

Path to Saving Electricity and Carbon Emissions





Laurent Fourtune
Chief Operating Officer,
Eurotunel



Jose La Loggia
General Manager Commercial HVAC,
Trane Europe



Julien Soulet
Vice President and General Manager,
Honeywell Fluorine Products Europe,
Middle East and Africa

Agenda



10.30 – 11.25: Presentations 11.25 – 12.00: Q&A session

12.00 – 13.45: Individual interviews, refreshments 14.00 – 15.45: Eurotunnel Behind the Scenes Tour

16.00: Departures

Laurent Fourtune, Chief Operating Officer, Eurotunnel Eurotunnel's viewpoint

Jose La Loggia, General Manager Commercial HVAC Europe, Trane: Increasing energy and operational efficiency while reducing greenhouse gas emissions with Trane Series E CenTraVac

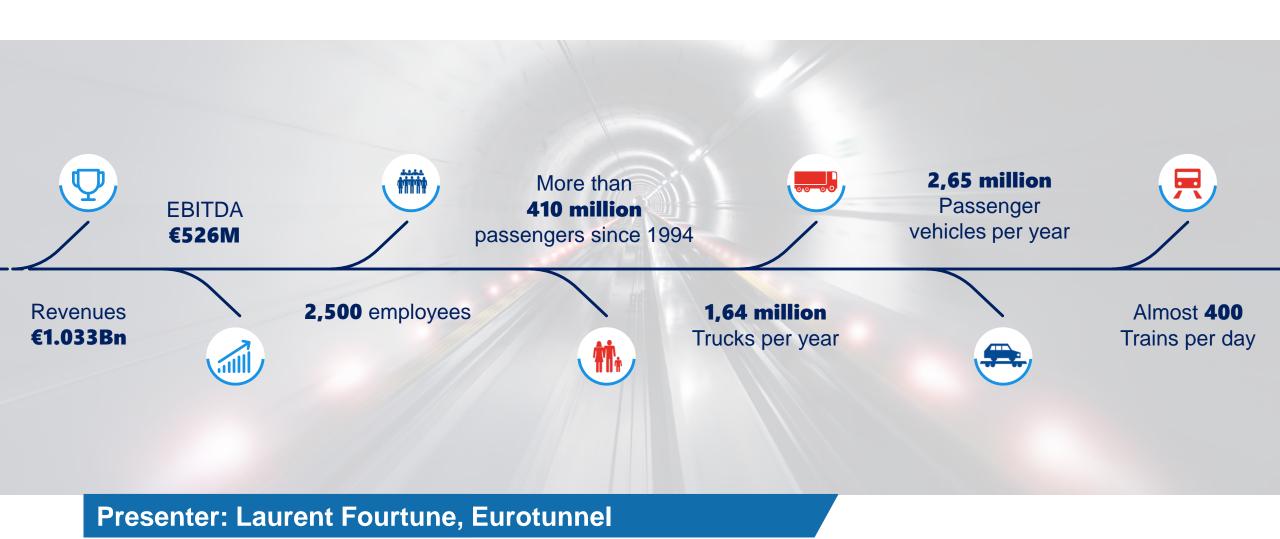
Julien Soulet, Vice President and General Manager, Honeywell Fluorine Products EMEA: Reducing carbon footprint without sacrificing performance: Honeywell Solstice® zd







