

# Introduction of GETEC Co Ltd



Add: No.41, Lane 68 Xuan Thuy, Cau Giay, Hanoi

CEO: Dr. Vũ Xuân Hùng

Email: [hung.vu@getec.vn](mailto:hung.vu@getec.vn); [hung.vu.getec@gmail.com](mailto:hung.vu.getec@gmail.com)

Mobile phone: 0858821878

Website: [www.getec.vn](http://www.getec.vn)

# Leader Team

- GETEC stands for Green Energy Technology. GETEC is leaded by a group of scientists and engineers in electrical and electronic engineering, civil and construction engineering, mechanical engineering:
  - Dr. Vũ Xuân Hùng, electrical and electronic engineering
  - Dr. Đinh Văn Nguyên, civil and construction engineering
  - Eng. Phạm Văn Hùng, electric construction and network engineering
  - Dr. Phạm Trọng Hòa, mechanical engineering

Our leaders have 20 years experience in electrical, electronic, civil and mechanical engineering:

CEO, Dr. Vũ Xuân Hùng got a PhD degree in Netherlands and had over 12 years working in The Netherlands and Germany for hi-tech companies in wind power such as Setec wind power, XEMC-Darwind.

Dr. Đinh Nguyên has over 10 years working in Netherlands and Iceland in the wind resource assessment, wind turbine foundation and construction, design of wind farm.

Eng. Phạm Văn Hùng is an expert in electrical construction, network and transformer station.

Dr. Phạm Trọng Hòa received PhD's degree in mechanical engineering in Germany. He is an expert on mechanical construction and cranes.



# GETEC's Inspection Services

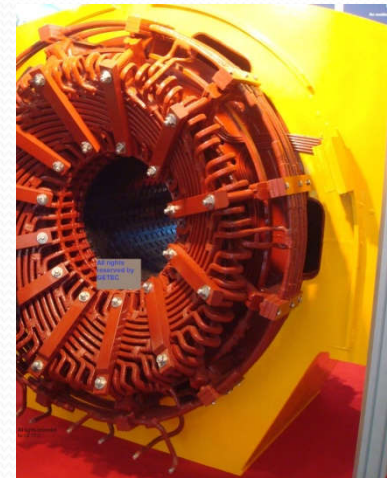
- GETEC provides inspection services complying with the IEC or IEEE standards for testing and manufacturing power/distributed transformers, electric machines, switchgears, high voltage cables, power electronics converters, electric power plants (especially wind turbines and solar power plant), etc.



Transformer



Switchgear

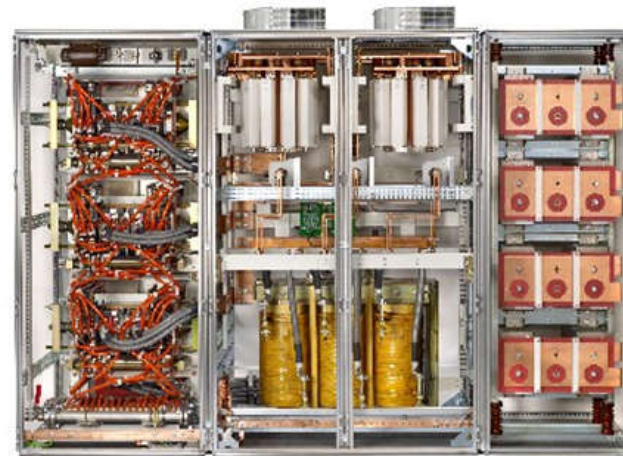
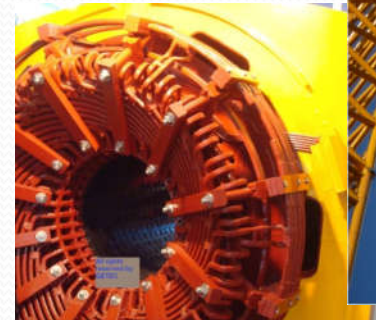


Generator



# GETEC's Consultancy

- Power and distributed transformers
- High power electric machines
- Power electronics converters
- Grid connection
- UPS and charging system
- High voltage cables
- Switchgears
- Wind turbine
- Solar power plant



