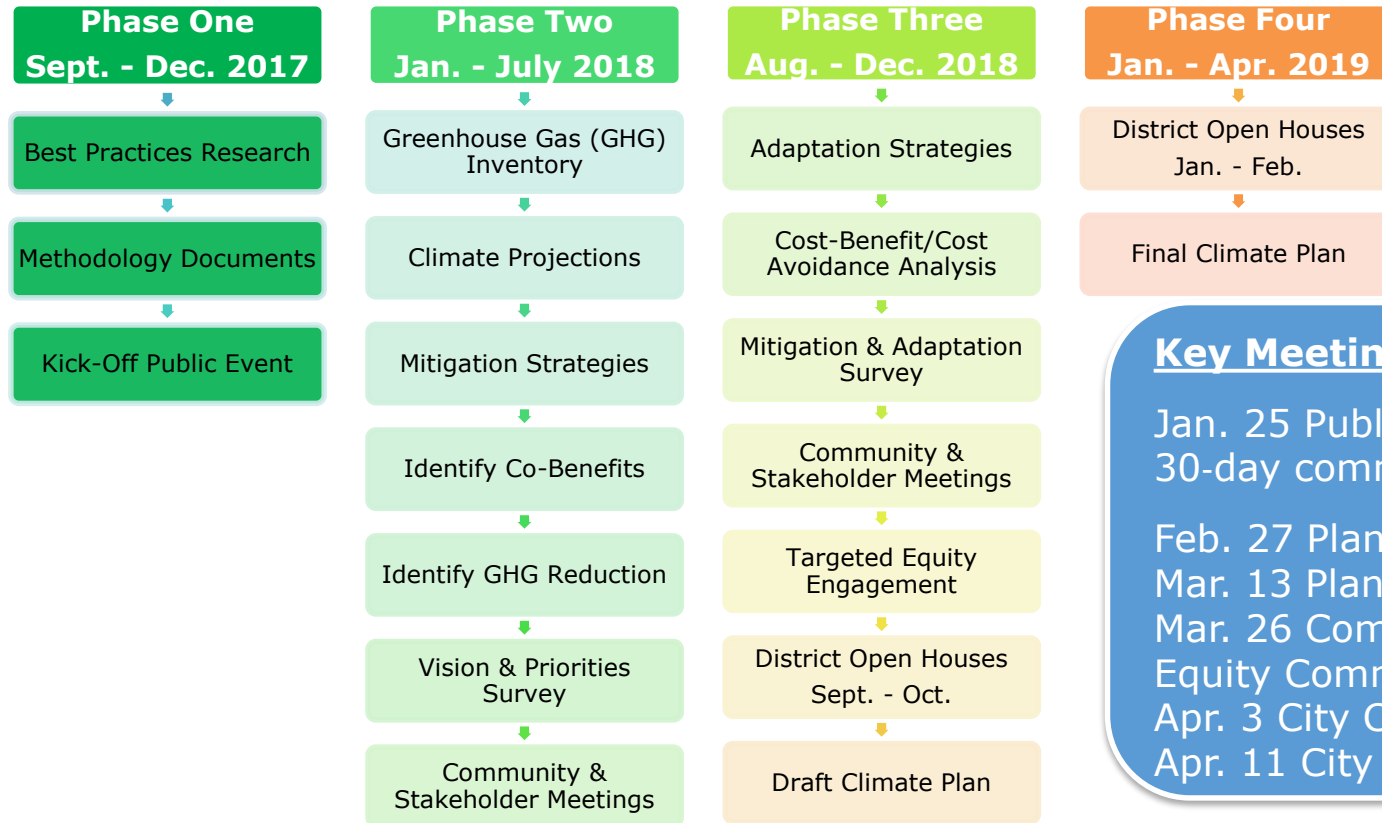
# PUBLIC OUTREACH



- Monthly Environmental Stakeholder Meetings
- Monthly Business Stakeholder Meetings
- Customer Care Fairs
- Open Houses
- Neighborhood Associations
- Chambers of Commerce
- Community Events
- Over 6,000 community members at about 150 meetings/events

