

Texas Produced Water Consortium



TxPWC@ttu.edu



Welcome and Thank You!

Agenda

Special Guests and Introductions

TTU President Schovanec

Senator Perry

TTU TxPWC Team

TxPWC FAQs

Engagement of Consortium

Participant Survey

Consideration of Important Questions

Planning for Next Meeting

Texas Produced Water Consortium



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TxPWC FAQs

Created by SB 601 during 2021 Legislative Session

The consortium shall study the:

- economics of beneficial uses of fluid oil and gas waste and
- technology needed for those uses.

After October 1, 2022

- (1) the research and investigation goals of the consortium shall be directed by the members of the consortium; and
- (2) the host university may disband the consortium if the host university determines that the consortium does not have sufficient membership.

Report Requirements of SB601

Not later than September 1, 2022, the consortium shall produce a report that includes:

- (1) suggested changes to law to better enable beneficial uses of fluid oil and gas waste, including specifically changes designed to find and define beneficial uses for fluid oil and gas waste outside of the oil and gas industry
- (2) suggested guidance for establishing fluid oil and gas waste permitting and testing standards;
- (3) an economically feasible pilot project for state participation in a facility designed and operated to recycle fluid oil and gas waste; and
- (4) an economic model for using fluid oil and gas waste in a way that is economical and efficient and that protects public health and the environment.

TxPWC FAQs

The Texas Produced Water Consortium is a consortium consisting of the host university, the agency advisory council, the stakeholder advisory council, the technical steering committee, and private entities. The consortium is created to bring together information resources to study the economics of and technology related to beneficial uses of fluid oil and gas waste.

Organization SB601

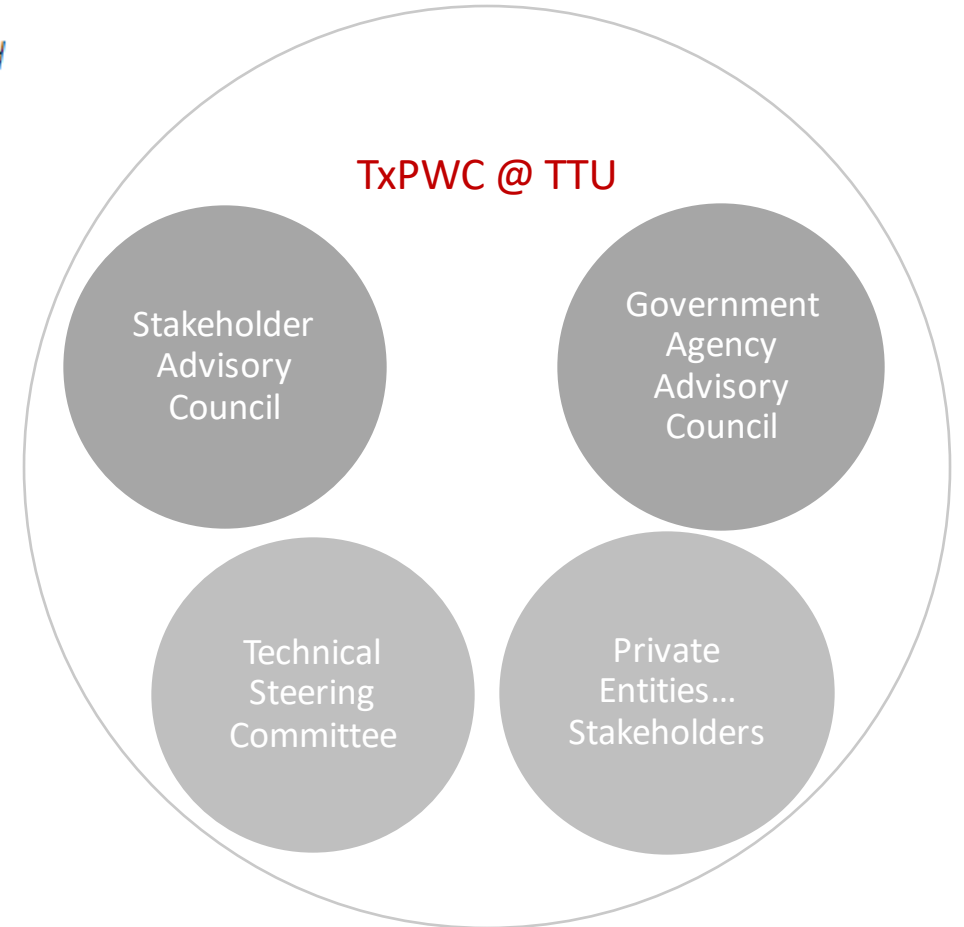
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Stakeholder Advisory Council

