

6th Regional Review Meeting Session on Alternative Technologies to High Activity Radioactive Sources

Some Findings

Some Participants Expectations

- Gain more information
 - Available technologies, international trends, new developments, etc.
 - 40% of the participants had limited or no knowledge at all of Alternative Technologies prior to their participation
- Better understand the benefits & challenges when shifting towards alternative technologies
 - Cost, performance, relevance to the need and various local constraints and specificities, difference with sources...)
 - 70% believed that end users should be further incentivized to shift
- Listen to those who are using them. Learn more about other countries and their approaches
- Better understand roles and responsibilities of each stakeholders



Available Technologies and Lessons Learned using them

- We focused on Medical Practices (Blood irradiation and Radiation therapy)
- Clear appetite for more information. There is a need to facilitate access to reliable and comprehensive information. There is a lack of confidence in available information.
- Alternative technologies are available and fulfill most of the needs (brachytherapy remains an issue)
- Multiple examples of success stories. We need to better share them.
- Misconceptions still exists (e.g. power supply requirements, costs...)



Available Technologies and Lessons Learned (Cont.)

- Increased performance was mentioned several times. It is often the main driver for shifting.
- Selection of the most appropriate service contract is essential
- Biggest challenges include infrastructure, costs and education (availability) of staff
 - Raise awareness on benefits of alternative technologies amongst decision makers in the organisation and at political level (especially for the medical sector).
 - Ensure initial and continuous training of staff (increase the contribution of vendors)



Supporting the transition

- Establish a mechanism involving all relevant stakeholders
- Clarify their roles and responsibilities
- Have a clear and transparent procurement process to specify the need and select the most suitable technology
- Consider better engaging with customers/clients as a possible driver for the change (mostly for industrial practices)
- Involve the regulator while maintaining its independence (communication vs. promotion)
- Regulators have a large panel of tools to support the shift, including banning certain equipment



Supporting the transition (Cont.)

- Engage decision makers through education and awareness
- Address medium and long term issues up front
- Ensure a proper management of disused sources. Do not create a risk somewhere else
- International programmes have an essential role to play (e.g. NNSA programme to replace Cs-137 blood irradiators)



Way forward

- Support the sharing of operational experiences. Communicate better on success stories. Identify champions/ambassadors to be used as references for others.
- Work with industry and all organisations involved in the supply chain to facilitate the procurement process.
- Help end users to evaluate their needs and select the most appropriate technologies (Guidance documents)
- Offer forums of exchange and opportunities to access reliable information (Regulators could advice their licensee to attend these events)
- Address end of life management
- Coordinate international programmes and develop regional approaches





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