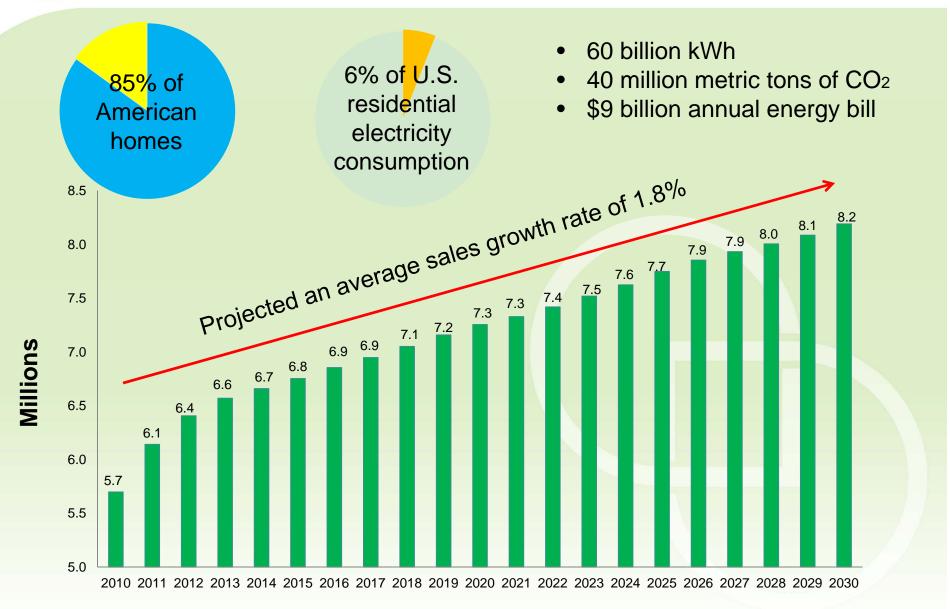


Clothes Dryer Laboratory Testing: Project Summary

ENERGY STAR Partners Meeting
October 2012



Clothes Dryer Energy Consumption





Products Tested

European Heat Pump Dryers



North American Conventional Dryers





European and North American dryers are different sizes, but can dry the same amount of clothes







Testing Summary

Each of the following tests were conducted:

- Primary testing: (3 runs per test)
 - DOE 2005 ENERGY STAR Emerging Technology Award
 - DOE 2011 ENERGY STAR Label
- Additional testing: (1 run per test)
 - DOE 2011 (w/ AHAM test cloth)
 - DOE 2011 (w/ IEC test cloth)