CAAP Open House at John Igo Library October 29, 2018

# CITY'S TIMELINE



## Key Meeting Dates 2019:

Jan. 25 Public Release DRAFT CAAP  
30-day comment period opens

Feb. 27 Planning Commission #1

Mar. 13 Planning Commission #2

Mar. 26 Community Health &  
Equity Committee Briefing

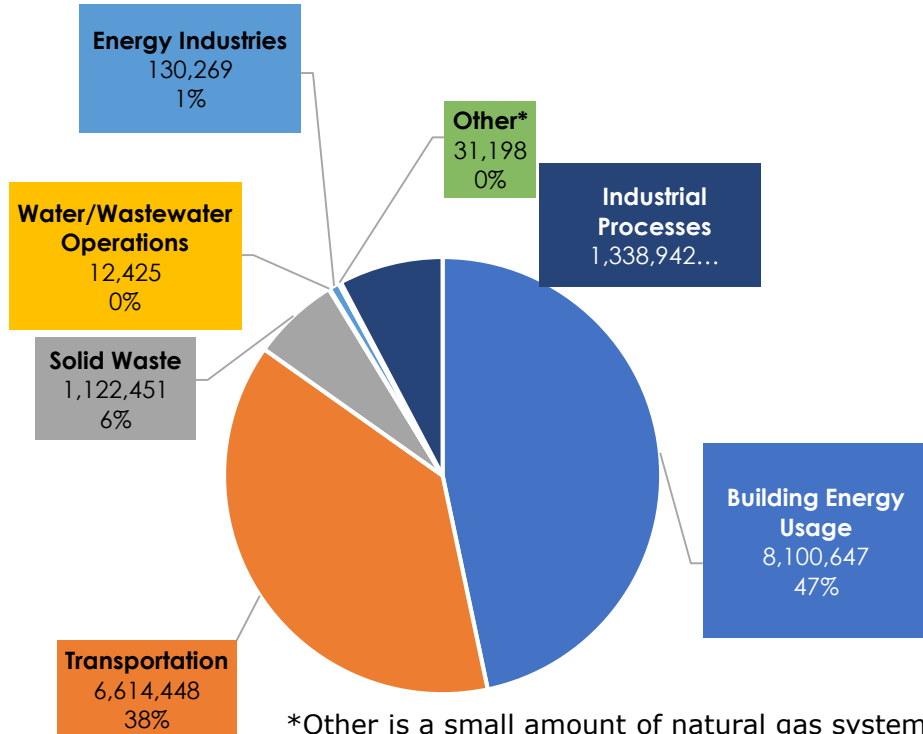
Apr. 3 City Council B-Session

Apr. 11 City Council A-Session

# CITY'S BASELINE



## 2016 SAN ANTONIO TOTAL COMMUNITY GHG EMISSIONS BY SECTOR



\*Other is a small amount of natural gas system emissions, not power plant emissions

**Total**  
**17,350,376 tCO2e**

**Building Energy Usage (47%)** and **Transportation (38%)** are the two largest sectors, so Mitigation Strategies will focus on reductions in those sectors.



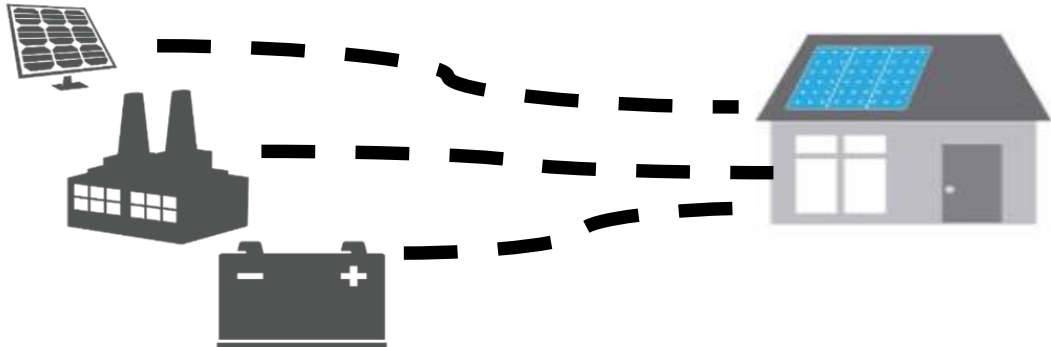
# BUILDINGS & ENERGY USE



Generate Power

Uses Power

The CAAP inventory baseline report measures CPS Energy's GHG emissions at the consumption level



