

WORKSHOP 3 ON TECHNOLOGY

Local Workshop Results

Huelva, 28th October 2010

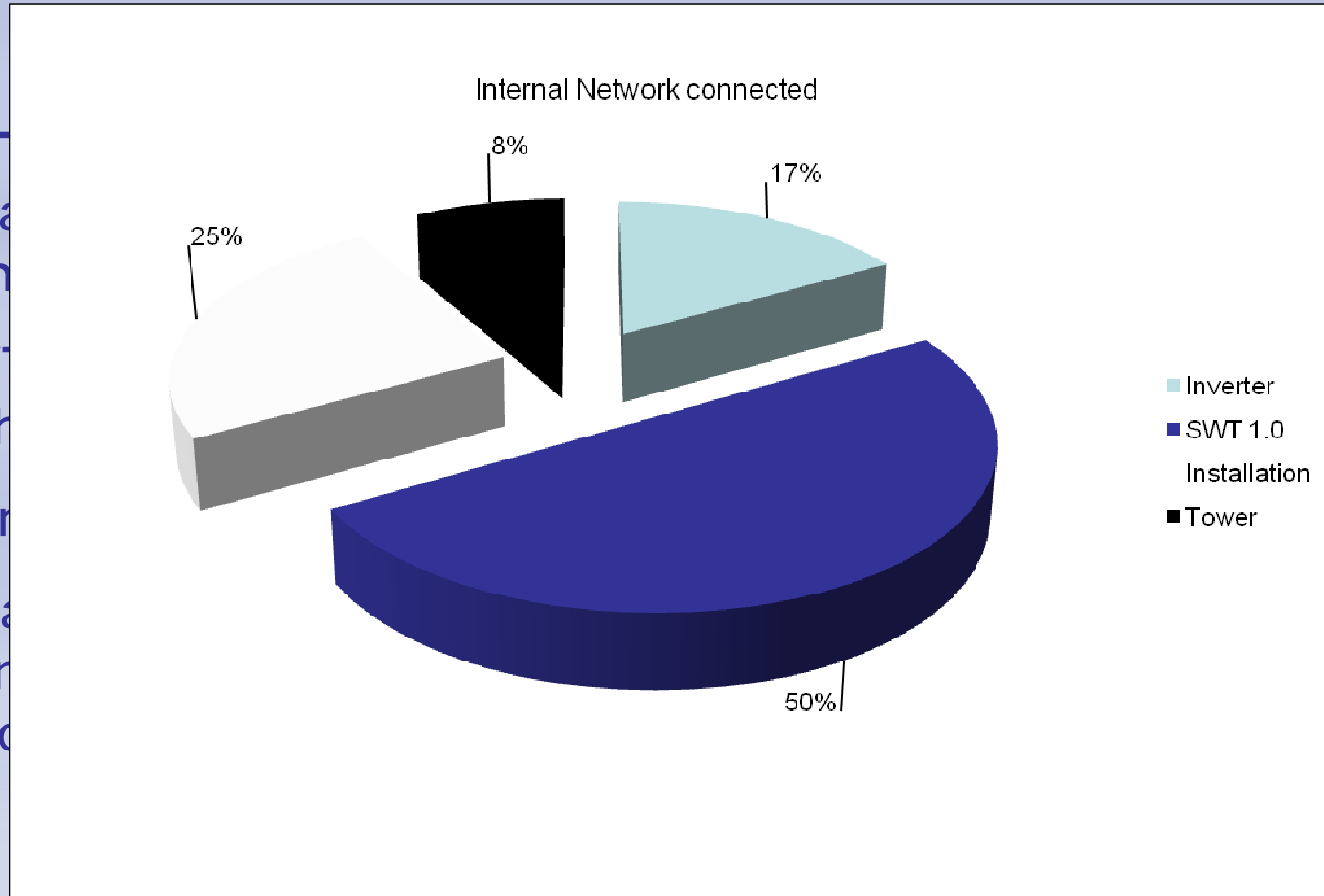


WORKSHOP AGENDA

1. Linking with other projects. RURAL RES.RETALER.
2. The small wind technology. Advantages and disadvantages of different technologies.
3. Applications and costs. Environmental aspects (noise).
4. Integration of small wind in the urban environment. Urban wind maps.
5. Certification of small wind components. Quality label.Costs. The installation's performance Guarantee.
6. Installers Accreditation.
7. New developments and technological trends & innovations
8. Question time.