Government Agency Advisory Council

Technical Steering Committee

Private Entities (Stakeholders)



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TTU TxPWC Program Director

Interim Kayla Tindle

Interviews Underway for Director

TTU Faculty Co-Directors* & Team

Agricultural Sciences & Natural Resources

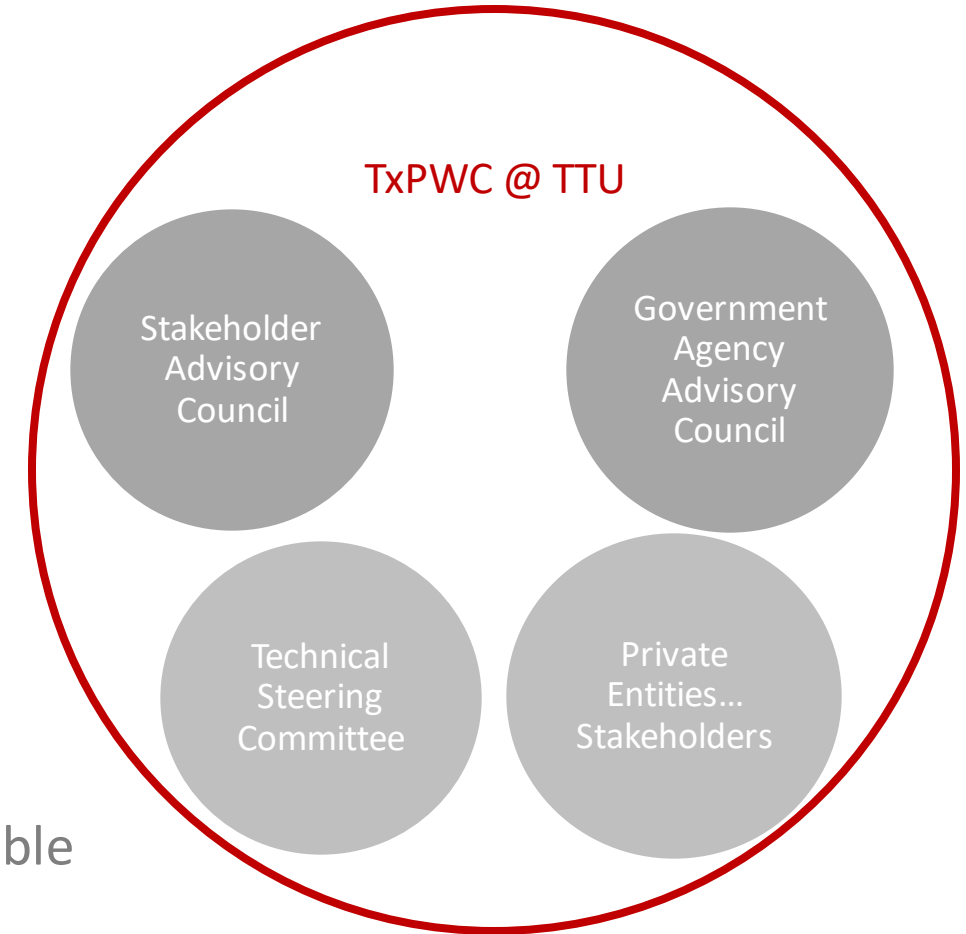
Eric Bernard*, Christy Bratcher

Business

Brad Ewing

Engineering

Marshall Watson*, Venki Uddameri*, Danny Reible



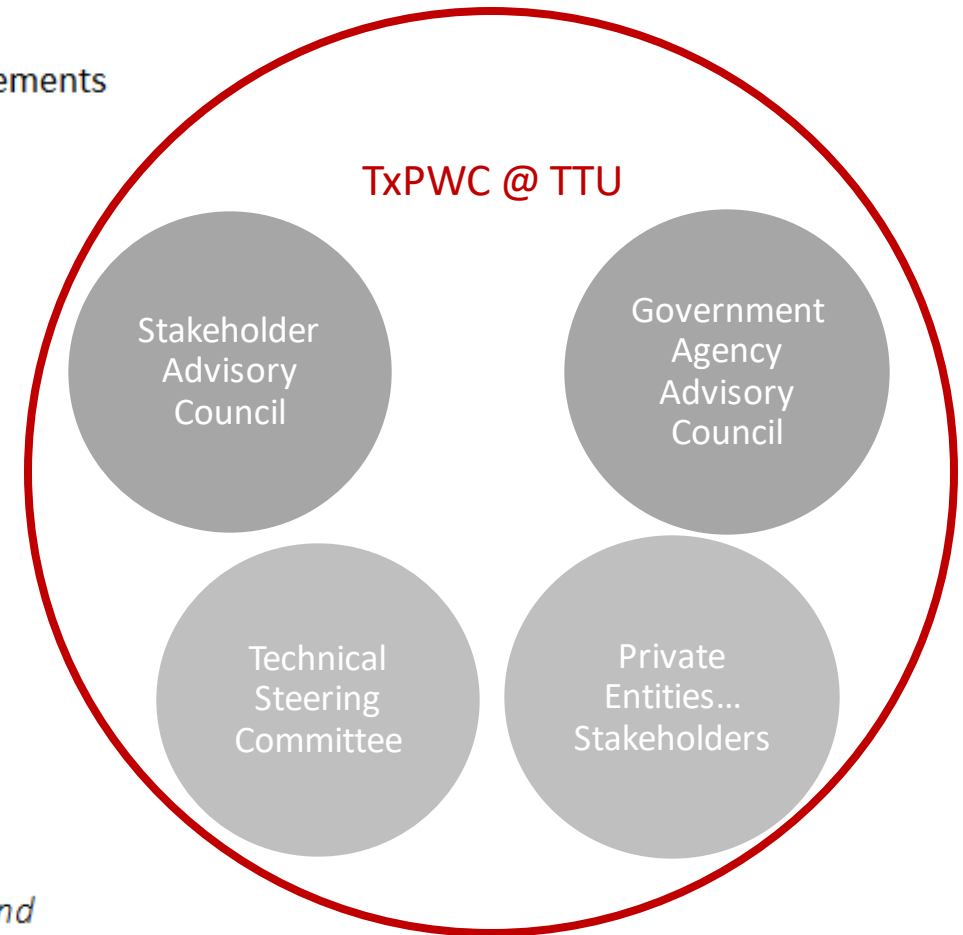
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The host university shall:

- (1) provide staff and other resources necessary for the consortium to meet the requirements of this subchapter;
- (2) consult with the New Mexico Produced Water Research Consortium on completed research, data, and any other matter related to the consortium; and
- (3) solicit participation from:
 - (A) the oil and gas industry;
 - (B) agricultural water users;
 - (C) industrial water users;
 - (D) environmental interests;
 - (E) fluid oil and gas waste recycling operations;
 - (F) midstream water companies;
 - (G) landowners;
 - (H) owners of groundwater rights;
 - (I) public water utilities; and
 - (J) river authorities subject to Section

The host university shall coordinate with other members of the state university system and state agencies to provide resources necessary for the consortium to meet the requirements of this subchapter.