Eurotunnel overview

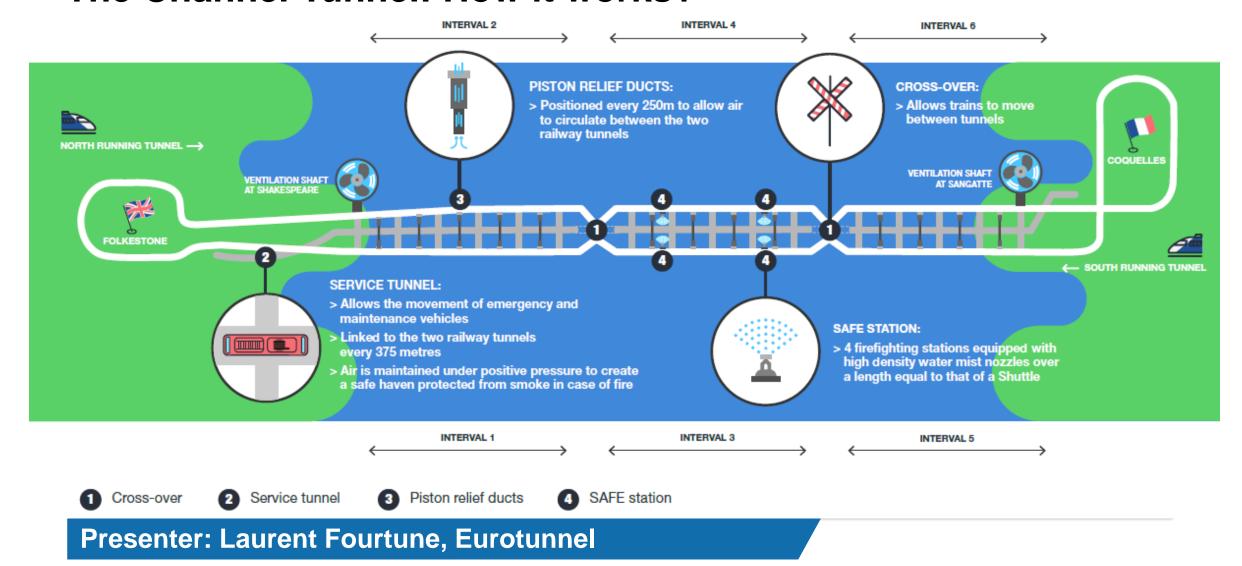








The Channel Tunnel: How it works?

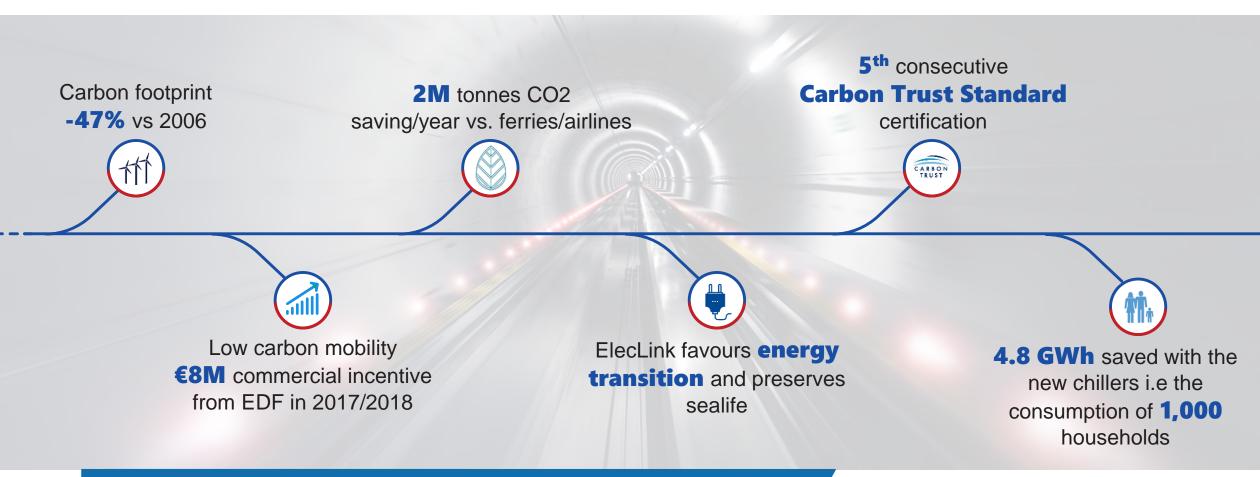








Eurotunnel: 30 years of Environmental Excellence



Presenter: Laurent Fourtune, Eurotunnel







Why a new Cooling system?









Ingersoll Rand: our company

A rich legacy serves as the foundation for the next 100 years.



- Founded when Simon Ingersoll patented the steam-powered rock drill in 1871.
- The Ingersoll-Rand Company was first incorporated on June 1, 1905.
- Acquired Trane (established 1885) in June 2008.