We can update portfolio to reduce emissions

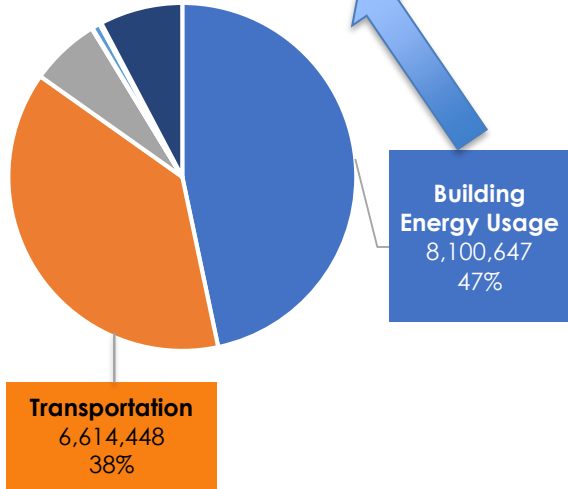
The community can try more programs, etc.

**LEVERS**

**If emissions were measured at the generation source & at the point of usage, emissions would be double-counted!**

# LEVERS

## GHG EMISSIONS



### Potential Mitigation Strategies for CPS Energy:

- Flexible Path
- Increasing Renewable Generation
- Energy Efficiency Programs
- Adding Solar (utility scale and consumer programs)

### Potential Mitigation Strategies for end-use customers:

- Utilize Energy Efficiency Programs
- Adding Solar to Home or Business
- Building Codes
- White & Reflective Roofs

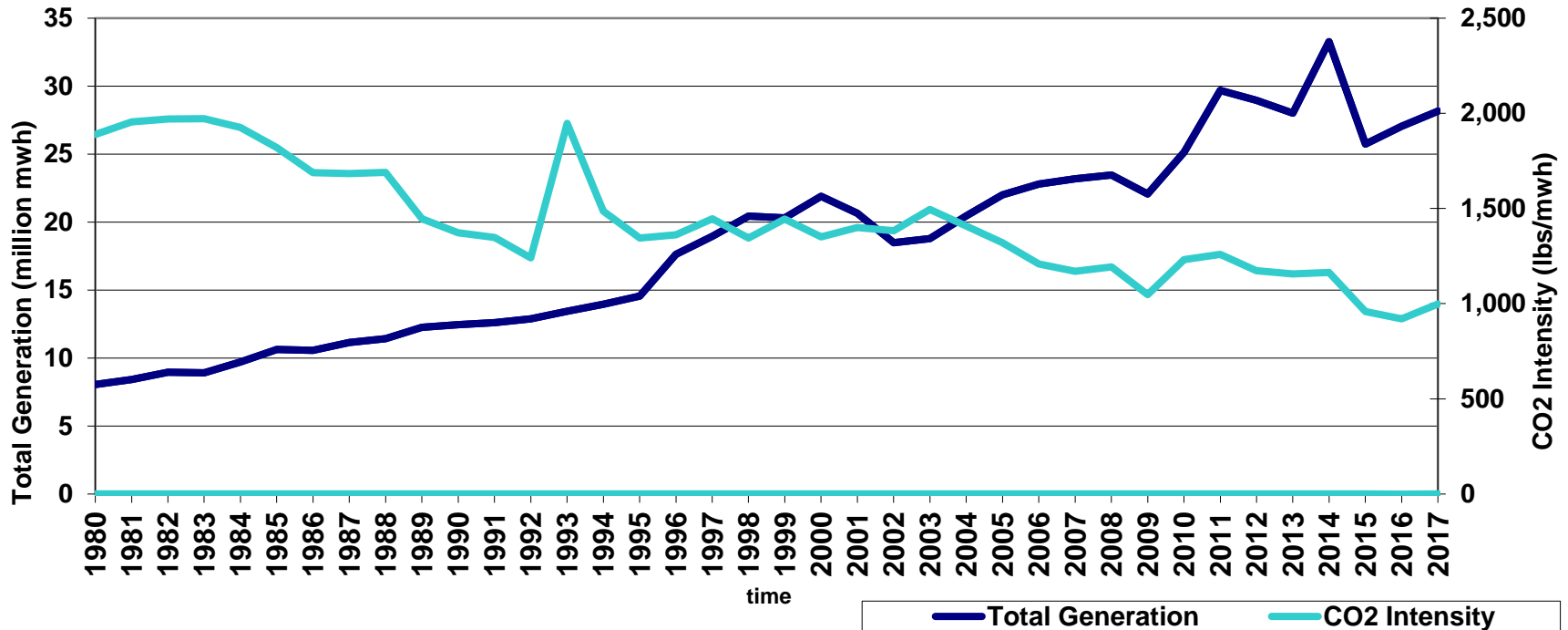
**Our power plant emissions are included in the GHG inventory for building energy usage. We will work together & collaboratively with the business community to find ways to reduce emissions.**

# CARBON INTENSITY



As we have added generation through the years, we have reduced our GHG intensity.