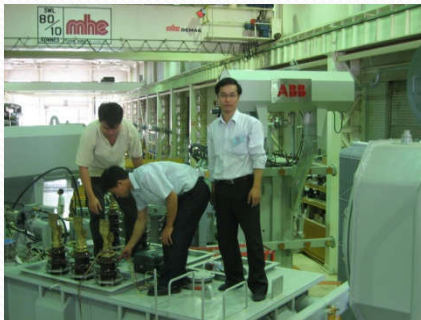
Inverter Cubicle    DC Busbar Connection Cubicle & Motor Output    Capacitor Cubicle





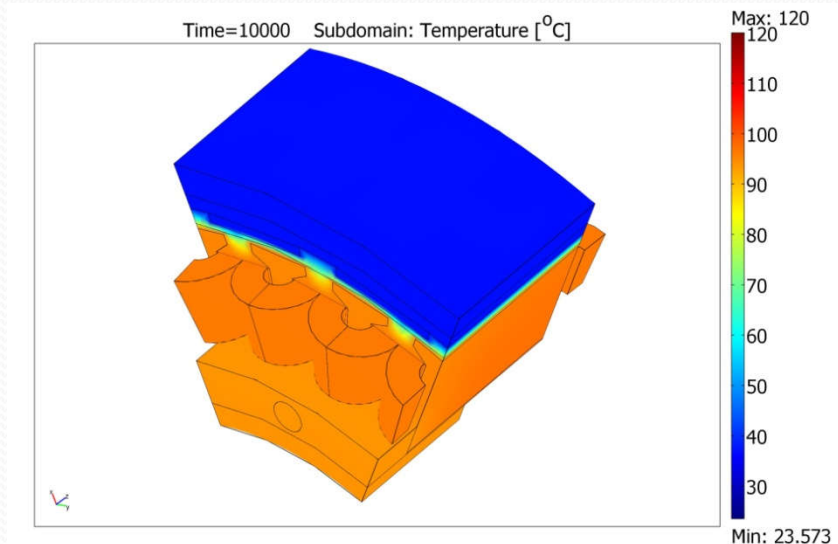
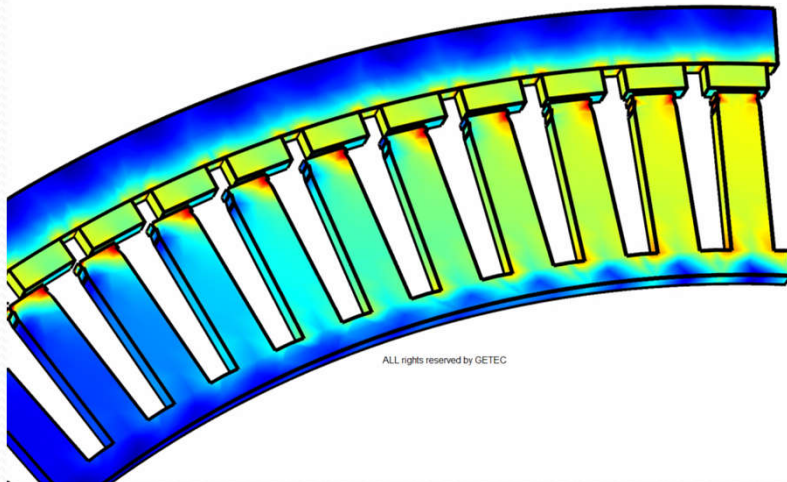
# GETEC's Transformer Consultancy

- All aspects of a transformer, but more focus on:
  - Factory acceptance test according to IEC and IEEE standard.
  - Consultancy of maintenance and fault diagnosis.