TxPWC FAQs

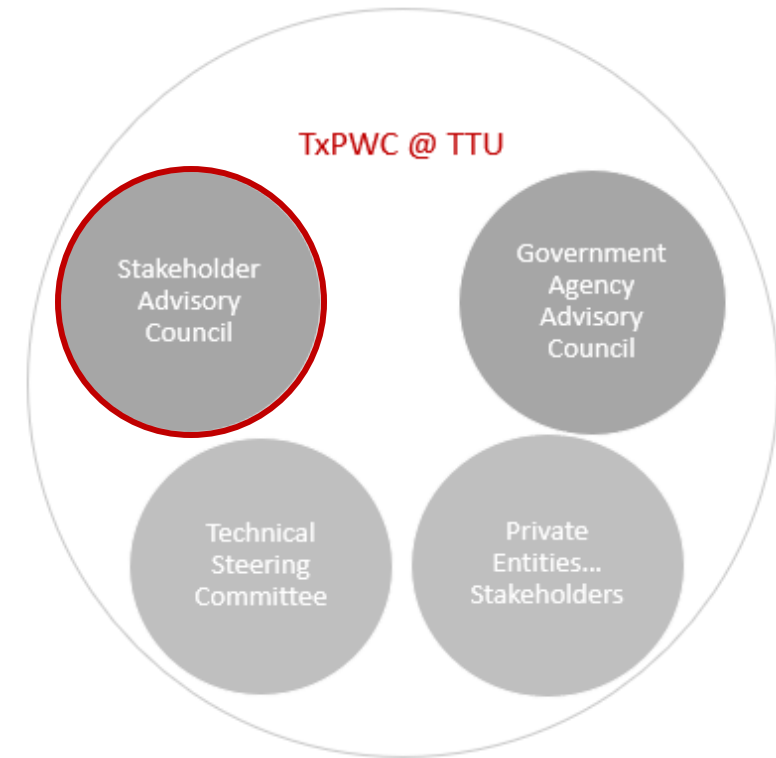
Organization SB601 TxPWC @ TTU

Stakeholder Advisory Council

The stakeholder advisory council shall advise the consortium on matters related to research, investigation, and contract development.

- (1) the oil and gas industry
- (2) agricultural water users
- (3) industrial water users
- (4) environmental interests
- (5) fluid oil and gas waste recycling operations
- (6) public water utilities
- (7) landowners or owners of groundwater rights
- (8) commercial water recyclers and midstream water companies
- (9) other appropriate interests or industries.

The host university shall appoint members to the stakeholder advisory council from members of the consortium. If no member of the consortium represents an interest or industry described by Subsection (e), the host university may appoint a person to represent the interest or industry from outside the consortium.



TxPWC FAQs

Organization SB601

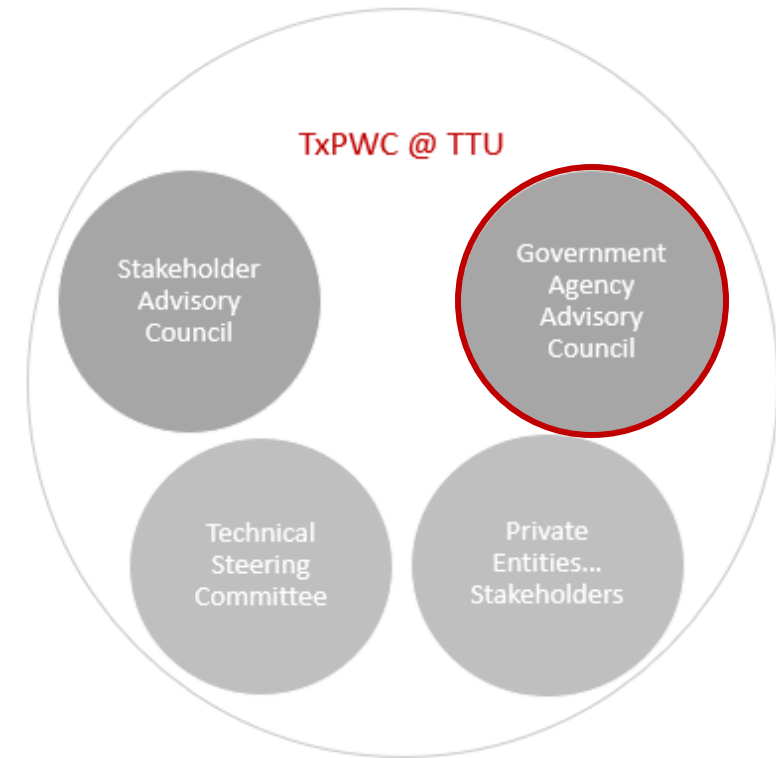
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Government Agency Advisory Council

The agency advisory council shall advise the consortium on matters related to the subject matter expertise of the agencies represented, including matters related to the regulation and permitting of and treatment standards for fluid oil and gas waste. Treatment standards may include a fit for purpose requirement and regulations necessary for the protection of human health and the environment.

