

Electric Motor and Drive Testing History



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 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 AHRI1210/11. AE is the only lab in the world accredited to test to this standard.

2018

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

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."

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.

2020

DOE recognized AE as a national certification program and AE delivered motor efficiency certification to its first participant.