# GETEC's Electric Machine Consultancy

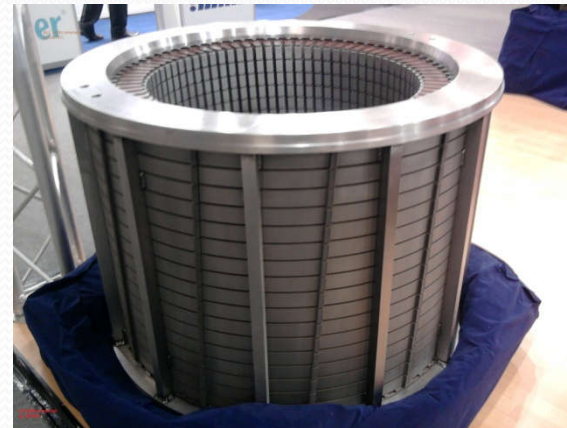
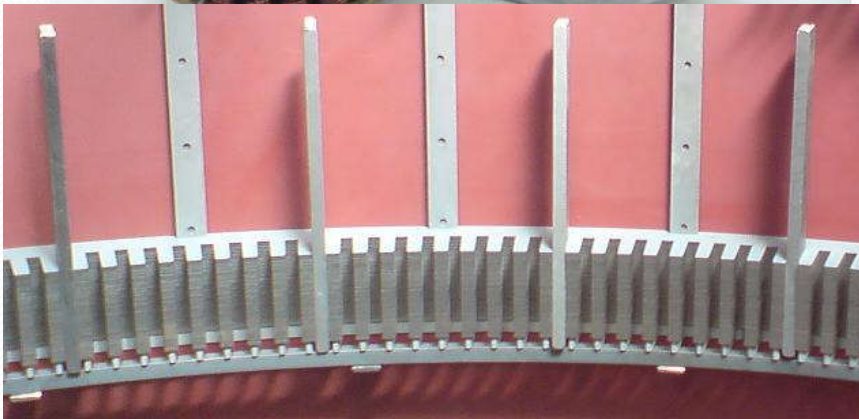
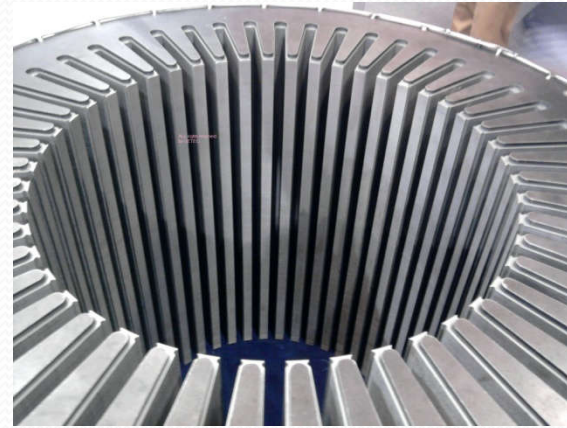
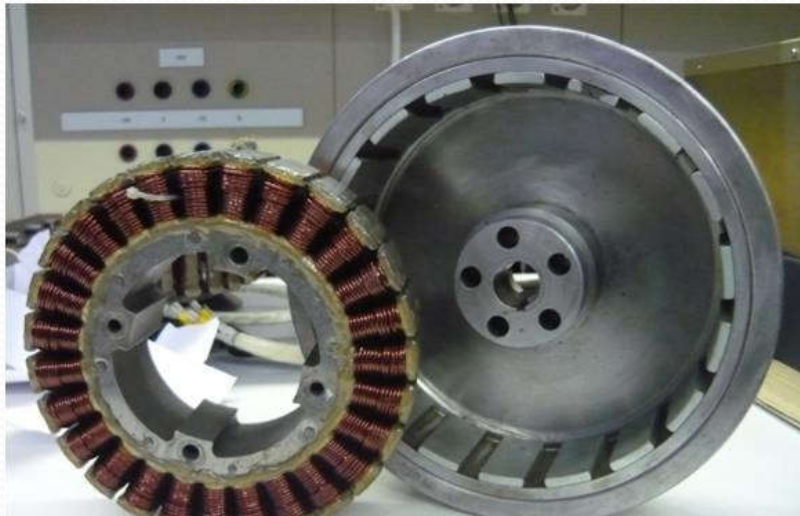
- Review and check design of electric machines based on electromagnetic, thermal, mechanical FEM computation.
- Testing consultancy complying with IEC or IEEE standard





# GETEC's Electric Machine Design

- Design of special electric machines for special purpose





# GETEC's Wind Turbine Consultancy

- Design or review of existing design of generator, cables for wind turbine.





