



ETN'S 16TH ANNUAL GENERAL MEETING & WORKSHOP

DRAFT AGENDA

18-19 March 2020

Shell Technology Centre Amsterdam
Grasweg 31, Amsterdam, Netherlands

WEDNESDAY 18 MARCH 2020 - Annual General Meeting

Morning	ETN Board and Project Board meetings
11:00 – 13:00	Registration at Shell Technology Centre Amsterdam
12:00 – 13:00	Welcome lunch
13:00 – 15:00	<p>Opening and President's speech, Bernard Quoix, ETN President/TOTAL</p> <p>Approval of the previous AGM minutes</p> <p>Annual report of the activities and achievements, Christer Björkqvist, Managing Director, ETN</p> <ul style="list-style-type: none">• Energy & climate policy and market trends• ETN Working Groups, projects and activities• Upcoming meetings and events <p>Strategy and way forward, ETN Board</p> <p>Financial report, Andy Williams, ETN Treasurer/Chromalloy</p> <p>Adoption of accounts</p> <p>Discharge of ETN Board 2018-2020</p> <p>Voting session: ETN Board election 2020-2022</p>
15:00 – 15:40	Coffee break
15:40 – 17:40	<p>Research and innovation challenges for gas turbines in a low-carbon world <i>Chaired by Peter Jansohn, Paul Scherrer Institute, Chairperson of ETN Project Board</i></p> <ul style="list-style-type: none">• European Research & Innovation Strategy – Horizon Europe Eric Lecomte, Policy Officer, Director General for Energy, European Commission• Carbon Removal and Return – Can it help? Laurent Mariac, CO₂ Capture Leader for Power Gen. and Cement, Research & Development, TOTAL• Shell Research & Innovation Programme for a low carbon society Wilfried Maas, Shell• Research & Innovation Programme from a Utility Perspective Tbc <p>Announcement and presentation of the newly elected Board</p> <p>AGM closing remarks, Christer Björkqvist, Managing Director, ETN</p>
17:40 – 18:00	Gathering of the newly elected Board
18:00	Networking drink
19:30	Dinner at restaurant BAUT (Sparndammerstraat 460, Amsterdam)

