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IGORR - IAEA Joint Conference 2017

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Nuclear Industries and Operations in Australia

- Australia does not have a nuclear power industry; nuclear related activities/industries include:
 - Expanding uranium mining industry; three mines operating and a further three scheduled to begin production in the near future.
 - Seven cyclotrons for radiopharmaceutical production
 - Operation of a 20MW research reactor (OPAL) for radioisotope production, NTD Silicon and thermal/cold neutrons (ANSTO)





ANSTO overview

Formed in 1953

HIFAR critical 1958

>\$1 billion assets under management

Annual turnover > \$350 million

Circa 1200 employees; 300 Ph.D.'s

OPAL Reactor Critical 2006





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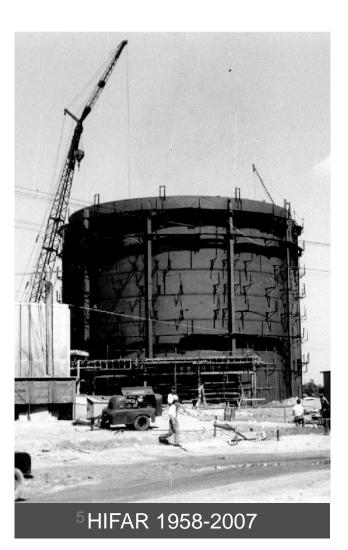
OPAL Research Reactor



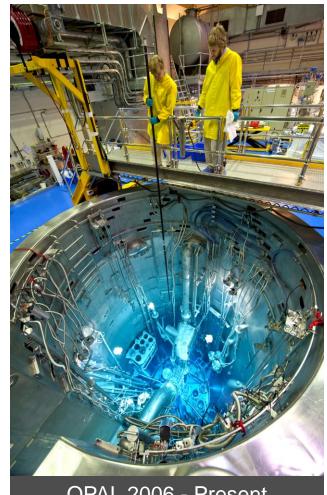


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Australian Research Reactor History







OPAL 2006 - Present



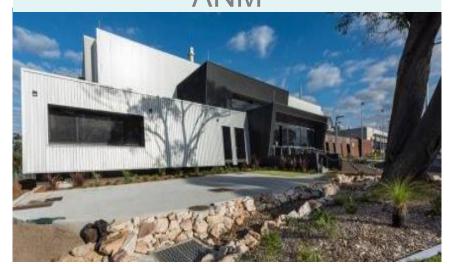


ANSTO Nuclear Medicine

- Fully operational Q1 2018
- Mo-99 facility; 3,500 6 day Ci per week
- Proven, reliable, LEU-LEU technology
- Integrated operations with OPAL Reactor
- 25% of World Mo-99 demand
- World's first full scale Synroc waste treatment plant



Mo-99 Facility ANM

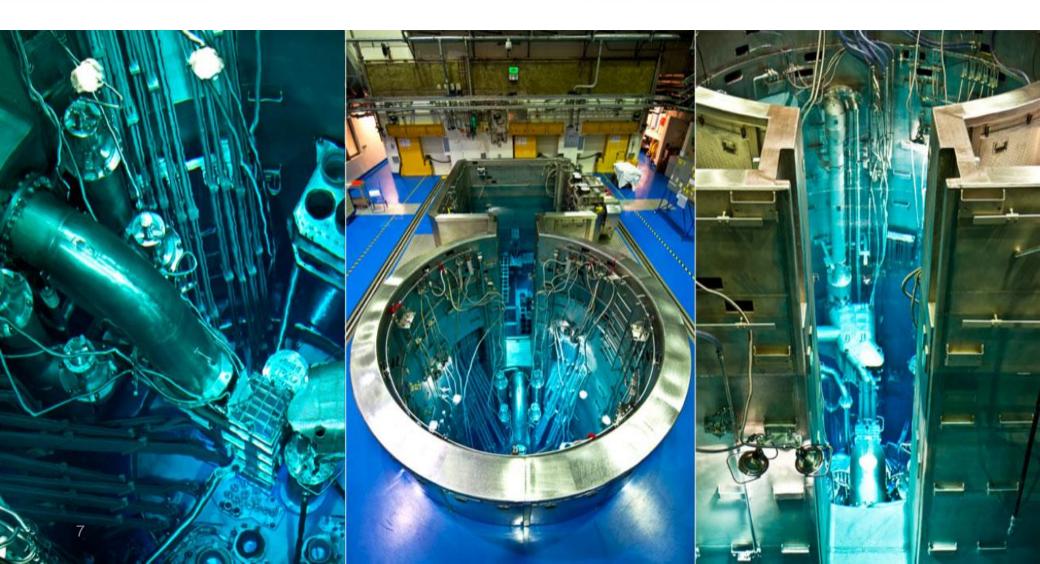


Synroc Waste Plant





LEU/LEU Mo-99





OPAL Operations

