



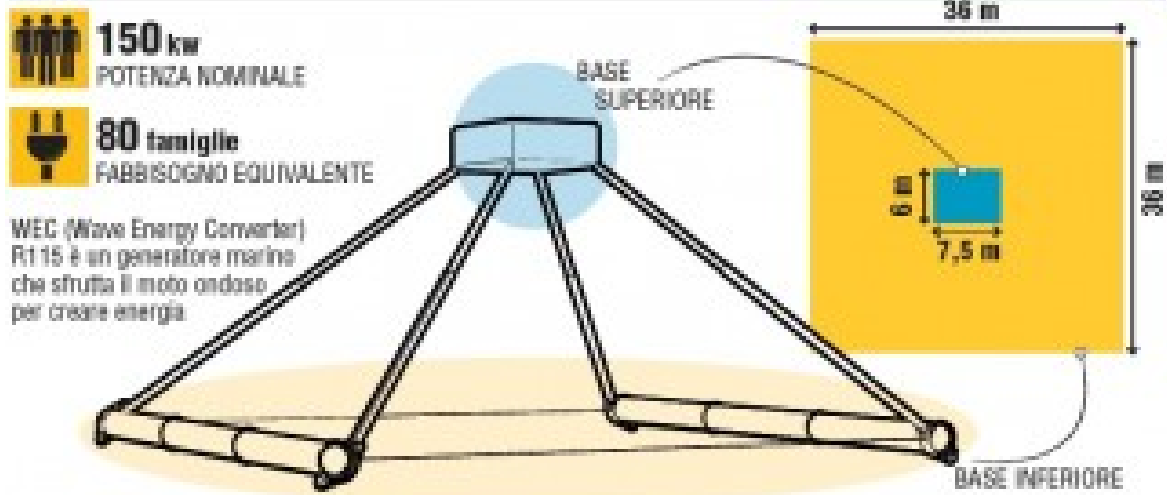
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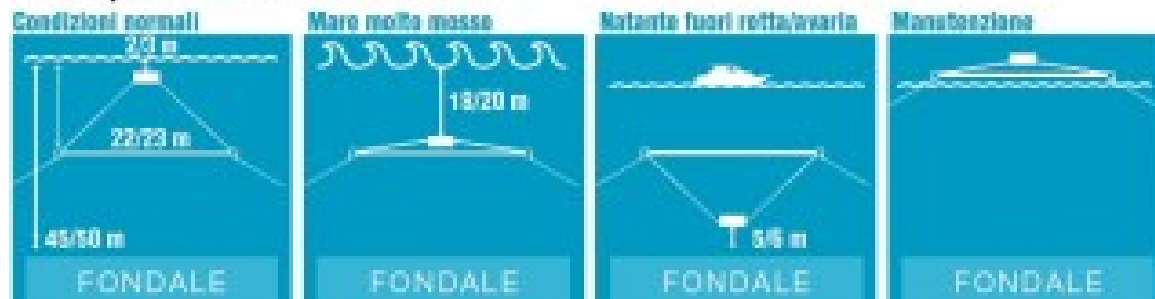
ENEL GREEN POWER'S WAVE ENERGY CONVERTER DEVELOPED BY 40SOUTH ENERGY: SECOND TEST PHASE UNDER WAY

- *Initial testing phase for the R115 wave energy converter (nominal capacity of 150 kW) at Punta Righini in Tuscany successfully completed*
- *The two companies are broadening their technological partnership to increase the number and capacity of the converters to be installed in the Mediterranean and in the oceans*

Rome-Livorno, January 31st, 2014 – The second phase of testing of Enel Green Power (EGP)'s R115 marine wave energy converter developed by 40South Energy, with a nominal capacity of 150 kW, has now been kick-started.



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Bloomberg News

DCNS and Enel Green Building Marine Power Research Hub in Chile

By Louise Downing | October 30, 2014



DCNS SA, a French engineering company, and Enel Green Power SpA have been chosen by the Chilean government to build a marine energy research hub in the country.