Real World Clothing



DOE Test Cloth



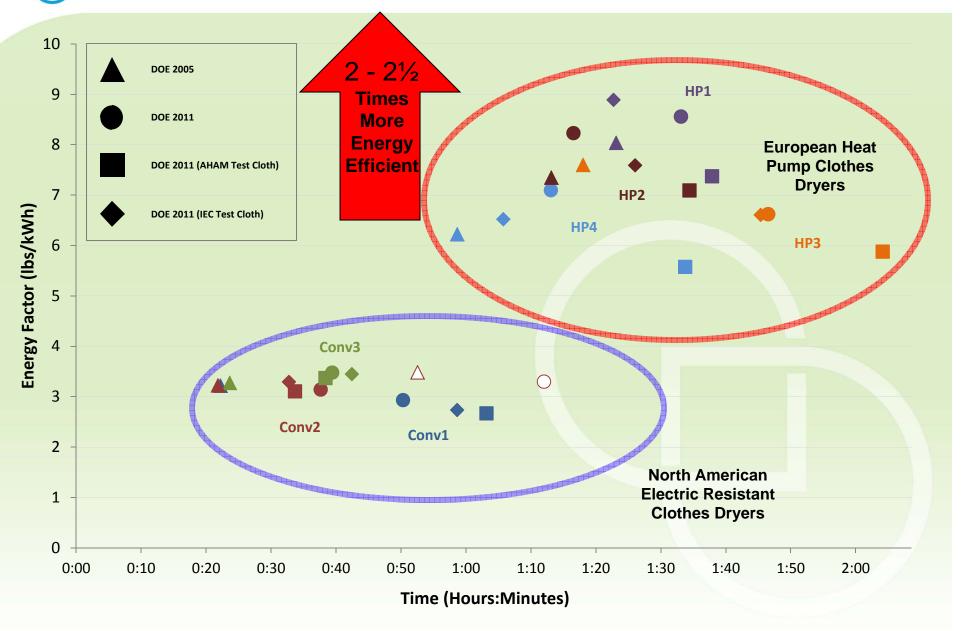
IEC Test Cloth



AHAM Test Cloth

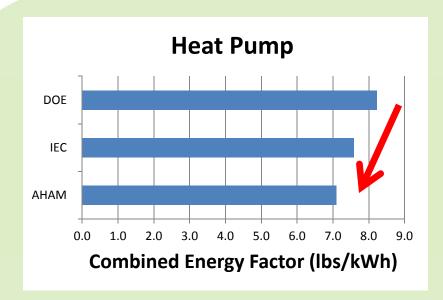


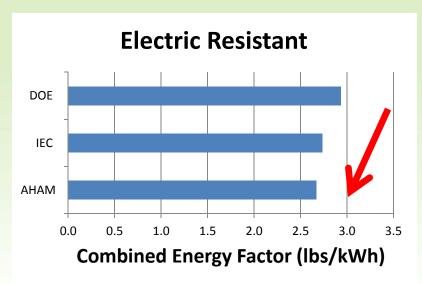
Clothes Dryer Performance





"Real World" Clothing



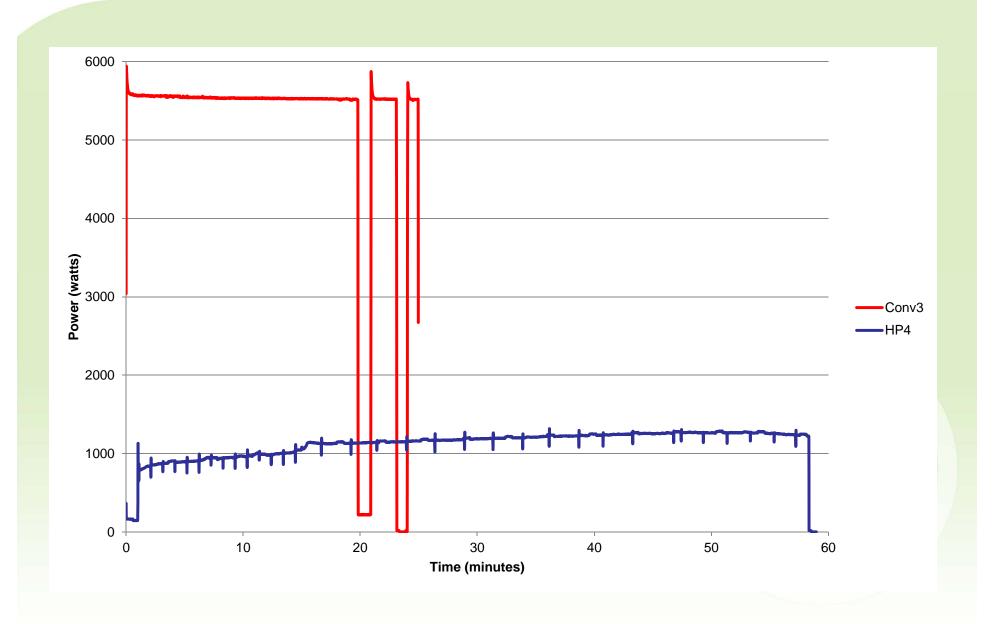


Dryer efficiency decreases the more closely the test load resembles "real world" clothing





Power Demand

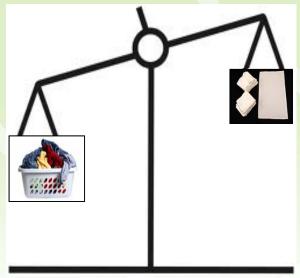




Conclusions

- Super efficient clothes dryers are a substantial opportunity for North American energy saving
- Super efficient clothes dryers have a smaller power demand profile
- To meet consumer expectations, a North American super efficient dryer might be a hybrid
- Clothes dryers consumer more energy when drying "real world" clothing

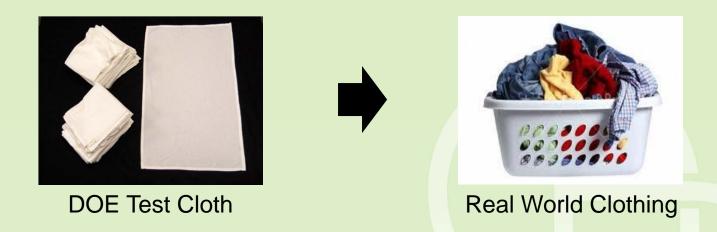






Additional Research Needed

1. Develop a "correction factor" to calculate "real world" energy consumption from manufacturer testing.



2. Assess the performance of a super efficient dryer built for the North American market.



For more information please feel free to contact the project manager:

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