

Advanced Materials (Pipelines), Coatings, Liners



- Advanced technologies presented in the liners and coatings area were perceived valuable in the context of a more fuel-flexible infrastructure, but alternative pipeline materials should also be looked at in that context.
- Corrosion coatings and liners are more valuable in the offshore; existing onshore midstream infrastructure focuses more on efficiency coatings.
- Conversion systems will also present a new set of challenges for seals and pipeline materials.
- There was an expression that there may be a need for further consideration of reliable, non-destructive, in-situ testing for materials property characterization.
- There is a need for R&D to address the long-term performance of coatings – some that bond well initially run into dis-bonding issues as early as a year after application.
- The group acknowledged that in the long-term, there would be value in cost-effective, in-pipe, permanent real-time monitoring to reduce or eliminate the need for pigging.
- There may be a need for cost-effective internal coatings on legacy systems with unknown conditions.