The small wind technology. Advantages and disadvantages of different technologies.Costs

- VAWT advantages
advantage
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- HAWT
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- Import
- SWT
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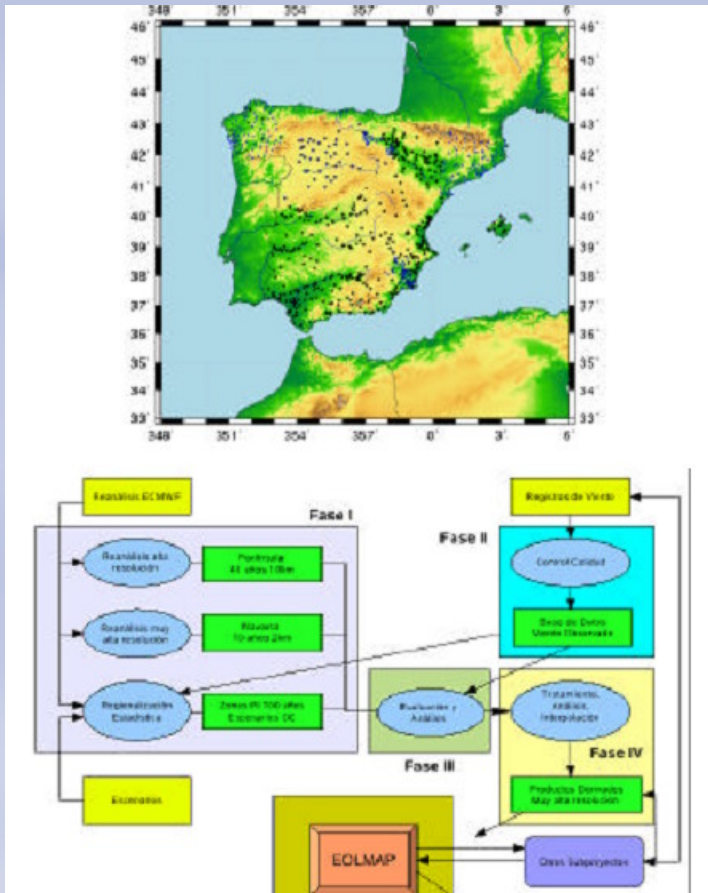
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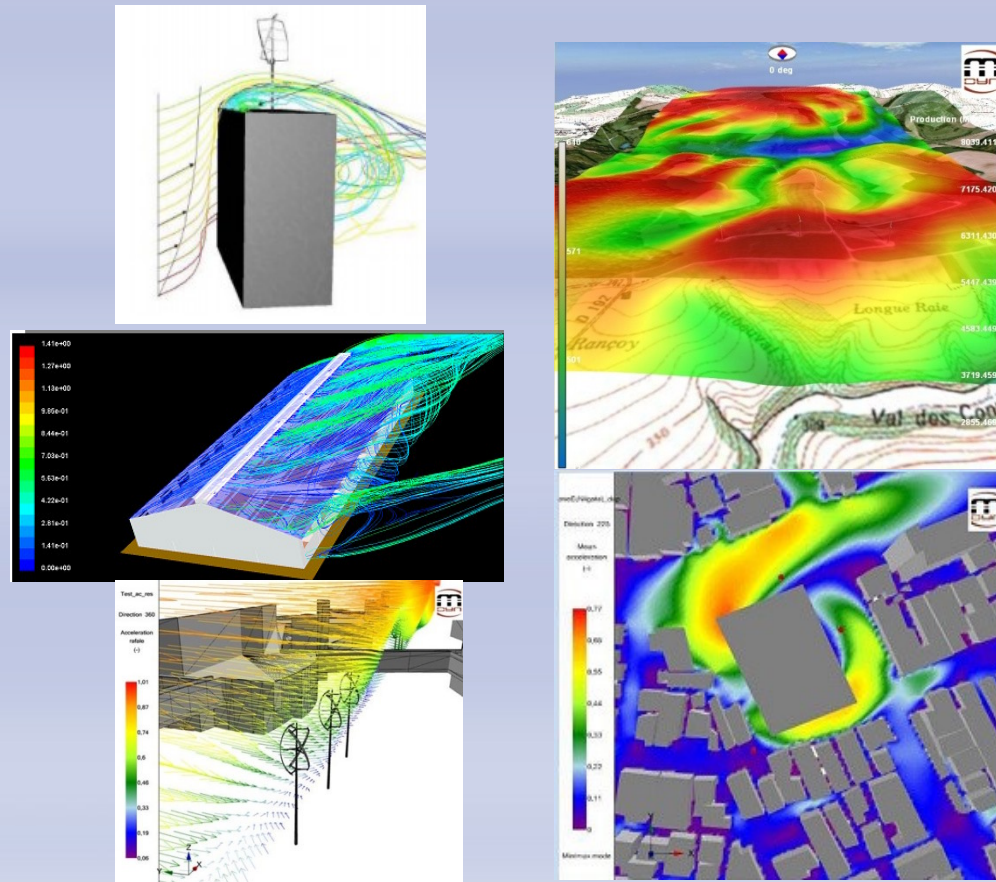
breezes
ed and

