

SPARES IN MOTION



The last phase

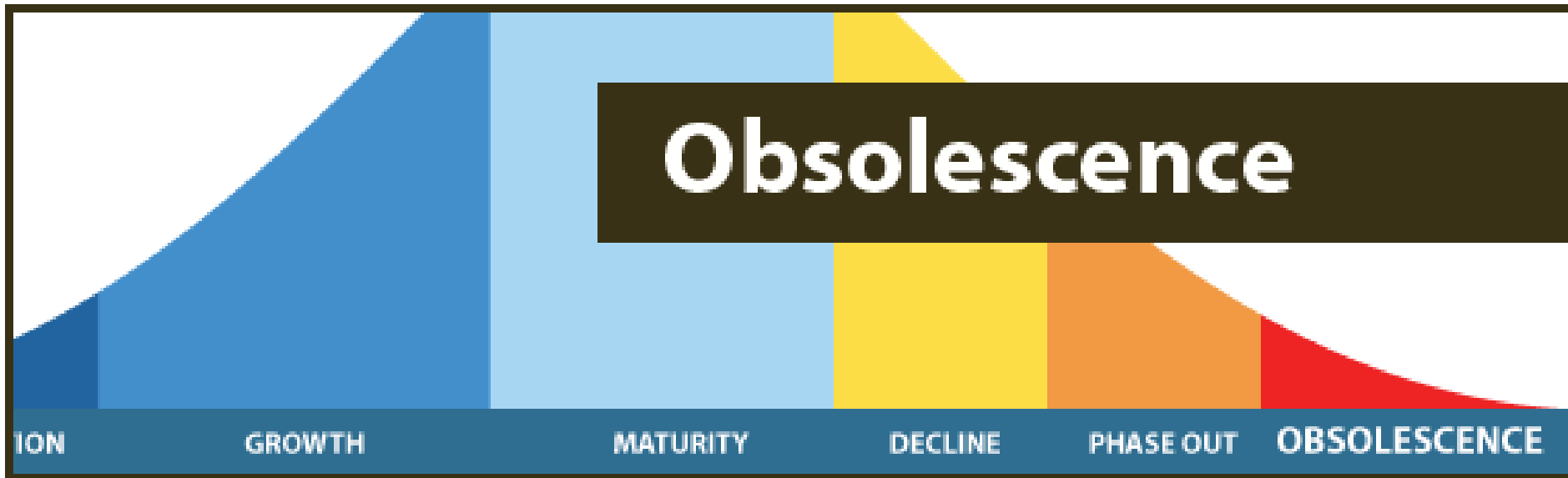
Dismantling wind turbines in Germany and France
May 21, 2019 Paris

Jochem Sauer
Managing Director



The last phase of your wind turbine life time

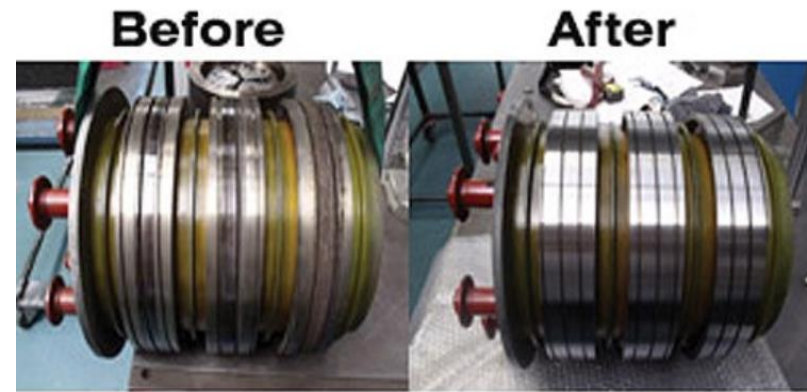
The growing Risk for Spare Part Availability



- Maintenance costs are increasing
- Income is reducing

- Availability of parts is getting a problem
 - Stop series production, obsolescence
- Purchase prices of new parts are increasing
- Parts break down more often, electrical parts are aging
- Support wind turbine OEM's is reducing
- Wind turbine uptime is getting less
- No government stimulation funds any more

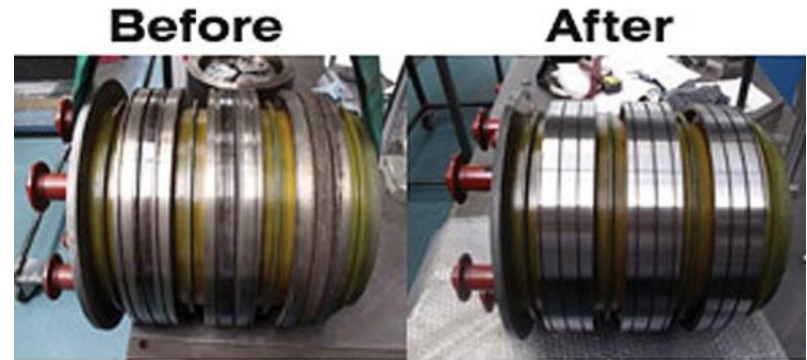
What can you do?



