

CASE STUDY:

Medical Radioisotope and Research Reactor – MRRR



KEY INFORMATION

SITE:

Trawsfynydd

PROJECT VALUE:

£70,000 - £90,000

PROJECT TIMING/DURATION:

3 months

Project Overview

Radioisotopes are widely used in the industrial, environmental and health sectors. Recent government analysis indicates, that due to the planned closures of three European isotope producing reactors, that there is a risk to the security of isotope supply; In particular the secure supply of medical radioisotopes used in both diagnostic and therapeutic procedures. Based on this analysis Welsh Government has commissioned an Optioneering Study to examine the opportunities for ensuring a secure and sustainable supply of medical radioisotopes to the UK.

Details on solution/approach

The current approach to the project includes the following:

- Review of existing and new technologies, which may be able to supply medical radioisotopes and investigate all other uses for the technologies assessed.
- Identify the demand for neutron applications and confirm the alternative uses afforded by a MRRR.
- Assess the site options for delivery of a solution and examine the potential funding models, which could be applied to the development of a MRRR.
- Report on the outcomes and identify a preferred option to take forward for more detailed analysis during the next stage of works.