Integration of small wind in the urban environment.

Urban wind maps



Spanish Small wind map



UrbaWind & Meteodyn WT CFD Models

http://www.agenciaandaluzadelaenergia.es/MapaEolico/index.jsp
DAEMON

Comenzar a usar Firef...
Últimas noticias

ndaluz de la Energía

Agencia Andaluza de la Energía
CONSEJERÍA DE INNOVACIÓN, CIENCIA Y EMPRESA

DATOS E INFORME DE UNA LOCALIZACIÓN GEOGRÁFICA

Para seleccionar los datos geográficos se puede realizar por Municipio, coordenadas UTM (Europa 1950), Longitud y Latitud o sobre el mapa.

Selección de zonas

Provincia:

Término:

Selección de coordenadas

UTM X:

UTM Y:

Latitud:

Longitud:

Selección de parámetros

Año:

Altura:

Mapa | Satélite | Híbrido

POWERED BY Google | 10 mi | 20 km | Datos de mapa ©2010 Tele Atlas - [Términos de uso](#)

Punto seleccionado

Zona:

Municipio:

Provincia:

Punto medido

Utmx cerca:

Utmx cerca:

Distancia: m



Datos básicos

Velocidad Media: m/s

Dirección:

Energía: W/m²

Visualizar Informe:



Lunes, 25 de Octubre de 2010 LA ASOCIACIÓN OBSERVATORIO EÓLICO EVE

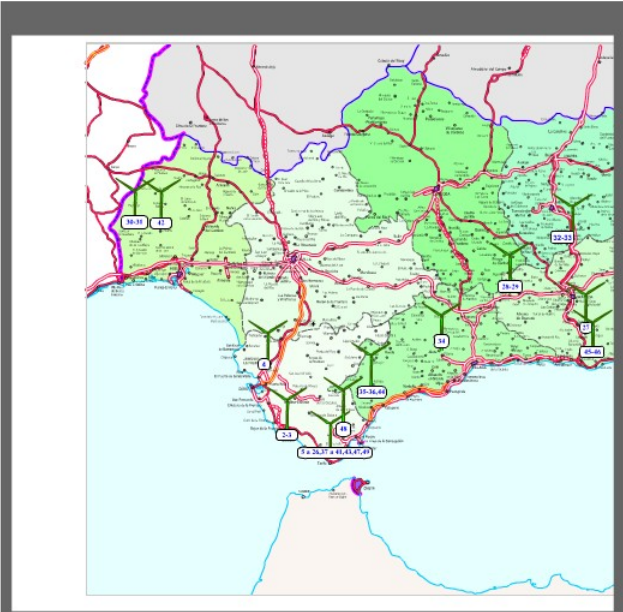
Andalucía 2.840,07 MW [A 01/01/2010]
14,8% de la potencia instalada en España