# GETEC's WT Foundation Consultancy

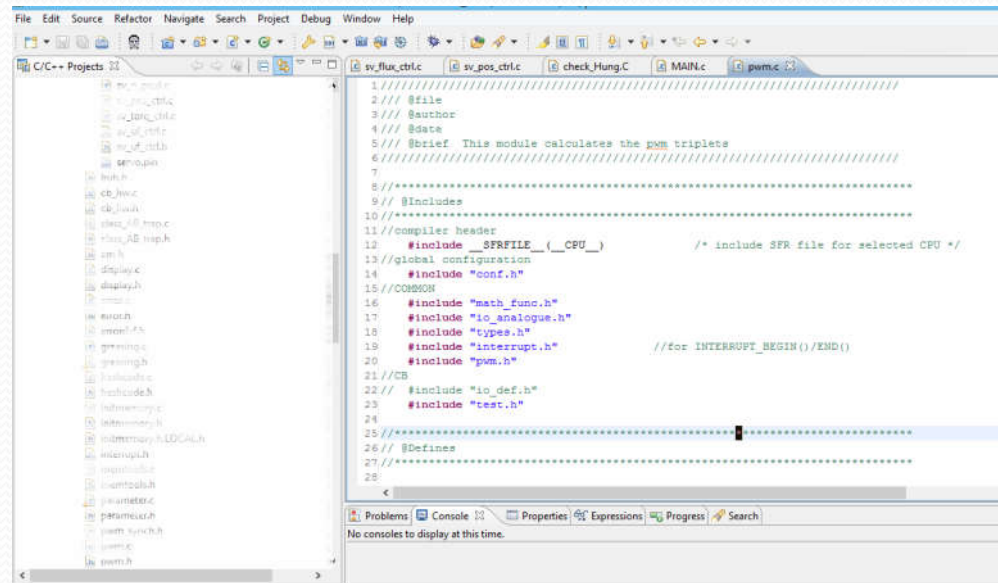
- Consultancy of foundation, construction and mechanics of wind turbine.
- Design of wind farm.





# Embedded System for WT

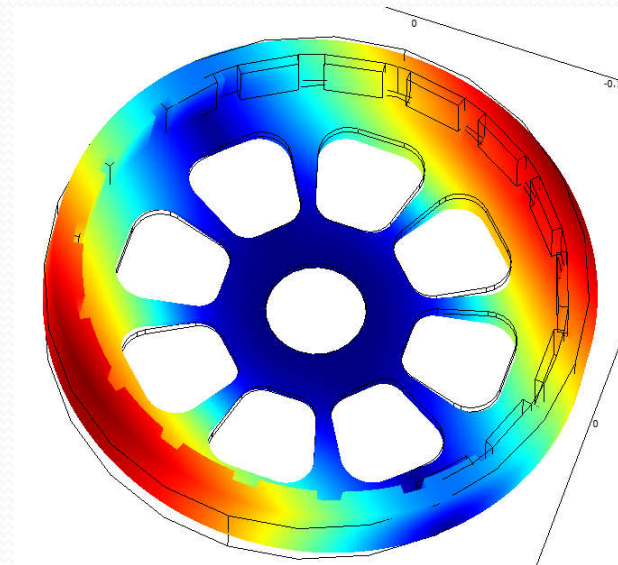
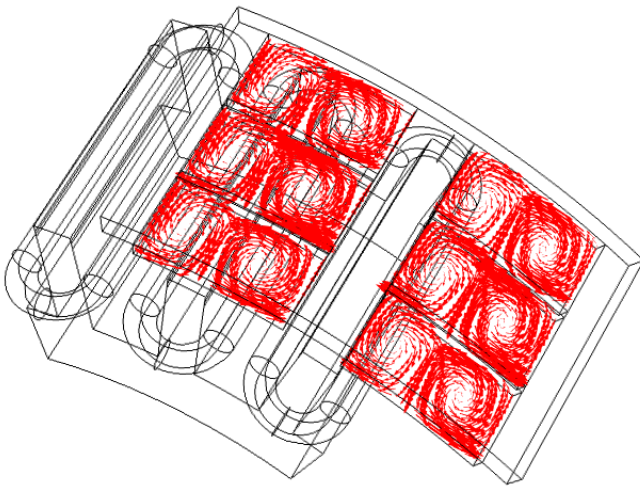
- Embedded software and hardware to control electric machines and power converters for wind application:





# FEM Advanced Computation

- Electromagnetic, thermal, mechanical computation using finite element method (FEM).
- Quick check performance of devices such generator, motor, transformer , tower using FEM.



