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Frequency Converters for Energy efficiency

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Schneider Electric Power Drives

Focus and strength

- **HHP Development and Production**
 - 30 years experience in high power low voltage drives
 - Power Range up to 2400kW.
- **Customer specific solutions**
 - Automotive Industry (combustion engine test stand)
 - Tunneling, Plastic Industry
- **Engineered Drives Solution**
 - Design of drive solutions
 - Enclosing and mechanical integration
 - Cooling
 - Integration into existing power and automation structures
- **Fluid Cooled Drives**
 - 15 years experience in fluid cooled drives
 - Standard and Customized solutions



JLJ1 Please prepare your first sentence
Introduce the link with Booth
demowall
all conference link to this one
where customer can see you to share after the seminar (booth, meeting point ,)
Your visit card , mail, phone ,
Jean-Luc Jouas; 03.06.2008


LV Frequency Inverter

- 2010: actual aspects of energy saving with frequency inverter
 - **Control speed** -> save energy
 - **Control speed** -> reduce maintenance -> save resources
 - **Low consumption devices** (act. efficiency faktor 97,5 – 98%)
 - New technologies? No, only fine tuning
 - **Optimised usage** of drives
 - yes!
 - **Optimised engineering**
 - How?

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3

Frequency Inverter history

- 1979: ELIN UNION AG delivers first Frequency Inverter (1. Gen)
1st Inverter Customer is OMV (Oil & Gas)
Application: = Pump!!!
Intention: Saveing Energie!

- 1980: Freq. Inverter as Product: ELIN UR-I
The 2nd Freq.Inv. Generation provides a powerrange from 55 – 500 kW!
- 1987... 3. Generation – a Technologie leap
1st Voltage sourced Freq. Inverter
Intention:
 - Increase the usebility
 - Reduce costs

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4

Frequency Inverter history

- 1995: 5. Generation: IGBT Technologie

Intention:

- Increase drive performance
- Reduce costs

- 2005: 6. Generation: IGBT Trench Technologie takes place

Intention:

- Reduce switching losses
- Improve EMV problems
- Reduce costs

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5

**Make the most
of your energy**

Schneider
 **Electric**

JLJ16

Make the most of your energy

- Huge potential of energy saving through the use of inverters
- Typical pay back time 1 year for pump and fan applications
- Efficiency is an important factor for high power drives



> 40% less energy with inverter speed control

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7

JLJ15

Schneider Electric...

...an experienced partner

- 30 years Know How in LV & MW drives design, production and application
 - Customized solutions
 - Air – or liquid cooled

- Typical Applications

- Power
- Metals, Minerals, Mining
- Oil & Gas
- Water
- Plastic



> 30 years experience in high power drives

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8

Folie 7

JLJ16 Use only big title , what you say is not written on the slide
just the main point
use graph, picture LINKED to the point with added value
no picture for esthetic , all must have added value
use sound if needed

>>> all your texte in commentaire file

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Folie 8

JLJ15 Now we are straitfoward
Say clearly what you want to demonstrate
Put all comment in the commentaire file

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