The eight year project is expected to cost about 20 million pounds (\$32 million) with the government's economic development arm investing 65 percent of the total, EGP and DCNS said in an e-mailed statement. The center will research the marine

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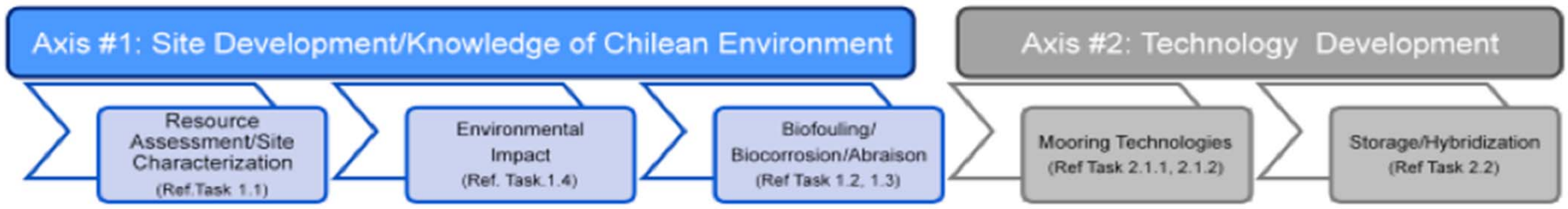
- A project to create an ICE Chile in Marine Energy has been submitted to CORFO by DCNS together with Partners,
- DCNS and ENEL Green Power Chile have already incorporated a company in Chile “ENERGIA MARINA SpA” to operate the ICE CHILE (April 22nd, 2014)
- “Marine Energy Research & Innovation Center” hereafter called MERIC is composed by:
 - ICE Chile
 - DCNS (ICE)
 - 5 Chilean Implementation Partners: **EGP Chile, PUC, UAC, FCh, Inria Chile**
 - 1 Chilean Associate: **Chilectra**
 - Support coming from more than **25 entities** Universities/Government Institutions/Research Centers from **Australia** (e.g., Carnegie), **Chile** (e.g., Gobierno Regional de Los Lagos, Pontificia Universidad Católica de Valparaíso), **Finland** (e.g., AW-Energy), **France** (e.g., IFREMER), **Italy** (e.g., Politecnico di Torino), **Monaco** (e.g., Foundation Prince Albert II), **U.K.** (e.g., Carbon Trust), **U.S.A.** (e.g., University of Washington)



A CUTTING-EDGE VALIDATION TEST BENCH

MERIC R&D

- **First-of-its-kind worldwide** Validation Test Bench unit (*wave energy converter unit, cables, land station*), merging the theoretical findings of scientific models with the ability to test these theories in real environments adapting findings to real-world sea conditions off the coast of Chile for both R&D Axes
- Validation Test Bench is **an innovative and cost effective solution to enhance and speed up MERIC R&D program**



Installation of Validation Test Bench (VTB)

- | | | | | |
|---|---|--|---|---|
| <ul style="list-style-type: none"> • Instrumentation systems/buoy. • Measurement of real world data. • Benchmark, enhance resource modeling. • Couple resource model with power generation forecasts. | <ul style="list-style-type: none"> • Instrumentation system for remote monitoring. • Direct measurement and monitoring of marine ecosystem and animal interaction w/VTB. • ID of improvement strategies. | <ul style="list-style-type: none"> • Instrumentation for testing, ROV survey. • Monitor/validate biofouling /biocorrosion hypotheses. • Assessment of biofouling/corrosion/abraision factors. • ID of improvement strategies | <ul style="list-style-type: none"> • Installation of meteocean, structural monitoring sensors. • Acquire and analyze data. • ID of improvement strategies. | <ul style="list-style-type: none"> • Develop model to size storage solutions for MRE. • Evaluate hybridization with other renewable sources, understanding market/grid needs. |
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