# GETEC's Projects: Transformer Station

- Typical projects of transformer in cooperation with ABB Hanoi, Visco, Velosi:
  - BHP Billiton Iron Ore project, Australia. ABB transformer: 10/13 MVA, 66/6.6 kV.
  - Argyle Diamonds Underground project, Australia. ABB power transformers: 132/22/11 kV, 20/27 MVA.
  - Mine&Port Development Joint Venture project, Australia. ABB transformers: 16/20MVA 132/33/11 kV.
  - Manufacture, FAT of 30 transformers at ABB Hanoi, Vietnam. Oil filter plant-Dung Quat project, Vietnam.

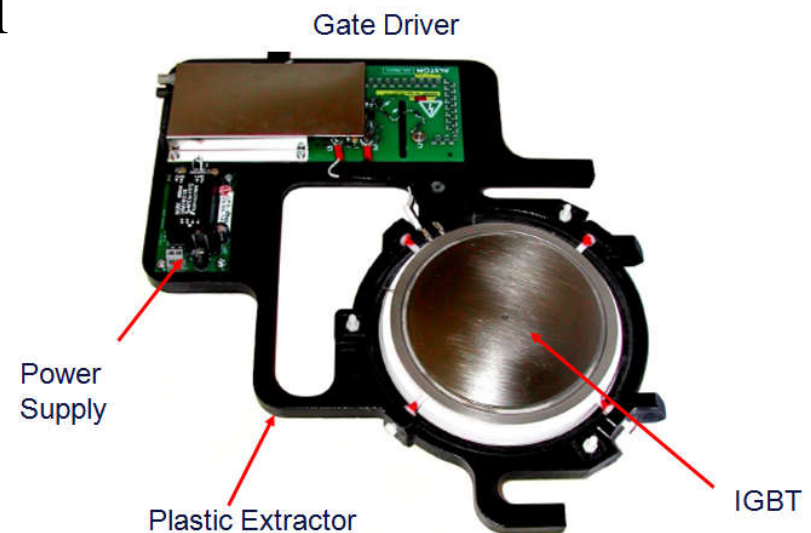


All rights reserved  
by GETEC



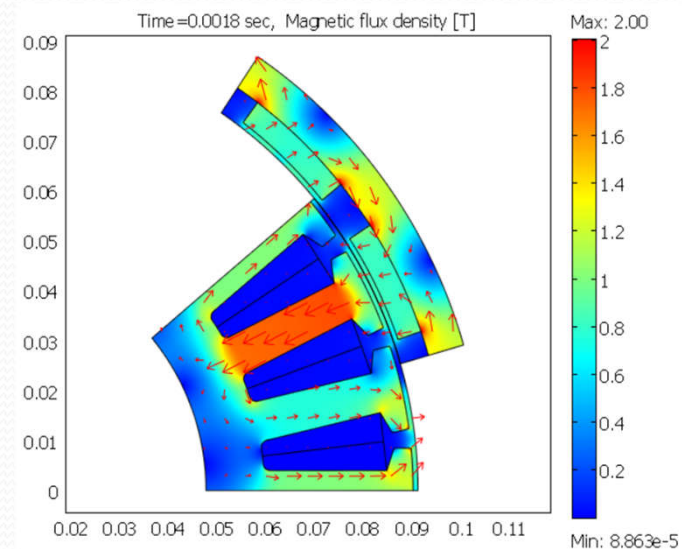
# GETEC's Projects: Converter and Control

- Typical projects of power electronics converter and control system:
  - Design of power electronics converter for education and training.
  - Design of supervisory and control system for CNC winding machine using PSoC microcontroller.