- (1) Department of Agriculture;
- (2) Railroad Commission of Texas;
- (3) State Energy Conservation Office;
- (4) Texas Commission on Environmental Quality;
- (5) Texas Economic Development and Tourism Office
- (6) Parks and Wildlife Department; and
- (7) Texas Water Development Board.

Each entity described by Subsection (a) shall select a representative to serve on the agency advisory council.



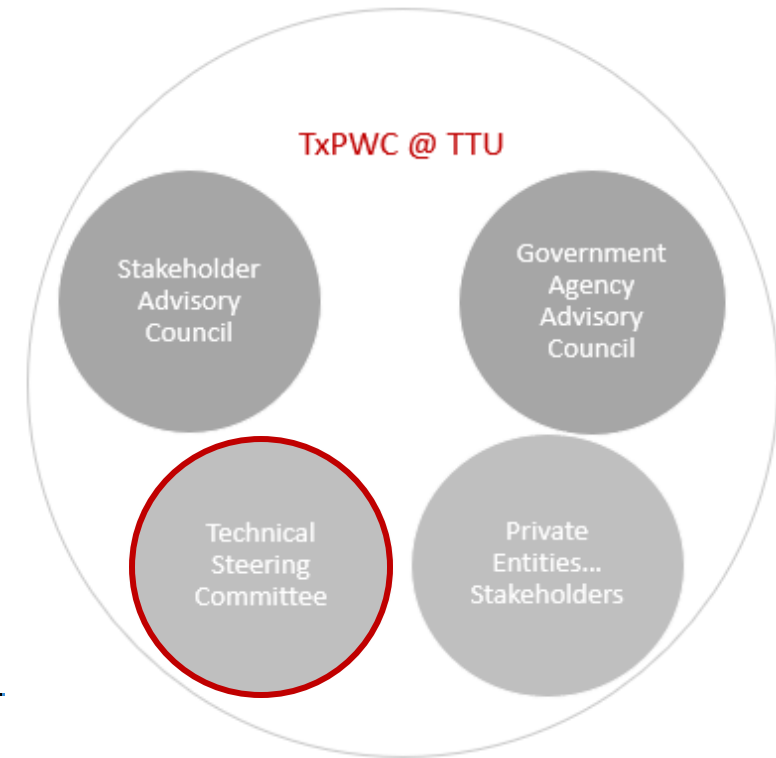
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Technical Steering Committee

The technical steering committee is composed of members appointed by the host university to provide technical and scientific expertise. The technical steering committee shall determine the feasibility of proposals for research or investigation by the consortium and decide which proposals the consortium will accept for research or investigation.



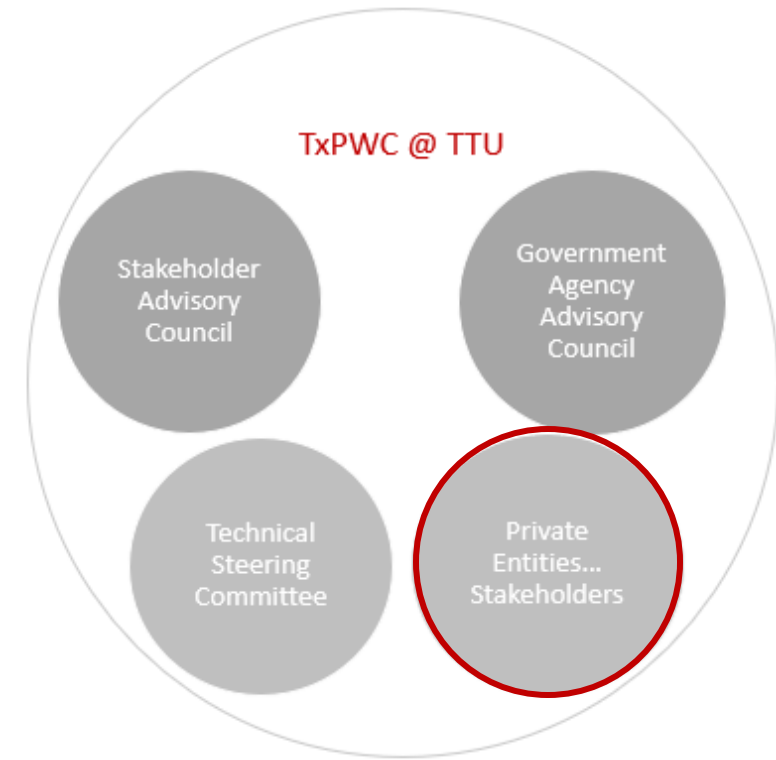
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Private Entities (Stakeholders)

