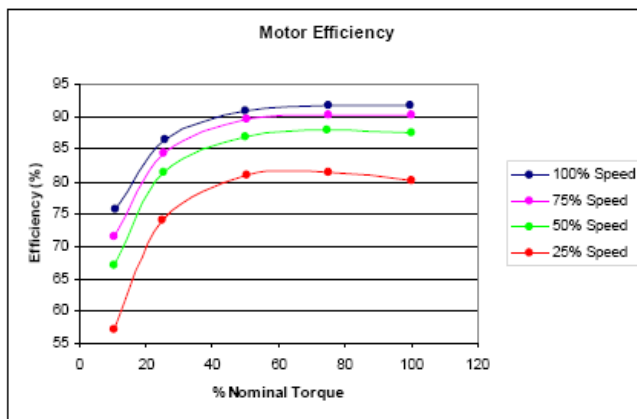


EC systems outperforms Motor + VSD

Fan systems in air handling units or condensers or ventilation applications often use standard motors coupled to VSD/VFD drive systems.

Motor and VSD efficiencies comprise the motor and VSD efficiencies and these reduce dramatically with torque and speed as shown below (after Pierre Angers, Hydro Quebec, MEPSA Sydney 2009).

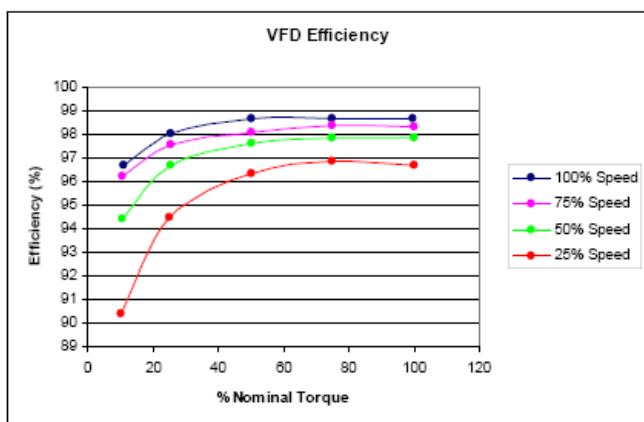
Preliminary Results



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Preliminary Results



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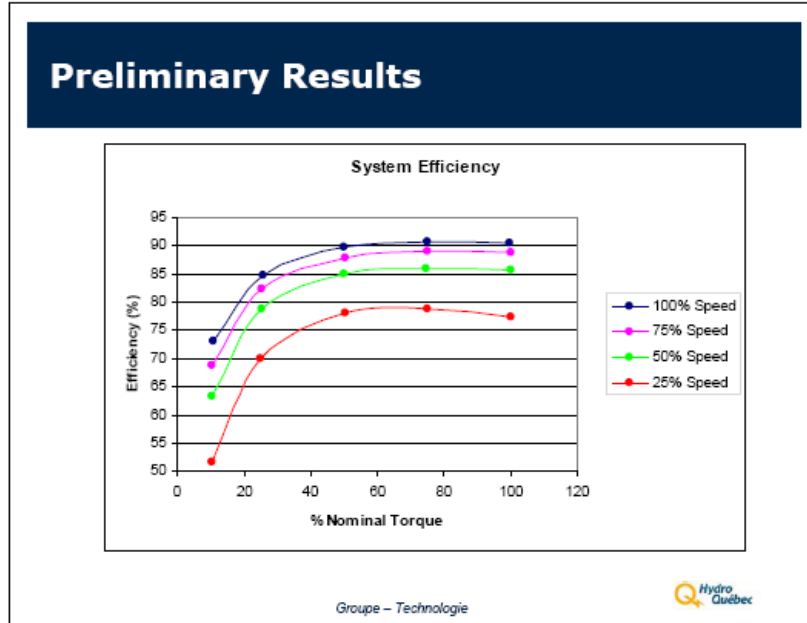
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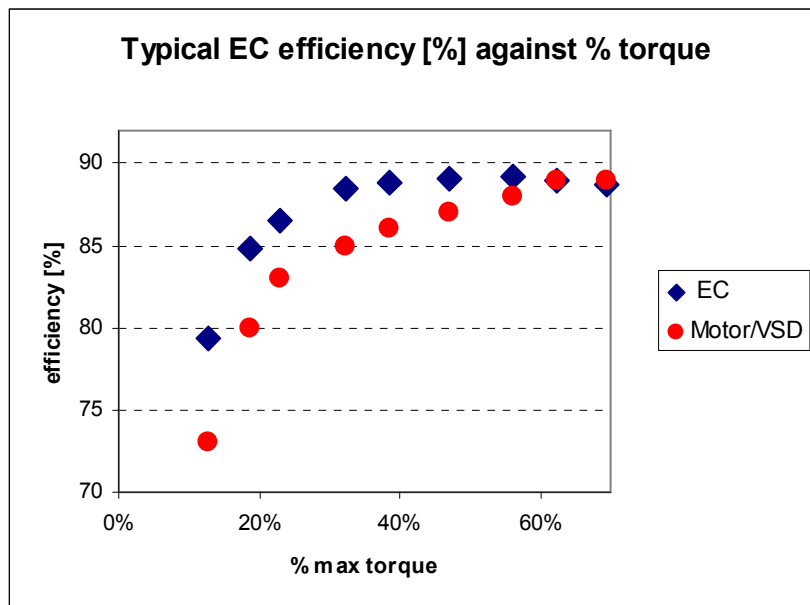
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EC systems outperforms Motor + VSD

This data shows that AC motors and VSDs reduce in efficiency at 60% of torque and reductions of up to 20% efficiency occur.



Typical EC system data (note and EC motor comprises a motor and a control system) is shown below. This shows minimal drop off in efficiency in the useful range, >30%.



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