

Celebrate the 10th Anniversary of the GE Test Research and Development Centre

On February 1st, 2012 the GE Test Research and Development Centre (TRDC) officially began operations. This globally unique facility continues to evolve to meet the ever-changing world of commercial aviation.

In 2018, a major facility upgrade was undertaken in order to test the GE9X engine, the world's largest aero-engine that powers the Boeing B777X. This \$26M facility growth package added to the \$54M already invested by GE and government. Further government support in the amount of \$1.6M was provided in 2018-2019 to design and fabricate an adapter for the new facility to enable testing of smaller commercial engines.

GE continues to explore testing related to its sustainability efforts, ~~on~~ such as alternative fuels and novel engine design concepts.



The GE 9X shown here is used on the Boeing 777X and is the largest & highest thrust aircraft engine in the world.

This facility is unique in Canada and one of only two facilities in the world, employing a wind generator, or open circuit wind tunnel, to supply a conditioned and representative air flow to the inlet of an engine undergoing developmental testing and certification.

The TRDC, is a showcase of government/industry cooperation bringing economic and human resource development opportunities to Manitoba, western-Canada, and the Canadian Aerospace sector. This globally unique facility was established to perform research and development testing of GE Aviation's fleet of aero-engines which represents in excess of 65% of the world's installed commercial aircraft engine fleet. The TRDC's original focus to simulate icing conditions has expanded to include other types of development tests such as bird, dust and hail ingestion and other severe operating environmental tests. GE Aviation teamed with StandardAero, the world's largest independent supplier of aero-engine overhaul services, which operates this advanced technology development complex.

Engine Test Campaigns Undertaken at the TRDC

Engines Tested	GENx	LEAP	Passport	HF120	GE9X
Aircraft Applications	Boeing 787, 747-8	Airbus A320 neo, Boeing 737 MAX, Comac C919	Bombardier Global 7000/8000	HondaJet	Boeing 777x

Daniel Verreault
GE Director for Canada MSO

Help us applaud this amazing Manitoba and Canadian success story!

Michael Rodyniuk
WestCaRD Chair of the Board of Directors