Private entity means an individual, corporation, or nonprofit corporation.



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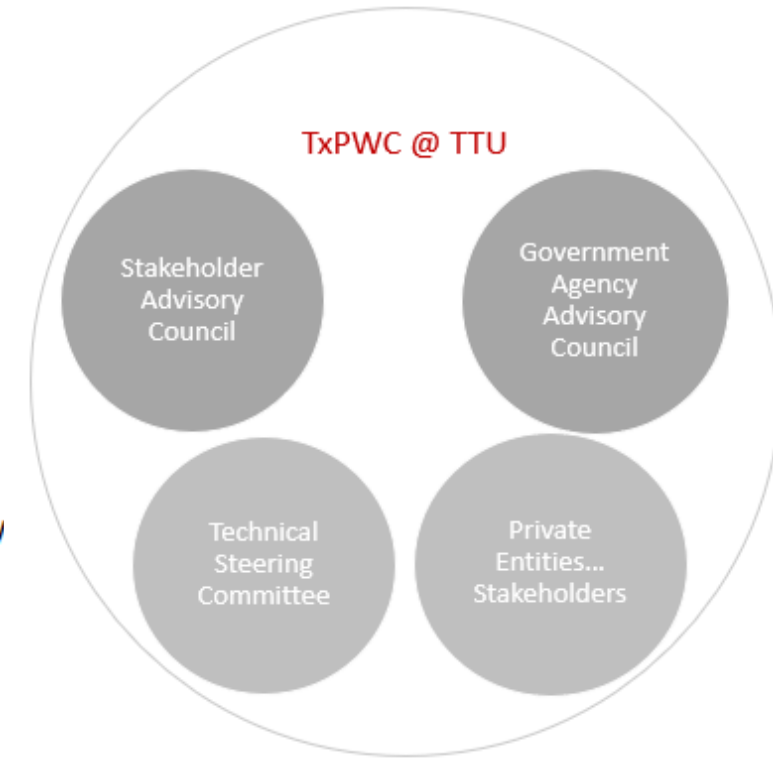
Funding SB601 TxPWC @ TTU

(a) The agency advisory council and the host university shall collaborate to create a fee structure that establishes membership costs at various levels for private entities that may contribute money to the consortium for research and investigation. Membership costs may include contributions of equipment or other resources in lieu of money.

(b) Money paid by private entities as membership costs may be used only for research and investigation conducted by the consortium.

(c) Except for state money appropriated to the host university for use in meeting the requirements of Section 109.204(a-1) and resources provided by the host university and other state university system entities or state agencies, the consortium may not receive state money.

(d) The consortium may accept gifts and grants of money, equipment, or other resources necessary to accomplish its duties under this subchapter.



TxPWC Informed by Senator Perry

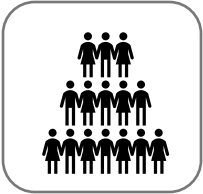
Purpose or Why Simply Stated

Collaboratively understand the potential and options for **Produced Water** to meet growing water demand and projected unmet water supply in Texas.

