

Discussion: MONITOR Plans for Field Testing

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Field Testing of MONITOR Technologies

Goal #1: *Gauge technical performance*

- Independent testing and validation will provide a neutral venue to demonstrate technology and system performance
- **First round testing** (year two) will provide an opportunity to demonstrate technologies outside of laboratory tests; this will ensure technologies are tested in a standardized, realistic environment
- **Second round testing** (year three) will provide an opportunity to assess previously undemonstrated capabilities, as well as technical gains made since the first round of testing

Goal #2: *Engage stakeholder community*

- Establishing a testing site also enables MONITOR to materially engage strategic stakeholders early in the program
- This early engagement with industry leaders could facilitate hand-offs and/or post-MONITOR field demonstrations by developers and/or local distribution companies

Selecting a Field Test Site

ARPA-E intends to issue a competitive solicitation seeking proposals from highly qualified organizations and will then select a suitable field test host based on the following general criteria:

Technical expertise

Strong capabilities related to testing, evaluating, and validating emissions detection technologies

Experience

Extensive work in the O&G sector, preferably focused on methane emissions detection and/or mitigation

Reputation

Recognized for high-caliber work

Industry exposure

Familiarity with major O&G industry players

Impartiality

Independent and objective

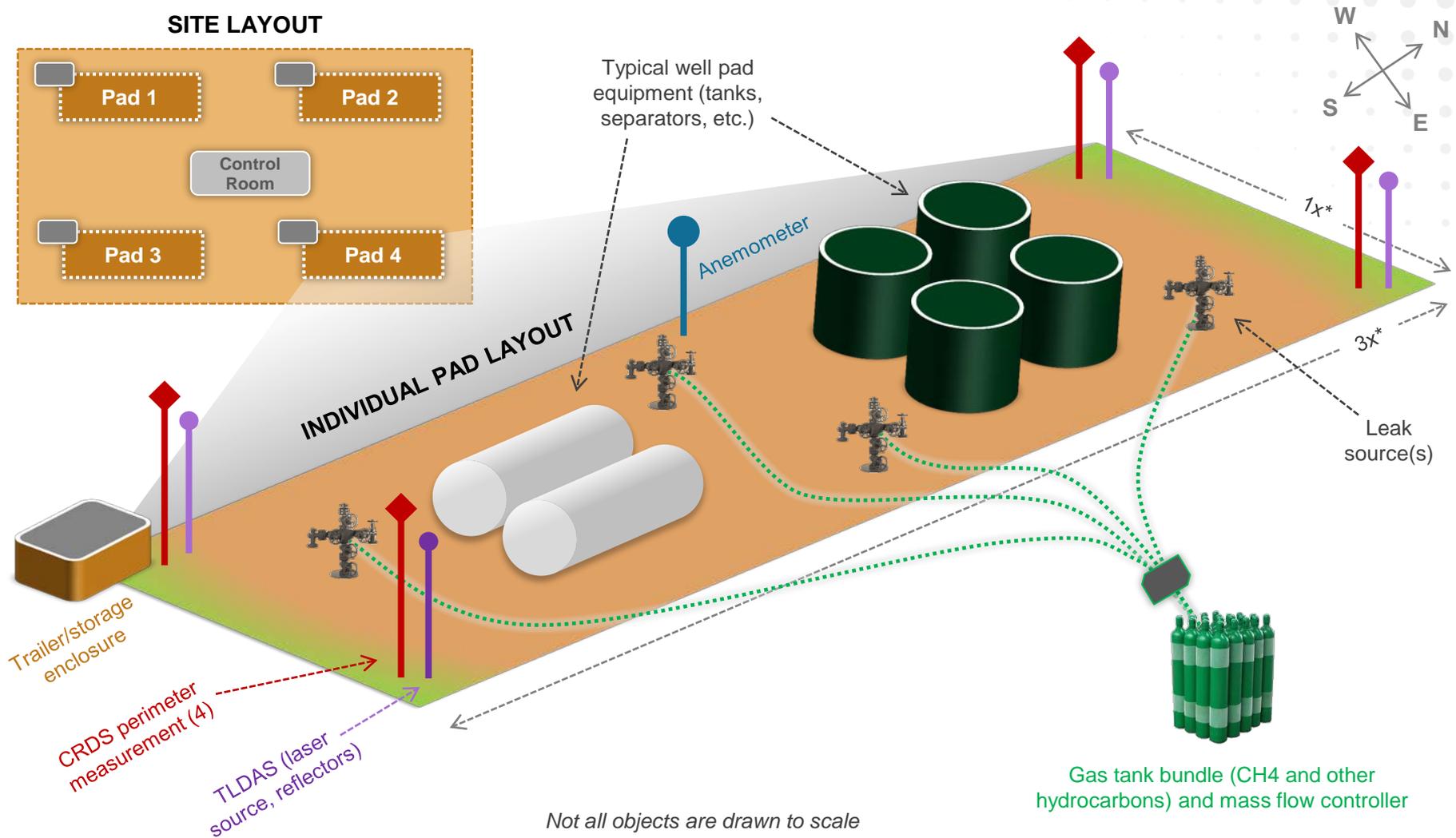
Government experience

Experience working with federal entities in research partnerships

Proximity

Convenient for ARPA-E and performers; relatively easy access to major airport

Example Test Site Layout



Upcoming Request for Information

In the coming months, ARPA-E will issue a Request for Information seeking responses to the following prompts, which will inform future decisions regarding field testing:

1

Describe your team's capabilities, experience, and assets (i.e., equipment and property) relevant to this RFI.

2

Describe your overarching technical approach to the design, construction, and operation of a field test site that can test MONITOR-funded technologies under real-world conditions.

3

Propose a geographic location for field testing and include a discussion of constraints related to resources or site access. Please specify the proximity to major nearby airports, and include a map.

4

Provide a diagram of a notional test site.

5

Provide a budget estimate, including capital and operating expenditures.

The MONITOR Timeline: ARPA-E & Beyond