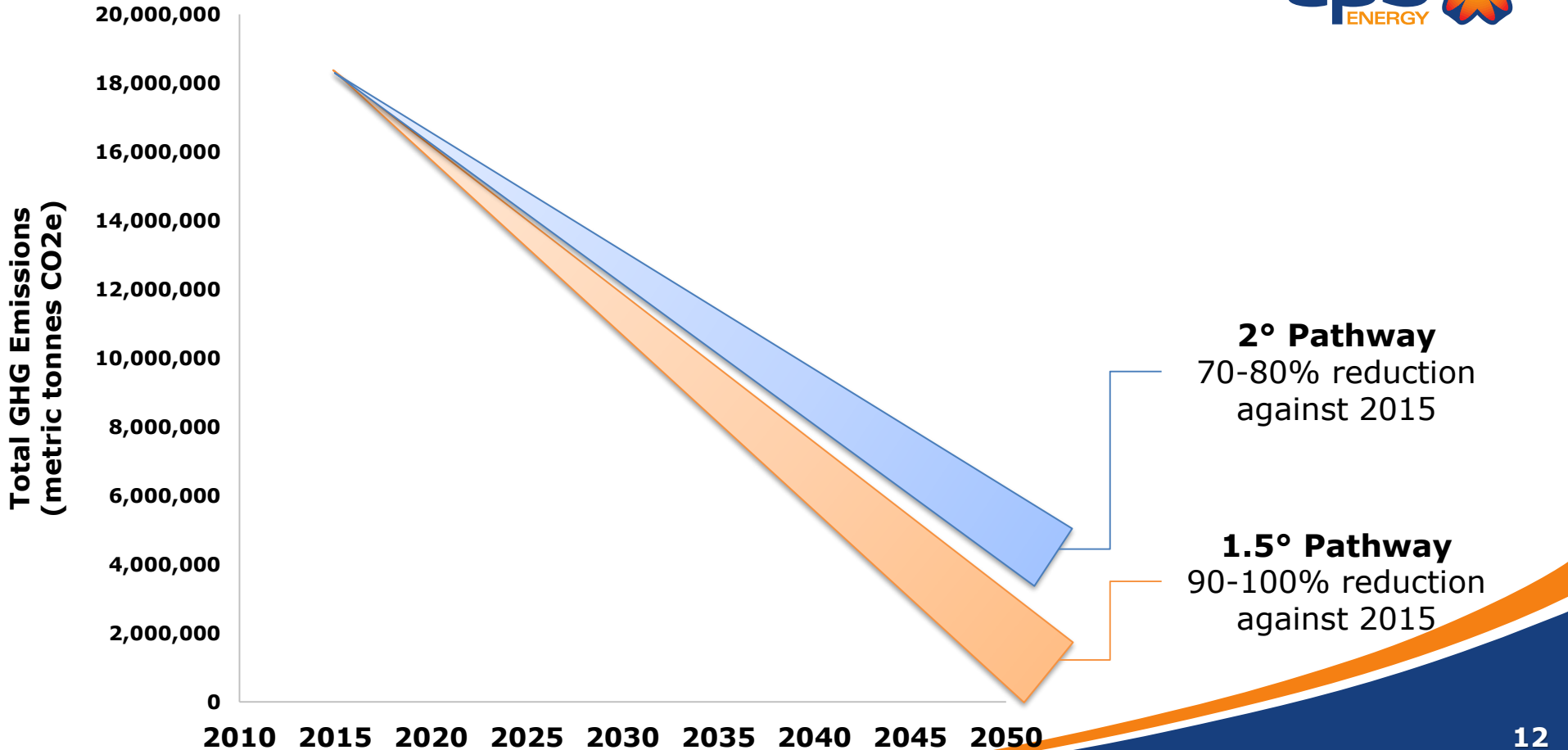
### Historical CO<sub>2</sub> Intensity for CPS Energy\*



\*Pounds of CO<sub>2</sub> emissions per net MWh of generation from all sources of power including gas, coal, wind, solar and nuclear



# CITY'S GOAL



# CITY'S DRAFT PLAN



Together, we are building solutions to prepare our city for climate change. Along with its partners and members of the community, the City of San Antonio is developing a Climate Action and Adaptation Plan (CAAP). The CAAP will lay a roadmap to reduce carbon emissions, adapt to a changing climate, and ensure San Antonio remains a healthy, vibrant place for generations to come.  
Explore the site to track our progress, learn about upcoming events, and discover ways to take action.