- Incorporated in **Swords**, Ireland.
- North American Headquarters and Corporate Center in Davidson, North Carolina.



A global company

- More than 44,000 employees globally.
- A total of 894 facilities around the world, including 53 manufacturing facilities worldwide.



Traded on NYSE

- Listed (NYSE: IR) since 1906.
- 16th oldest company and the 12th oldest continuously listed company on the NYSE.

Presenter: Jose La Loggia, Trane

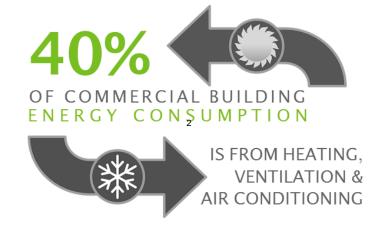






Buildings and Energy Use





POWER CONSUMPTION

forecasted to grow by 12.9%
by 2040







^{2.} EIA and based off of 2015 consumption

^{3.} http://instituteforenergyresearch.org/topics/policy/power-plant-closures/

Ingersoll Rand: our climate commitment

PRODUCTS



50%

Reduction in direct GHG potential of our products by 2020, and incorporating alternatives with lower-global warming potential across the company's product portfolio by 2030.

INNOVATION



\$500M

Investment in product-related research and development by 2020 to fund the long-term reduction of GHG emissions.

OPERATIONS



35%

Reduction in GHG footprint of our operations by 2020.

Our company is helping to solve some of the world's most pressing challenges – including the unsustainable demand for energy resources and impact on greenhouse gas emissions.

Progress on the Commitment



11M

The Commitment has supported the avoidance of approximately 11 million metric tons of CO₂e globally.



1,600,000

That is the equivalent of avoiding annual CO₂ emissions from energy used in more than 1,600,000 homes.



50M

By 2030, the company expects to reduce its carbon footprint by 50 million metric tons.





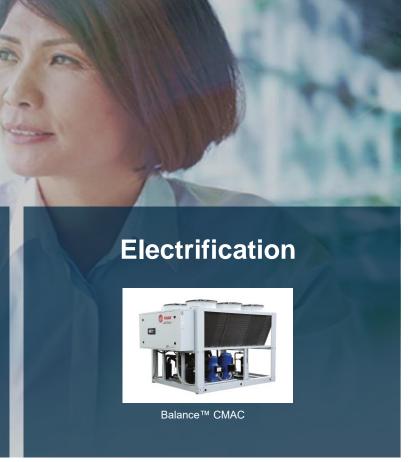
Ingersoll Rand: product innovation

We innovate to solve customer problems

Trane offers **solutions** at every stage within the **life cycle of the building**. We know how to **maximize the potential of a building** when it's first built and every day afterwards.













Ingersoll Rand: chillers for Tomorrow ... Today

What we do matters

We know that what we do makes an **impact on our world**. This is why we provide a breadth of offerings that include industry **leading efficiencies**, **low global warming** potential solutions, world class automation systems, and a complete **energy services** portfolio. Our **solutions matter** for everything that happens **inside and beyond the building**.



EcoWise_m

As part of the Ingersoll Rand Climate Commitment, the EcoWise portfolio of products is designed to lower environmental impact with next generation, low GWP refrigerant options. They are designed to help our customers meet sustainability goals without compromising efficiency, reliability, or safety.

Chillers Features Next-Generation, Low GWP Refrigerants



Screw chillers
Sintesis family

STREAM
Full HFO



Magnetic bearing



Centrifugal Chillers
eCTV







Honeywell Overview

NYSE: HON | ~1,300 sites | ~131,000 employees | Morris Plains, N.J. headquarters | Fortune 100

Home and Building

Technologies

\$9.8B

security, and energy use.



Sales Our products are used on virtually Our products, software, and every commercial and defense aircraft technologies are in more than 150 platform and in more than 100 million million homes and 10 million vehicles worldwide and include aircraft buildings worldwide, helping propulsion, cockpit systems, and customers control their comfort, satellite communications.