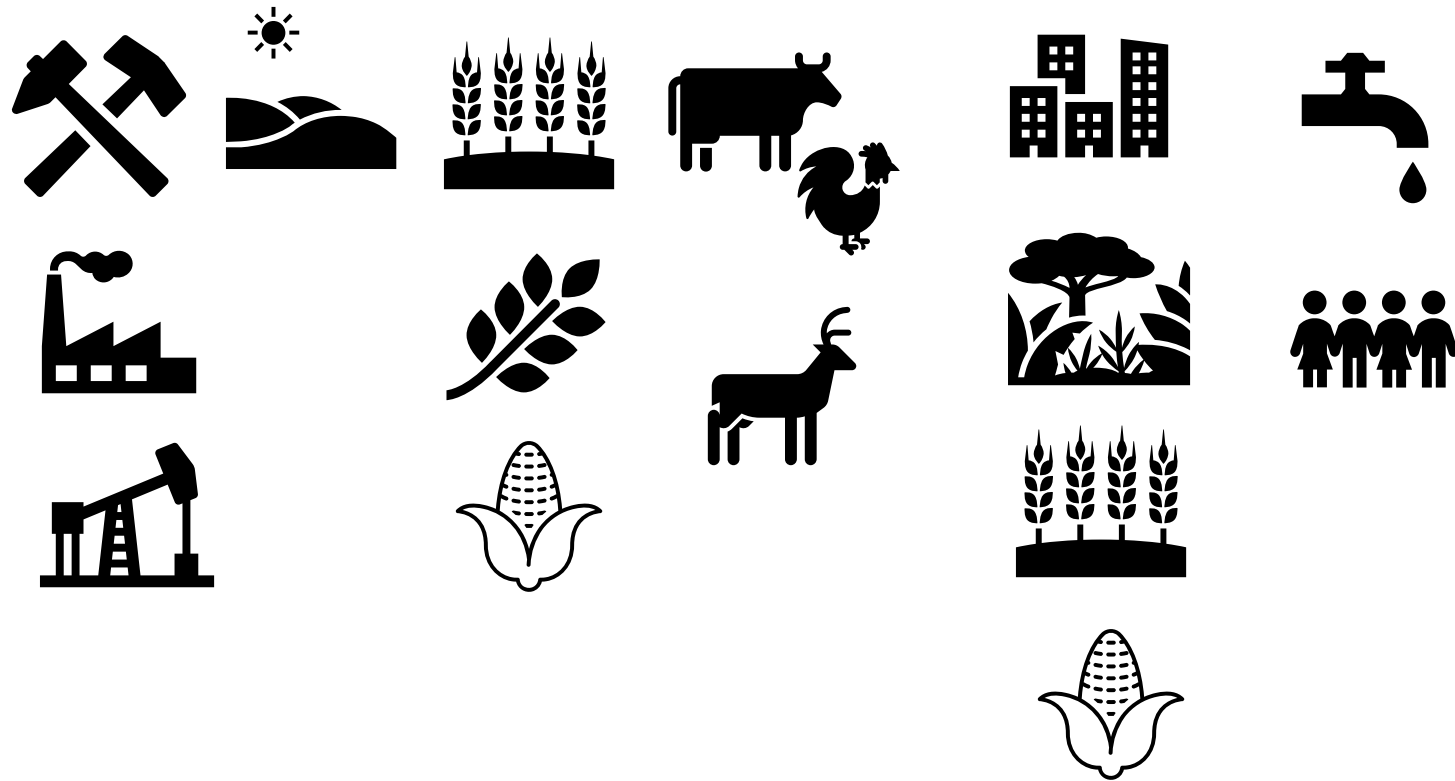
Goal Simply Stated

Collaboratively produce an excellent report to the legislature on options for policy, technical, and economic responses-impacts for produced water in Texas.

TxPWC Challenge



PW Options



Engagement- Survey



Survey

<https://forms.office.com/r/urFvdw2we2>

Engagement- Key Questions

We appreciate your time and input. To help going forward, how would we best work together to complete, divide/subdivide this extraordinary task?

What are the barriers and opportunities for economic viability of produced water in Texas?

How would policy be shaped to ensure the safe, equitable use of produced water in Texas?

What are your key questions?

Thank You!

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