# GETEC's Projects: Electric machines

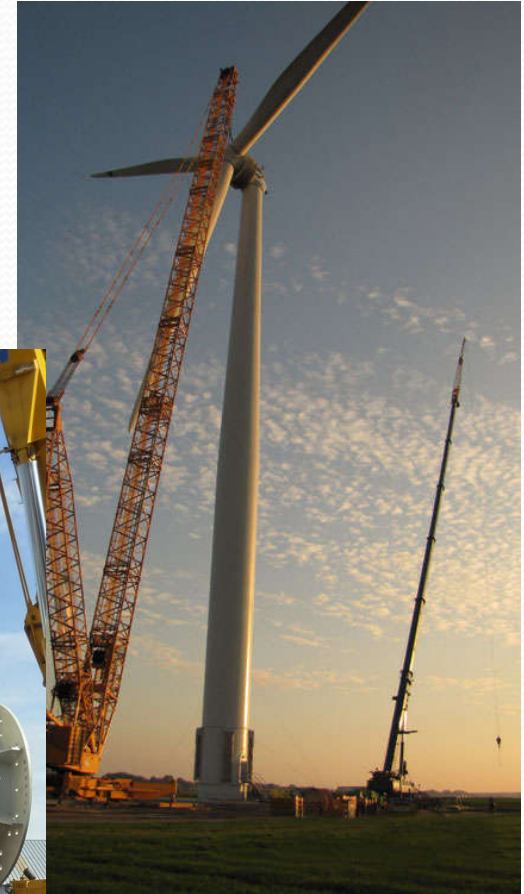
- ‘Gerator Box’ project in cooperation with MasterVolt, Netherlands:
  - Design and manufacture of high performace generator
  - Power electronics converters.





# GETEC's Projects: MW Gen for wind turbines

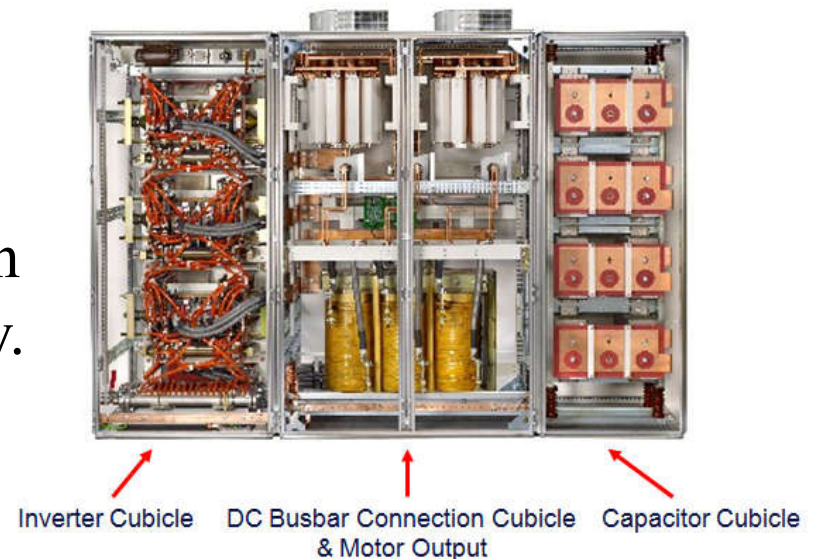
- Project on modular design of 5 MW generator for wind turbine, in cooperation with Darwind, Netherlands.
- Project on transformer station, filter, switchgear, grid connection and cable of wind turbine, in cooperation with Darwind, Netherlands.
- Project on design of multiphase MW generator with concentrated windings for wind application, in cooperation with SETEC wind power, Germany.





# GETEC's Projects: control and embedded software for wind turbine

- Project on design of pitch drive for wind application, in cooperation with SETEC wind power, Germany.
- Project on wind turbine control, in cooperation with SETEC wind power, Germany.
- Project on speed sensorless control for power electronic converter and MW direct-drive generator system for wind application, in cooperation with SETEC wind power, Germany.
- Some research projects on offshore wind turbine foundation and mechanical structure, Iceland.





# GETEC's Partners

- GETEC in cooperation with XEMC-Dawind, ABB, Velosi, Technip, SETEC, EWT, Mastervolt, etc.

**XEMC DARWIND**

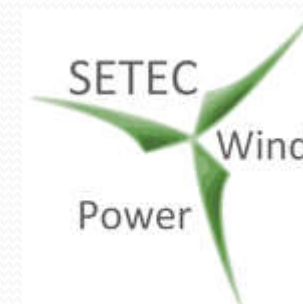
**ABB**

 **MASTERVOLT**  
THE POWER TO BE INDEPENDENT

 **EWT**

 **XEMC**

 **OWELD** OXYHYDROGEN  
Gas Generators

 **SETEC**  
Wind  
Power