THURSDAY 19 MARCH 2020 - Workshop

	Topics for Technical Committee 1: Next generation power cycles <i>Chaired by Marco Ruggiero, External Funding & Technology Development, Baker Hughes</i>	Topics for Technical Committee 2: Gas turbines operational and fuel flexibility <i>Chaired by Peter Kutne, Head of Department Gas Turbine, DLR</i>	Topics for Technical Committee 3: Additive manufacturing and new materials <i>Chaired by John Oakey, Professor of Energy Technology, Cranfield University</i>	Topics for Technical Committee 4: Condition monitoring and asset management <i>Chaired by Chris Dagnall, General Manager, DNV-GL Energy</i>
8:30–10:30 Parallel TC sessions	ETN sCO₂ advisory committee <i>Marco Ruggiero, External Funding & Technology Development, Baker Hughes</i>	ETN Hydrogen Gas Turbines report <i>Peter Kutne, Head of Department Gas Turbine, DLR</i>	The use of composite material in gas turbines components <i>Daniel Mack, Team Leader “High-Temperature Protective Coatings”, Jülich Research Center</i>	Safety requirements for hydrogen gas turbines <i>Stefano Rossin, Chief Engineering Office Manager, Baker Hughes</i>
10:30–11:00 Coffee break	ETN sCO₂ deployment in the heavy industry study <i>Ambra Giovannelli, Professor thermodynamic and Fluidodynamic, University of Roma Tre</i>	Ammonia for gas turbines fuelling <i>Agustin Valera Medina, Associate professor, Cardiff University</i>	Perspective about the deployment and the implications potential of NEXTOWER materials for applications in high temperature CSP and CO₂ <i>Antonio Rinaldi, Giuseppe Barbieri, ENEA</i>	Oil requirements for the operation of gas turbines <i>Dave McCormack, Shell</i>
11:00–12:30 Parallel TC sessions	Thermal energy harvesting <i>Piero Colonna, Professor Propulsion and Power, Delft University of Technology</i>	First outcomes of H2020 PUMP HEAT Project: optimized solution for EU Combined Cycle flexibility <i>Stefano Barberis, Project Manager, RINA-C</i>	Perspective about the deployment and the implications potential of NEXTOWER materials for applications in high temperature CSP and CO₂ <i>Antonio Rinaldi, Giuseppe Barbieri, ENEA</i>	Requirements for the installation of electrolyser in gas turbines
12:30–13:30 Lunch break	Innovative MGTs for industrial applications <i>Tony Hynes, Commercial Director, Aurelia Turbines</i>	Roadmap to CO₂ free flexible power <i>Jeffrey Haspels, Project Manager, Vattenfall and Peter Stuttaford, CEO, Ansaldo Thomassen</i>	Additive Manufacturing <i>Jan de Roos, Shell</i>	ETN study on gas turbine component life assessment
13:30–15:00 Parallel TC sessions	MGTs for single households <i>Eleni Agelidou, Scientist, DLR</i>	ETN initiative for the EU Innovation Fund	Additive Manufacturing Research Roadmap for the energy sector <i>Ferenc Pankotai, Manager, Combustion Engineering and Additive Manufacturing, Solar Turbines</i>	
			ETN AM Equipment Benchmarking Initiative <i>Vladimir Navrotsky, Chief Technology Officer, Siemens</i>	
Plenary session				
15:00 – 16:00	Report from the TC Chairs on actions and closing remarks <i>Technical Committee Chairpersons</i>			

* TC: Technical Committee

Sponsor

Shell



Accommodation

[Room Mate Aitana](#)

IJDok 6, 1013 MM, Amsterdam, Netherlands

[NH Amsterdam Noord](#)

Distelkade 21, 1031 XP, Amsterdam, Netherlands

[Park Plaza Victoria Amsterdam](#)

Damrak 1-5, 1012 LG, Amsterdam, Netherlands

Venue

[Shell Technology Centre Amsterdam](#) (STCA)

