



What major needs do we foresee?

- Extended life time of the operating plants
 - Component compliance / aging management
 - Condition monitoring
- Components for SMR reactors
 - Similarity to currently operating plants
- ...

Competencies

- Material lifetime analysis
- Material analysis (chemical, thermal, mechanical, electrical)
- Method development
- Failure / root-cause analysis
- Material selection / qualification
- Education of polymer properties and aging

Tools

- Heat aging, UV aging,
- FTIR, GC-MS, EDX, etc.
- DSC, TGA, microcalorimetry
- Tensile, bending and impact testing
- Electromagnetic measurement methods
- (Electron) microscopy

Interest group input

 Needs to be assessed in more detail level (i.e. system or component scale)

Impact

- Safe and economical operation of currently operating plants
- Knowledge on polymer solutions in SMRs