



CIMAC

INTERNATIONAL COUNCIL
ON COMBUSTION ENGINES

JUNE 3, 2014 | COLOGNE, GERMANY



INVITATION

CIMAC Circle 2014 at POWER-GEN Europe

Powering the grid 24/7:
Transitioning energy supply with reciprocating engines

In cooperation with:



POWER-GEN
EUROPE



Dear friend of CIMAC,
on behalf of CIMAC we cordially invite you to the annual Cimac Circle

CIMAC Circle at POWER GEN Europe

Powering the grid 24/7: Transitioning energy supply
with reciprocating engines

Tuesday, June 3, 2014

11:00 h – 12:30 h

Koelnmesse, Congress Centre Nord, 2nd floor, Room: Rheinsaal 2

The power sector is undergoing fundamental changes as a result of the large-scale introduction of renewable electricity sources. The traditional steady base load for power plants is disappearing because of the intermittency of the output of wind turbines and solar panels. As a consequence, power plants have to experience frequent starts and stops and provide fast ramping up and down of their output. The amount of time that the output of the renewable sources will exceed electricity demand will steadily increase. Yet, full back-up power is needed since there will be times without any wind and sunshine. Generators driven by reciprocating engines appear to offer the newly required flexibility at minimum costs. Drastic improvements in engine performance during the last decade have made the technology very competitive. Engine-driven cogeneration units producing electricity and heat can also play a crucial role in integrating heat and electricity demand. Such an integration is essential for reducing fuel use and decreasing emissions.

During this special CIMAC circle in connection with PowerGen Europe, experts from leading manufacturers will address various essential aspects of engine-driven generation. The subjects covered are:

- Flexibility of engine-driven power plants;
- Natural gas as the preferred back-up fuel;
- Compliance with emerging emission legislation;
- Compliance with new grid connection rules;
- Engine performance optimisation with advanced turbocharging.

Each of the five presentations will be concluded with a question and answer session, thus allowing direct communication with the speakers. Attending this CIMAC circle is highly recommended for power plant specialists, consultants, professors, students and policy makers.

Dr.-Ing. Christoph Teetz
President of CIMAC

Panel

Jacob Klimstra

Netherlands (chair)

Ulf Åstrand

Wärtsilä Corporation, Finland

Wilhelm Müller

Caterpillar Energy Solutions GmbH, Germany

Christian Poensgen

MAN Diesel & Turbo SE, Germany

Christoph Rofka

ABB Turbo Systems Ltd., Switzerland

Jürgen Winterholler

MTU Onsite Energy, Germany

Registration

You need at least the visitors registration to get access to the congress venue. For Registration please visit the POWER-GEN website: **powergeneurope.com**

Please note that participation in the CIMAC Circle is limited to 150 people.

CIMAC Central Secretariat

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Location

Koelnmesse
Messeplatz 1
50679 Köln
Deutschland

www.koelnmesse.de

Zugang

- Congress Centre Nord
2nd floor, Rheinsaal 2
- Halle 6
- Halle 7

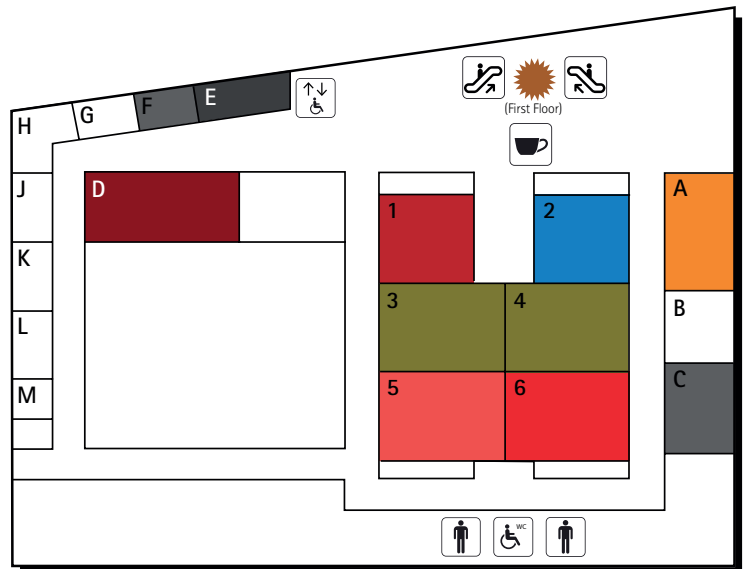
Die POWER-GEN Europe und die Renewable Energy World Europe finden in den Hallen 6 und 7 der Koelnmesse in Köln statt. Die Koelnmesse liegt am Rhein direkt gegenüber von Dom, Altstadt und Hauptbahnhof. Der Zugang zur Ausstellung und Konferenz erfolgt über den Eingang Nord.



SECOND FLOOR

CONFERENCE TRACKS

- D** POWER-GEN Europe Track 6
- 1** POWER-GEN Europe Track 5
- 2** Renewable Energy World Europe Track: Renewable Energy Technology & CIMAC Circle
- 3** POWER-GEN Europe & Renewable Energy World Europe Track 1
- 4** POWER-GEN Europe & Renewable Energy World Europe Track: Solutions for Integration
- 5** POWER-GEN Europe Track 2
- 6** POWER-GEN Europe Track 4



BRIEFING AREAS

- A** Renewable Energy World Europe Speaker Briefing Area
- E** POWER-GEN Europe & Renewable Energy World Europe Slide Centre (access for speakers only)
- F** Conference Managers Office

PLACES TO VISIT

- C** Press office - Admission is restricted to accredited journalists only.
- D** Delegate Coffee Breaks

Congress Centrum Nord (CC Nord): Rheinsaal