



*New Generation, Natural Gas,*



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## **NG<sup>2</sup> UNVEILS AT POSIDONIA « PLUG » THE WORLD'S FIRST SOLUTION TO PROVIDE A SAFE, MULTI MEGAWATT, HIGH VOLTAGE SHORE POWER CONNECTION...**

### **...WITHIN A MINUTE!!!**

New Generation Natural Gas (NG<sup>2</sup>), a startup company proposing innovative solutions to improve the shipping industry economical and environmental performance is presenting at Posidonia its PLUG ( acronym "for Power Generation during Loading & Unloading") shore power technology.

Based on a unique concept of self mating /de mating connector, PLUG makes shore power connection a press button operations, bringing superior advantages in terms of:

- speed of operation (and hence reduction of on board generator sets use...),
- safety : no direct handling of high voltage connector and cables,
- compactness (no impact on ship side payload volume, negligible quayside footprint),
- Capital and Operational expenses: simplified installation, no manpower required...
- Versatility : a single PLUG Unit can provide up to 11 000 Volts / 700 Amps power exchange capability
- Standardization : PLUG is compliant with IEC High Voltage Shore Power requirements

First unit is presently being manufactured to qualify PLUG with regard to IEC standards shore power and major classification societies requirements.

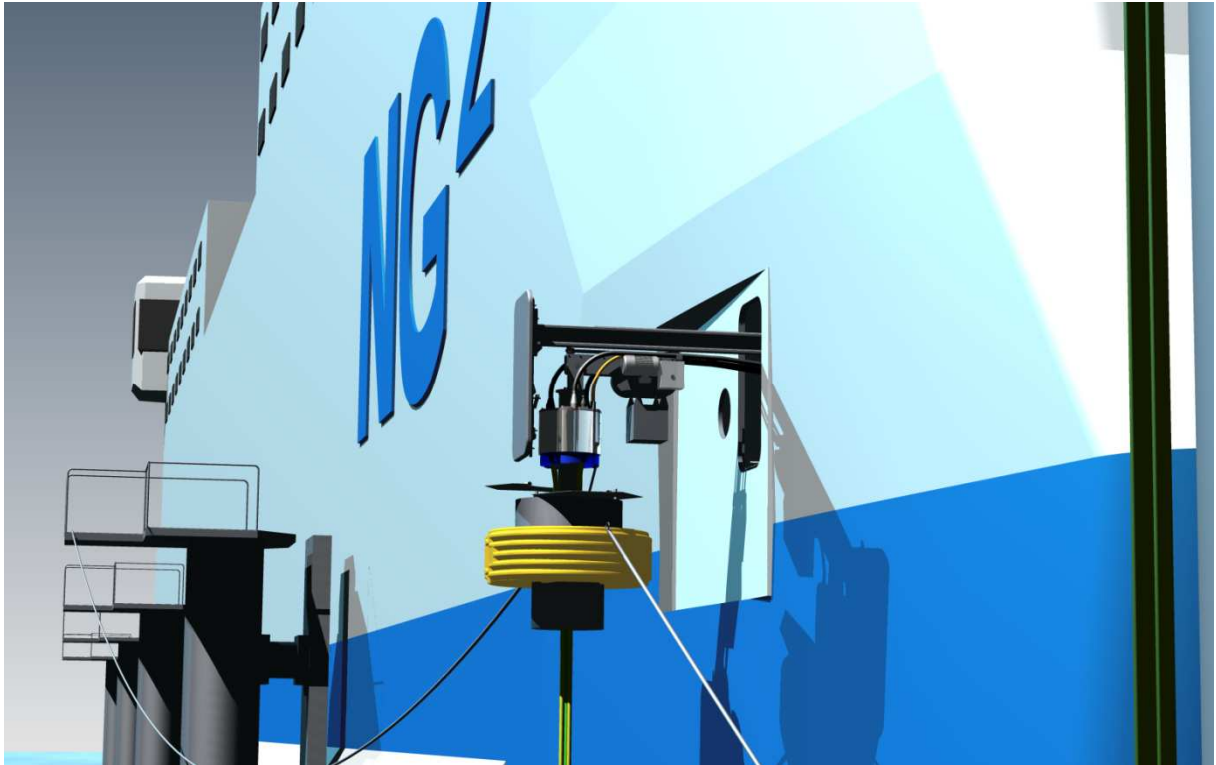
PLUG Installation studies have been performed for the following requirements:

- 2 MVA / 6.6 kV for Mediterranean and Channel ferries
- 6 -8 MVA / 6.6 kV for Container carriers, tankers...
- 16 MVA / 11 kV For Florida mega cruise ships...
- 10 MVA / 11 kV for cruise ships
- 2 MVA /3.3 kV for pusher barge RO RO...
- Floating connector version for vessels at mooring...

Compared to state of the art solutions based on manual connectors, PLUG game changing solution offers, typically:

- No impact on payload volume
- 20 % more time connected to the shore power infrastructure
- 100 times less manpower
- 100 times less risks
- 50 times less maintenance
- 3 to 4 times less capital and operational expenses
- 4 to 10 times less on board volume

**ALL THESE FEATURES ARE EXPECTED TO MAKE SHORE POWER NOT ONLY AN ENVIRONMENTALLY FRIENDLY SOLUTION,  
BUT, AS WELL, A PROFITABLE ONE!**



Booth 265 French Pavillon  
Contact : Damien Féger , 33 6 47 88 11 93 [Damien@ng-two.com](mailto:Damien@ng-two.com)

[WWW.Newgeneration-naturalgas.com](http://WWW.Newgeneration-naturalgas.com)