

## Fan and motor regulations—ebmpapst solutions

Our governments are moving forward combating climate change.

This will effect us in several ways:

### **Electricity prices**

Below is the ramifications on pricing of electricity according to the Ai Group as a result of some proposals in CPRS.

Although the details are debateable we can conclude:

**Electricity prices will increase within the life time of ebm-papst EC system solutions.**

## CPRS

Practical Impact: Illustrative Wholesale Electricity Price Rises

State	2008 Average (\$/MWH)	2010		2020	
		<i>Permit Price Assumption (\$increase/MWH)</i>			
		<i>\$23 per tonne</i>		<i>\$47 per tonne</i>	
NSW	48.60	16.79	44.18		
QLD	54.90	14.26	42.77		
SA	72.00	17.48	28.67		
TAS	-	7.82	27.26		
VIC	50.81	18.63	44.18		
<i>Weighted Average NEM</i>	-	<i>16.10</i>	<i>41.36</i>		

 AUSTRALIAN INDUSTRY GROUP

**Investment in ebm-papst EC fans and systems is a low risk investment choice.**

### **MEPS motor standards**

Existing MEPS for standard IEC motors is currently being reviewed and improved upon. New global agreements or IE standards are being investigated and are likely to be adopted locally.

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Quieter, better fan solutions

**ebmpapst**

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The following is proposed:

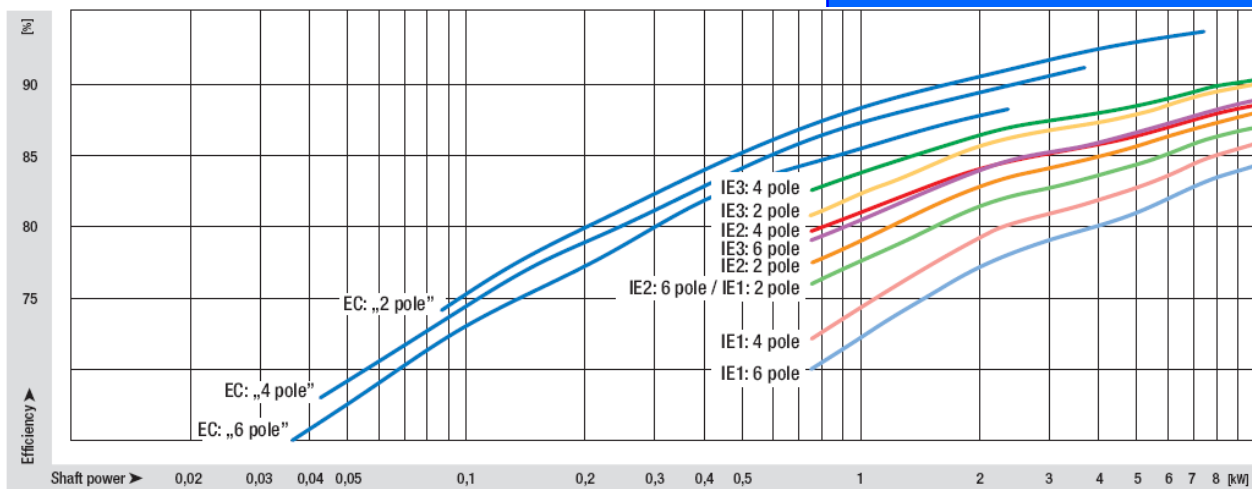
**MEPS1(local) = EFF2 (Europe) = IE1 (international)**

**MEPS2 = EFF1 = IE2**

**MEPS HIGH Efficiency = ?? (Europe) = IE3**

**IE4 = new target for international motor efficiencies.**

Ebm-papst has met this challenge in it's development of EC motors as shown below: a table of typical motor efficiencies.



This data shows that EC products from ebm-papst is leading motor technology.

### Fans standards

Fans standard are being developed as ISO 12759. This is due for release in May 2009.

This uses fan efficiency and specific fan power to regulate performance.

It is anticipated that some centrifugal fan products that generate excessive dynamic pressure will be affected.

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