Safety and Productivity Solutions \$5.6B Sales

We improve enterprise performance and worker safety and productivity with our scanning and mobile computers, software, warehouse automation solutions, and personal protective equipment.



We develop advanced materials, process technologies, automation solutions, and industrial software that are revolutionizing industries around the world.

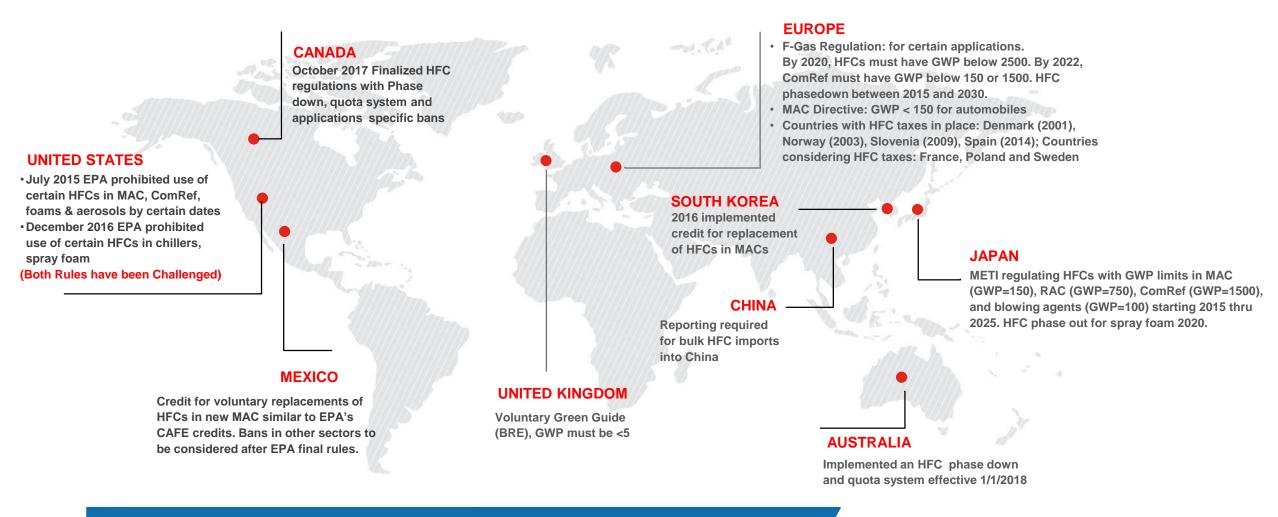
Presenter: Julien Soulet, Honeywell







HFCs Under Pressure for Global Reduction



Presenter: Julien Soulet, Honeywell







Honeywell Fluorine Products

Pioneers in developing next generation solutions to meet global imperatives

Markets

- Air conditioning and refrigeration
- Building and construction
- Appliance and containers insulation
- Aerosols and solvents

Applications

- Refrigerants
- Blowing agents
- Aerosols
- Solvents



Investments: \$900 million in R&D and new capacity

Solstice® yf

- Environment: GWP of 1 vs. 1430
- Performance: Same Cooling Efficiency
- Safety: SAE International Approved
- Cost: Near Drop-in Replacement
- +45M cars on road > 103 models today

Solstice® zd & ze

- Environment: GWP of 1 vs. 1430
- Performance: Higher Cooling Efficiency
- Safety: Meet Safety Requirements
- Cost: Near Drop-in Replacement
- All major chiller OEMs launched Solstice ze and Solstice zd chillers

Solstice® Blends: N40, N13

- Environment: Up to 93% GWP reduction
- Performance: Higher Cooling Efficiency
- Safety: Meet Safety Requirement
- Cost: Near Drop-in Replacement

Presenter: Julien Soulet, Honeywell







Impact of Solstice® to Date



- Solstice® products are making a significant impact
- The use of Solstice® products has helped avoid the release of 79 million tons of CO₂e
- That's equivalent to:

Removing 16 million cars from the road



Carbon sequestered by a forest of the size of Germany



The CO₂ emissions from the energy used by 7.3 million homes



OR

Presenter: Julien Soulet, Honeywell



OR











