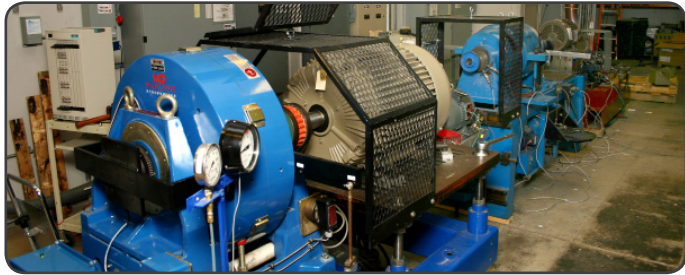


# Our History of Electric Motor and Drive Testing



**1989**

Advanced Energy builds the first dynamometer in its lab.

**1992**

AE works with the DOE to determine how motors should be tested for compliance with the new Energy Policy and Conservation Act.

**1998**

EPCA becomes law and gives motor manufacturers two years to become compliant. AE introduces PEV Program, a motor repair quality control program.

**2001**

About 70 percent of all compliance certifications (CC#) issued to motor manufacturers by the DOE are delivered with AE's assistance.

**2004**

AE adds motor reliability testing for OEM clients.

**2006**

AE helps Pentair Water secure funding for new energy efficient product launch and expands motor reliability test capability.

**2009**

Tested motors for DOE and stakeholders to establish new minimum efficiency standards for small electric motors.

**2012**

AE becomes the first motor efficiency testing laboratory located outside of Mexico to receive Norma Oficial Mexicana designation for single-phase (NOM-14) and three-phase (NOM-16) motors.

**2014**

AE selected as Third Party Auditor for EASA Accreditation Program.

**2016**

First two manufacturers (Schneider Electric and Danfoss) with variable frequency drives listed by the Air Conditioning, Heating, and Refrigeration Institute as certified to AHR1210/11. AE is the only lab in the world accredited to test to this standard.

**1991**

AE develops the Horsepower Bulletin for the U.S. Department of Energy.

**1997**

AE achieves NVLAP compliance, the first motor lab in the world to be accredited by the National Institute of Standards and Technology for motor efficiency testing.

**1999**

AE develops corporate motor policy for BASF. First motor manufacturer achieves compliance with EPCA using AE's testing and consulting.

**2003**

AE is awarded the DOE grant for the 100 Motor Study.

**2005**

The DOE awards AE a grant to help develop "motor controllers for electric vehicle markets." AE celebrates 25 years of public benefits for North Carolina and beyond.

**2008**

AE adds a DC generator for zero to 500v DC, 510 Amp continuous power for DC motor testing. Begins work on EISA Motor Regulations.

**2010**

AE worked with the South Korean government to create the first NVLAP lab in Korea.

**2013**

AE adds IEEE-114 testing under NVLAP certification. Enters Safety Testing for Motors under UL partnership.

**2015**

American Electric Power Launches EMotor Rewind Pilot.

**2017**

AE invited to join global VFD round robin testing for validating IEC 61800-9-2 standard.

**2019**

AE achieves Certification Body (CB) status (ISO 17065) and can issue motor efficiency certification.

