

## ERRT Knowledge-Sharing Project Fact Sheet

The Energy Resources, Research and Technology Committee (ERRT) of the Interstate Oil and Gas Compact Commission continues to focus on providing technical support to state regulators through a knowledge-sharing project. This ongoing project connects oil and gas regulators with relevant technical societies to facilitate transfer of technical information regarding key emerging issues of concern, with topics refreshed annually.

An ERRT [report](#) from 2016 examining regulatory adaptation to emerging technology and practices in oil and gas production found that regulators need impartial technical resources to better understand and proactively respond to new technologies and practices. As recommended in the report, ERRT has established a two-way communication process between IOGCC and the technical societies. Because the regulatory community is generally overworked and understaffed, these resources best come in an accessible, curated, and targeted form. Regulators are most interested in **timely, actionable** information about their topics of interest, and they have greatly appreciated your contributions over the past several years.

ERRT regularly surveys regulators about their top technical issues, and in 2019 launched an annually updated portal containing both public and regulator-only resources on those issues. These resources include relevant technical articles, publications, and presentations, as well as a list of well-known and respected subject-matter experts (SMEs) who assist in vetting technical articles and are willing to take emails and phone calls from regulators on their areas of expertise.

### Technical Topics for 2022

#### 1. Idle and Orphan Wells and Sites

- Current technologies for locating orphan wells without good record
- Assessing condition and risk of idle and orphan wells
- Reclamation and remediation technologies
- Beneficial use and repurposing of orphan wells
- Advancements in well decommissioning and plugging technologies
- Cementing procedures for plugging

#### 2. Methane Emissions and Gas Management

- Methane emissions measurement and detection technologies
- Associated gas management
- Monitoring and remediating annular gas migration

#### 3. Carbon Capture and Storage

- Carbon capture technologies
- Mechanics of geological carbon storage
- Ensuring secure geologic storage of carbon dioxide
- Carbon transportation infrastructure

#### 4. Hydrogen

- Hydrogen production technologies
- Hydrogen geological storage and distribution
- Beneficial uses of hydrogen

Throughout 2021, ERRT held a series of well attended (80-120 participants) webinars on the topics identified that year, including cost-effective practices for well abandonment, new technologies for flaring elimination and methane emissions measurement, CO<sub>2</sub> storage management, and hydraulic fracturing techniques.

For 2022, regulators have expressed interest in four topics which are outlined on the previous page with specific subtopics of concern. To address these topics, ERRT will focus on three channels of activity in partnership with technical societies:

- 1) provision of materials to IOGCC regulators,
- 2) recruitment of additional SMEs to help compile relevant material and be available to field regulator questions, and
- 3) development of webinars for regulators on top issues of concern.

ERRT hopes that your organization will assist in this effort by providing materials on the listed topics by April 22nd, helping to recruit relevant and willing SME volunteers (on a rolling basis), and organizing (or advertising) webinars for IOGCC members.

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