RESIDENTS



BUSINESSES



FAMILIES



NEXT GEN SA



TAKE ACTION

- VIEW OUR PROGRESS
- BECOME A VOLUNTEER
- TAKE OUR SURVEY
- CONNECT AND SHARE

## Key Dates:

**Jan. 25**

Public Release DRAFT CAAP  
30-day comment period  
opened

**Apr. 11**

City Council A-Session  
Final Plan Approval

The community can visit [www.saclimateready.org](http://www.saclimateready.org) to submit feedback on the DRAFT CAAP for the City of San Antonio.



***Thank You***



# ***Appendix***

# GLOSSARY



ACROYNM	TERM	DEFINITION
<b>CAAP</b>	<b>Climate Action &amp; Adaptation Plan</b>	A CAAP is a plan created by utilizing public engagement to explore both mitigation strategies, aiming to reduce or prevent the emission of GHGs, and adaptation strategies aiming to prepare the community, municipal government operations, and other key sectors for the anticipated impacts of climate change.
<b>GHG</b>	<b>Greenhouse gas</b>	Greenhouse Gas (GHG) Emissions are the carbon dioxide (CO <sub>2</sub> ), methane (CH <sub>4</sub> ), and nitrous oxide (N <sub>2</sub> O) gases released into the atmosphere as a result of energy consumption at the property. GHG also can include sulfur hexafluoride (SF <sub>6</sub> ), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and other fluorinated greenhouse gases. GHG emissions are expressed in carbon dioxide equivalent (CO <sub>2</sub> e), a universal unit of measure that combines the quantity and global warming potential of each greenhouse gas.
<b>IPCC</b>	<b>Intergovernmental Panel on Climate Change</b>	The Intergovernmental Panel on Climate Change (IPCC) is a United Nations body, founded in 1988, which evaluates climate change science. The IPCC assesses research on climate change and synthesises it into major assessment reports every 5–7 years.
<b>MWh</b>	<b>Megawatt Hour</b>	A unit of energy, especially of electrical energy. It is a measure of the actual amount of power consumed or produced by one megawatt expended for a period of one hour
<b>NOx</b>	<b>Nitrogen Oxides</b>	Any of several oxides of nitrogen most of which are produced in combustion and are considered to be air pollutants, they are one of EPA's criteria and most regulated pollutants. Nox contributes to ozone formation.
	<b>Paris Climate Accord</b>	The Paris climate accord, known as the "Paris Agreement" by the United Nations, is an international agreement reached in 2015 aimed at reducing carbon emissions, slowing rising global temperatures and helping countries deal with the effects of climate change. The agreement was signed in Paris, France.
	<b>SA Climate Ready</b>	CPS Energy is working with the City of San Antonio (CoSA), UTSA and the consulting firm Navigant to develop the community's Climate Action and Adaptation Plan (CAAP). For branding, website, and public engagement purposes we are referring to the CAAP development process as SA Climate Ready. Visit <a href="http://www.saclimateready.org">www.saclimateready.org</a> for more info.
<b>OS</b>	<b>Ozone Season</b>	For EPA regulatory tracking purposes ozone season is May through September of each year. Since ozone needs high temperature and sunlight to form, the hot summer months are when ozone emissions are at their highest.
<b>SC</b>	<b>Steering Committee</b>	To ensure diverse stakeholder interests are well represented in the CAAP. We are engaging the public, business, and environmental community partners to shape a better future for all members of our community. The Steering Committee was composed of the chairs of each CAAP TWG.
<b>TWG</b>	<b>Technical Working Group</b>	To ensure diverse stakeholder interests are well represented in the CAAP. We are engaging the public, business, and environmental community partners to shape a better future for all members of our community. The Steering Committee plus five Technical Working Groups focusing on Energy & Buildings, Transportation & Land Use, Water & Natural Resources, Climate Equity, and Waste & Consumption are made up of approximately 90 members from our community.