



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 the contributions of the technical societies 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

Technical Topics for 2026

2. Effective Plugging

- Long-term performance and integrity
- Techniques to prevent/minimize cement loss
- Alternatives to cement: polymers, resins, or others
- Quality of cement

3. Geologic Hydrogen

- Where is it located?
- Well construction
- Best practices
- Exploration, production, and storage

3. Emerging Technology

- Geothermal
- 3D mapping
- Beneficial reuse of methane instead of burning
- Drones and LIDAR – locating orphaned wells
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4. AI

- Evaluating induced seismicity
- Controlling injection pressures
- Evaluating methane or hydrogen sulfide emissions
- Managing oil and gas records and data

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.

For 2025, ERRT sponsored a series of well attended (80-180 participants) webinars on the topics identified that year, including reuse of oil and gas fields for energy storage, quantification of formation and fault barrier capacity, plugging efficiency and emerging technology in cement/cement bond log evaluation, and concerns for well integrity in extended reach drilling (ERD).

For 2026, 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 the technical societies will assist in this effort by providing materials on the listed topics by April 3, 2026, helping to recruit relevant and willing SME volunteers (on a rolling basis), and organizing (or advertising) webinars for IOGCC members.

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