Grasweg 31

1031 HW, Amsterdam, Netherlands

Dinner

Restaurant BAUT

Spaarndammerstraat 460, Amsterdam

Contact

Noora Kilpinen
+32 (0)2 646 15 77
nk@etn.global

Taxi numbers in Amsterdam

TCA: +31 (0)20 777 7777
Staxi: +31 (0)20 70 58 888
Taxistad: +31 (0)20 20 80 000

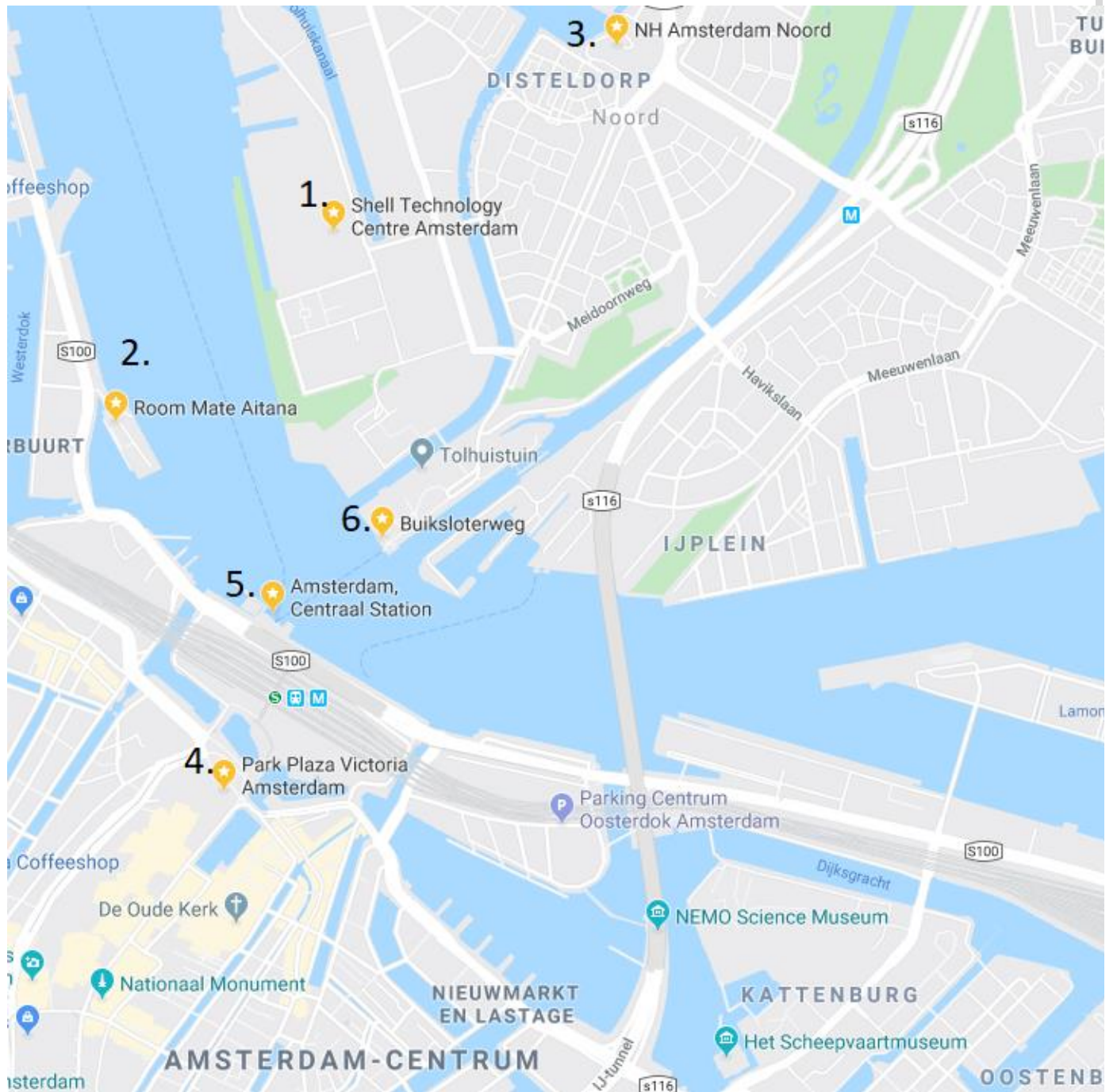
Directions

[Shell Technology Centre Amsterdam](#) is located on the north side of Amsterdam, and can be easily accessed by ferry from Amsterdam Centraal railway station (stop for international, regional and airport trains).

Room Mate Aitana and Park Plaza Victoria hotels are situated in close proximity to Amsterdam Centraal. NH Amsterdam Noord hotel is located on the north side of Amsterdam, close to Shell's facilities, and provides on-spot parking with a daily fee.

Please note that Shell Technology Centre cannot reserve parking for the AGM & Workshop attendees. We would advise to leave your car at your hotel.

Map



1. Shell Technology Centre Amsterdam – meeting venue
2. Room Mate Aitana hotel
3. NH Amsterdam Noord hotel
4. Park Plaza Victoria hotel
5. Amsterdam Centraal railway station and ferry terminal (ferry number 901)
6. Buiksloterweg ferry terminal (ferry number 901)

Ferry

Directions from Amsterdam Centraal railway station to Shell Technology Centre: take the ferry number 901 to Buiksloterweg (free of charge)

Directions from Shell Technology Centre to Amsterdam Centraal: walk to Buiksloterweg ferry terminal and take the ferry number 901 to Amsterdam Centraal (free of charge)