- Do nothing
- Invest in your turbine
- Reduce cost
- Repower

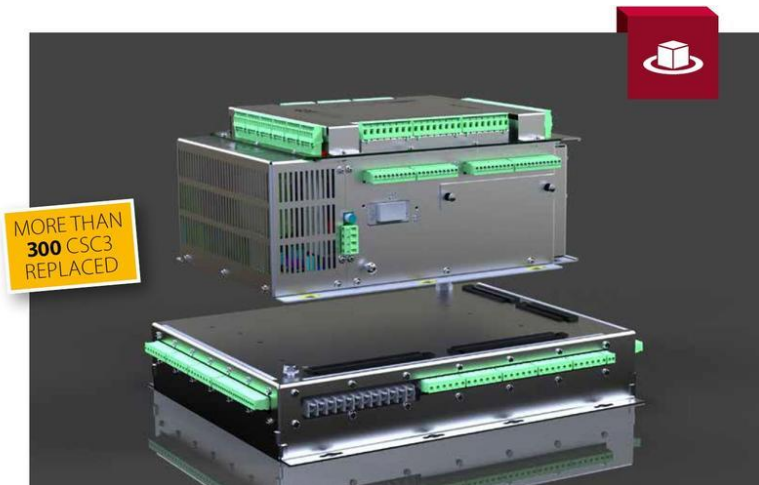


What can you do?

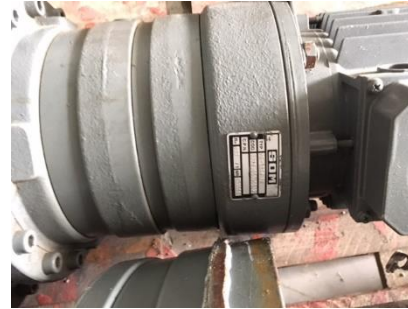
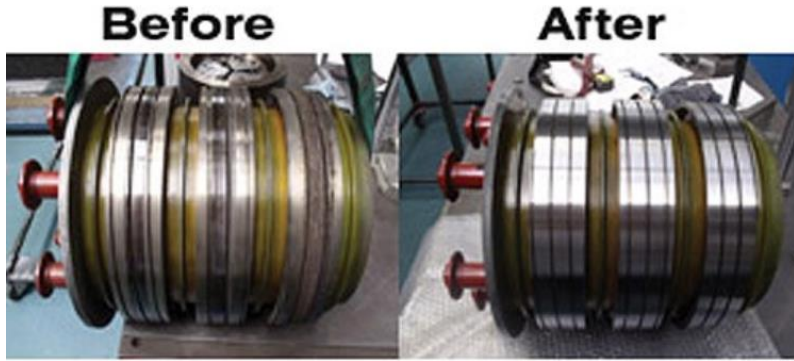


Prepare and be ready!!!





- Invest in your turbine to keep it running
 - Many options available
 - Ask you technicians
 - We are not the specialist



- Repair versus replace
- Purchase used parts
- Purchase alternative parts





- Sell turbines as a complete turbine or in pieces.
- Use your decommissioned turbine to keep the others running
- Increase your value with your paper work!
 - Maintenance history
 - Inspections reports, borescope
 - Pictures
- Start on time with your sales process, eliminate storing and transport cost



SOM PG1004PR

- ✓ SOM Yaw gear for Bonus 1.3
- ✓ WNF motor 600 Kw/44.3 2 MW
- ✓ Condition: *Used*
- ✓ *Delivered on request*

[Click here](#) to claim this offer!

Price: € **1,250.-**



Winergy PEAS 4375.4

- ✓ For Bonus 1.3
- ✓ **Only 5** gearboxes available
- ✓ Condition: *Used*
- ✓ **Within 24 hours!** (est. lead time)

[Click here](#) to claim this offer!

Price: € **19,000.-**



LM 29.0 P

- ✓ Blade set LM 29.0 P
- ✓ For Wind turbine: Bonus 1.3
- ✓ Condition: *Used*
- ✓ **Within 24 hours!** (est. lead time)

[Click here](#) to claim this offer!

Price: € **5,000.-**



Hub for Bonus 1.3

- ✓ Wind turbine brand: NEG Micon
- ✓ AN Bonus (Siemens) wind turbines
- ✓ Condition: *Used*
- ✓ *Delivered on request*

[Click here](#) to claim this offer!

Price: € **4,000.-**



ABB HXR 500 LN 4/6

- ✓ AN Bonus (Siemens) wind turbines
- ✓ 1300/250kw
- ✓ Condition: *New*
- ✓ *Delivered on request*

[Click here](#) to claim this offer!

Price: € **22,500.-**



Winergy PEAS 4375.4

- ✓ Gearbox Flender
- ✓ AN Bonus (Siemens) 1.3 MW/62
- ✓ Condition: *Used*
- ✓ *Delivered on request*

[Click here](#) to claim this offer!

Price: € **19,000.-**



Complete Control Cabinet

- ✓ For AN Bonus (Siemens)
- ✓ Bonus 1.3
- ✓ Condition: *Used*
- ✓ *Delivered on request*

[Click here](#) to claim this offer!

Price: € **4,000.-**



Complete Nacelle

- ✓ For AN Bonus (Siemens)
- ✓ Bonus 1.3
- ✓ Condition: *Used*
- ✓ **Within 24 hours!** (est. lead time)

[Click here](#) to claim this offer!

Price: € **40,000.-**

- Which main component will have the steepest value reduction when de-commissioned
 1. Blades
 2. Generator
 3. Gearbox
 4. Control cabinet
- What item has the lowest value reduction when de-commissioned
 1. Blades
 2. Generator
 3. Gearbox
 4. Control cabinet
- What will be the most sustainable end of life scenario?

- Who in the audience did already decide to decommission,
 - Main argument
 - What to do with turbine
 - How did you prepare
 - What kind of agreement do you have with replacement company

SPARES IN MOTION

Need support, just ask!

Support@sparesinmotion.com

YOUR GATEWAY TO SOURCE WIND TURBINE PARTS