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October Workshop

1-2 October 2019
Florence, Italy

**BAKER
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THE ROLE OF GAS TURBINES IN A CARBON-NEUTRAL SOCIETY

10th International Gas Turbine Conference

14-15 October 2020
Le Plaza Hotel in Brussels, Belgium



IGTC
International
Gas Turbine Conference



5 keynote sessions
6 technical sessions: 30 technical papers to be presented

Deadline for submission of abstracts: **4 December 2019**



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IGTC-20 Call for Papers: deadline **4 December 2019**

Decarbonisation and emissions reduction

- Power-to-X-to-power technologies
- Retrofit and newly built H₂ power plants
- Integration of GT hybrid solutions
- GT advanced cycles (wet cycles, sCO₂, exhaust gas recirculation, hybrid cycles, integration of storage solutions, heat pumps etc.)
- Environmental life cycle assessment
- Emission reduction on existing gas turbines
- Decentralisation and distributed generation
- Carbon capture and storage
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Flexibility

- Extended fuel spectrum (hydrogen, biomass, ammonia, LNG/LPG...)
- Operational GT flexibility
- Maintenance flexibility
- Emission at flexible load and cycling
- Efficiency at partial and minimum load conditions
- Reliability (material and life impact)
- Plant and system flexibility
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Digitalisation

- Condition monitoring and lifing
- Digital engine modelling, digital twins
- Plant and system integration
- Integration in virtual power plant
- Data management, architecture & security
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Asset optimisation through life cost

- Overall system efficiency
- Condition-based maintenance
- Extension of service intervals and total engine life
- Component lifing
- Predictive maintenance
- Sensors & Instrumentation
- New component developments
- Additive manufacturing and repair
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Economic, policy, market

- Economic impact on technical solutions in line with the market conditions and policy framework
- System analysis
- Emissions legislation
- Regulatory framework
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IGTC-20 Call for Papers

More information on our website:

<https://etn.global/events/igtc-20/>