Area asociados

Usuario
Contraseña

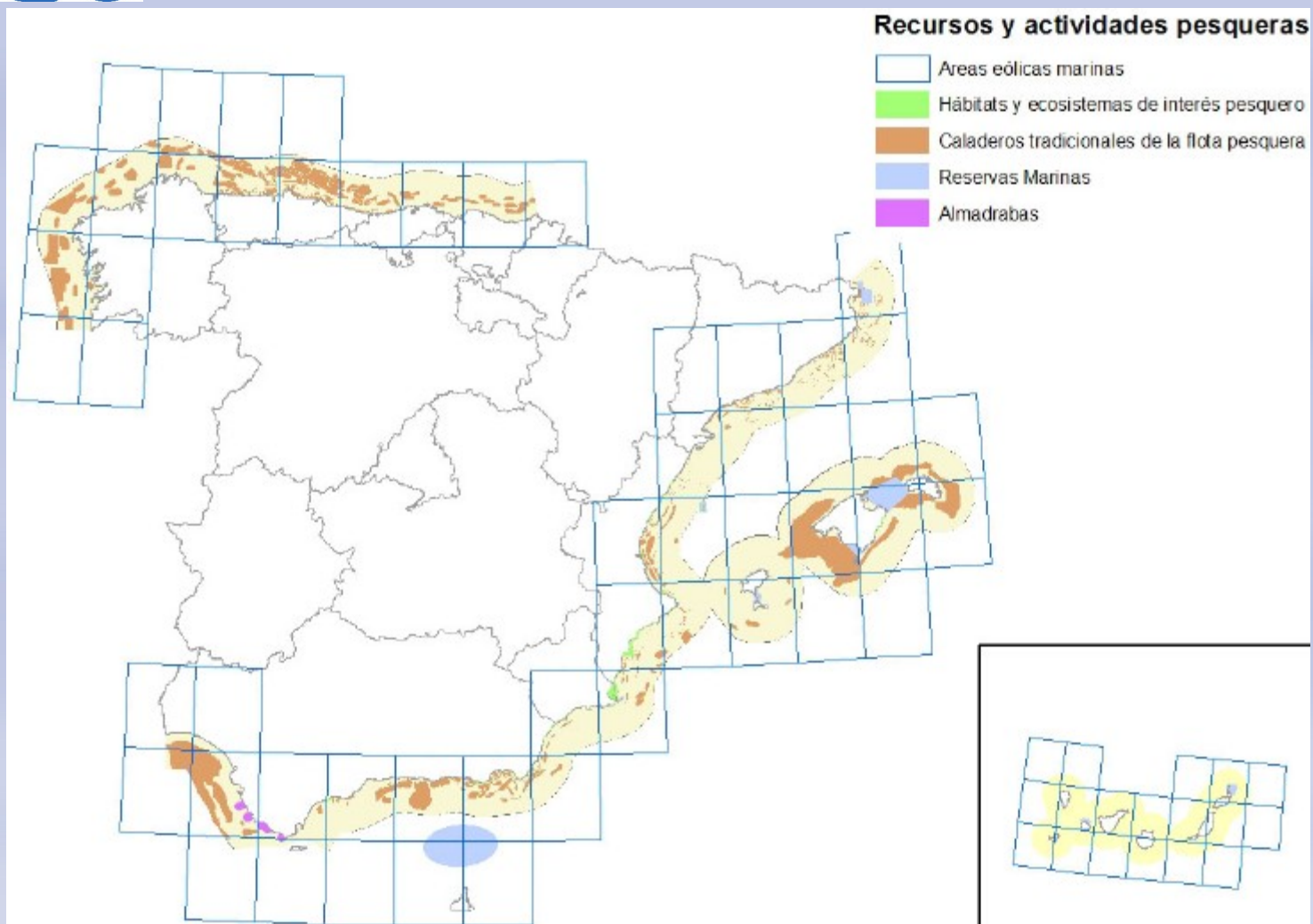
OBSERVATORIO EÓLICO

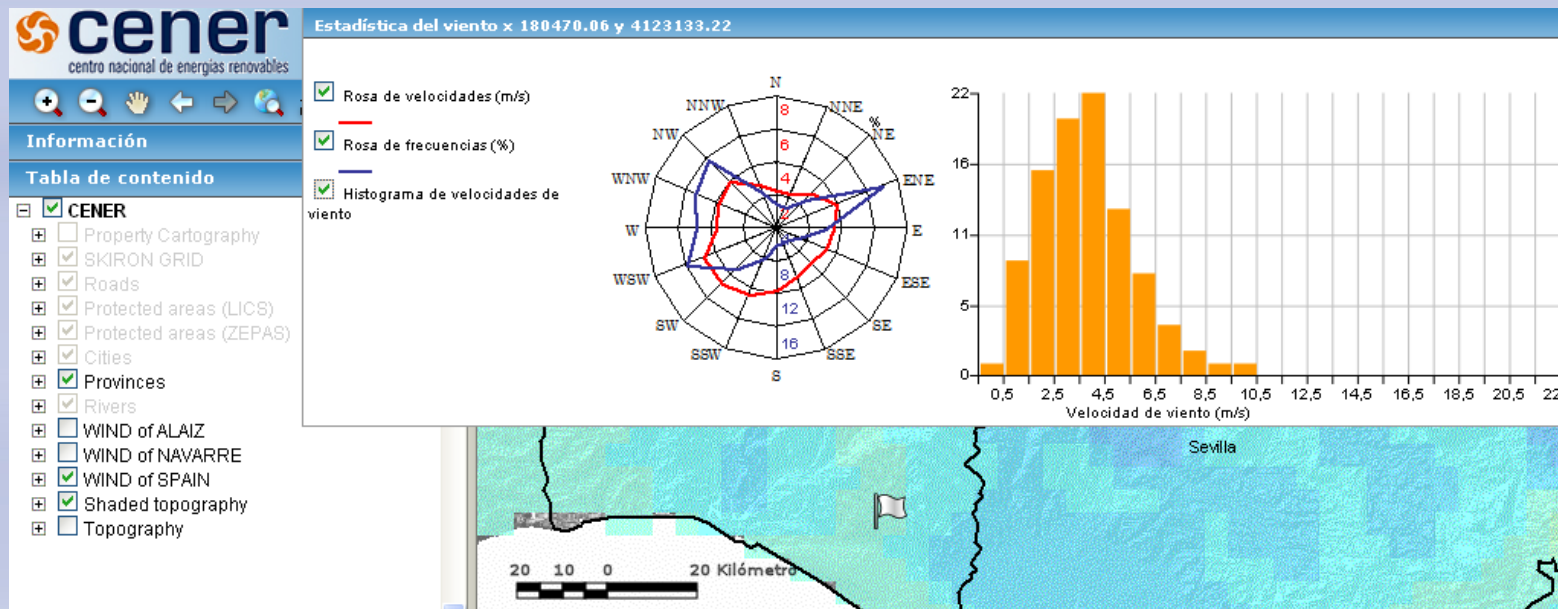
- Mapa eólico
- Datos básicos
- Potencia instalada
- Generación eólica
- La eólica en el mundo
- Predicción y seguimiento
- Marco normativo
- Empleos verdes



MAPA AEE MAPA REE 100% vista

ZOOM 100%





Estación Seleccionada: -

Selección por Lista

Provincias con alguna Estación en su Territorio:

Estaciones en la Provincia Seleccionada:

Tipo de Consulta y Periodo de la misma

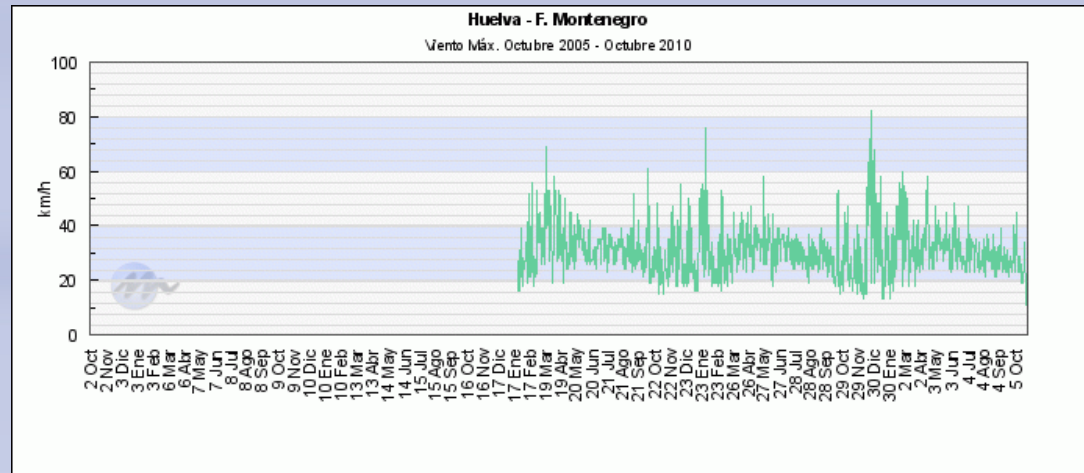
Tipo de Datos a Consultar: Diarios Semanales Mensuales

Fecha Inicial Consulta (incluida):
Con Datos desde el 21/12/1999 hasta el 26/10/2010

Fecha Final Consulta (incluida):

Agroclimatic stations.
Ministry of Rural and Marine Environment

METEOCLIMATIC



Meteoclimatic is a large network of amateur weather stations (~ 1000) in real time and an important meteorological resource directory.

Scope: Spain, Portugal, Canary and Balears Islands, southern France and north Africa near the Strait of Gibraltar.

Certification of small wind components. Quality label.Costs

- Certification process is prohibitive for small manufacturers to amortize the cost.
- In the revised standard underway are contemplated
- CIEMAT is working on British standard.

Objectives :
 Designing a quality label focused on the users so Meeting certain standard trial tests.

INDEPENDENTLY TESTED WIND TURBINE	
Manufacturer Model	<Manufa> <Model>
Least Noise	
A	
B	
C	
D	
E	
F	
Most Noise	G
Energy Production (kWh/yr) at 5 m/s average wind speed	325
<small>Actual Production will depend on how the turbine is controlled and where it is located.</small>	
Duration tested at wind speed (m/s average)	5
<small>Wind speeds apply to hub height.</small>	
<small>Further information is available in product brochures and test reports, see <labeling website></small>	
<small>Responsible for independent tests: <independent body></small>	

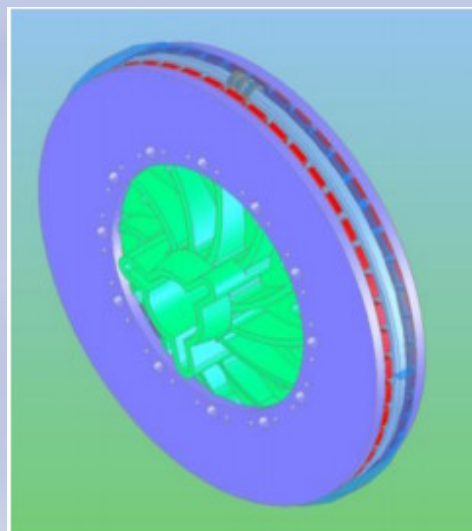
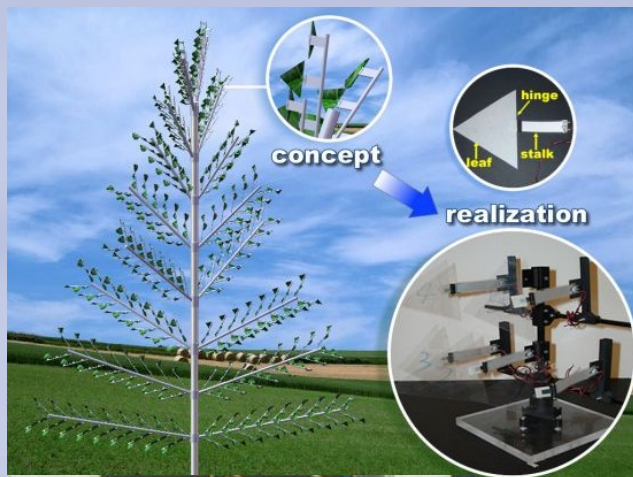
00.000-250.000, is 10,000 SWT / year) to

), which is currently

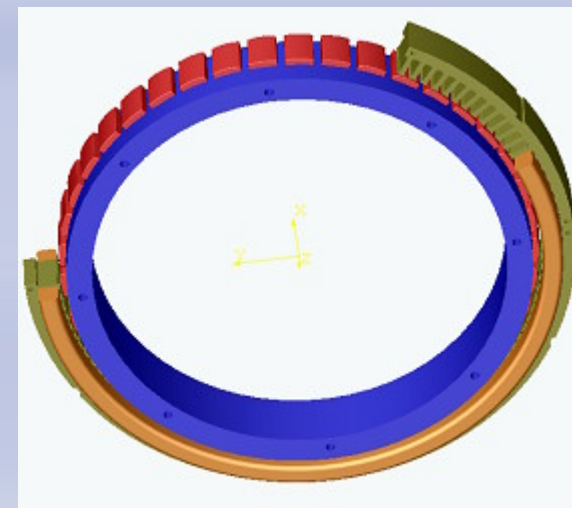
ard, based on the

throughout the world compare and verifie . (, ...) and duration

New developments , technological trends & innovations



Axial flow without slots GIP



Conventional GIP

THANKS FOR YOUR ATTENTION!

