



**40<sup>TH</sup> ANNIVERSARY  
ANDRITZ PERFOJET.**

**ANDRITZ**





**ANDRITZ**

[www.andritz.com](http://www.andritz.com)

**ANDRITZ**

Accueil

# NOVEMBER 22

## EVENT SCHEDULE

40<sup>TH</sup> ANNIVERSARY ANDRITZ PERFOJET

1 1:00 - 1 1:15

1 1:15 - 1 1:30

1 1:50 - 1 2:00

1 2:05 - 1 2:30

1 2:35 - 1 2:50

1 2:55 - 1 3:10

1 3:15 - 1 4:00

1 4:00 - 1 5:00

### WELCOME

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### INTRODUCTION, AGENDA, SAFETY INSTRUCTIONS

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### PILOT LINE WETLACE CP™ (TRIALS) TOBIAS SCHÄFER/ ANDRÉ MICHALON

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### PILOT LINE SPUNLACE NATURAL FIBERS ALEXANDRE BUTTE / ARNAUD LAROCHE

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### PILOT LINE DRY MOLDED FIBER (DMF) TRAILS ETTORE PAOLINI / ROMAIN MAYON

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### SERVICE & DIGITALIZATION NICOLAS PIRARD-BRANCHE

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### PANEL DISCUSSION

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### LUNCH

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# Health & Safety information



Dear visitor, thank you for reviewing the following instructions to ensure your safety during your time at our company. We kindly ask that you return to the reception desk at the end of your visit to record your departure.



Do not take photos without authorization.



No smoking or use of e-cigarettes outside the designated smoking areas!



Please use the pedestrian walkway.



Please exercise caution when crossing the yard.



For your safety, earplugs, safety glasses, and safety overshoes are available at the entrances of the workshops.



Please stay within the designated walking areas in the workshops.



Do not touch the parts of the machine.



Please adhere to the posted instructions.



Ensure that you sort your waste properly.

## MANDATORY SAFETY EQUIPMENT

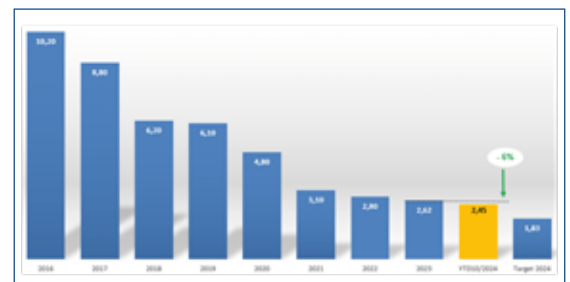
It is mandatory to use the required safety equipment during the visit.

- Safety vest
- Earplugs
- Safety glasses



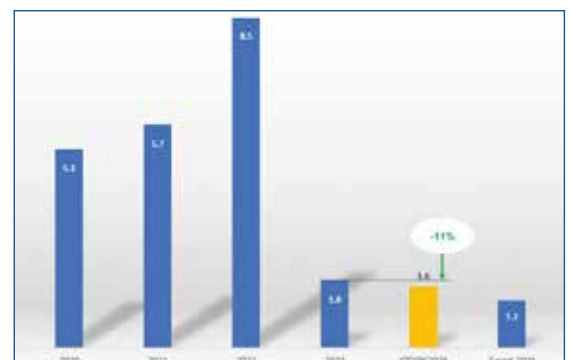
## SAFETY REPORT YTD 10-2024

Lost time injury frequency rate – LTIFR



## HEALTH & SAFETY PERFORMANCE

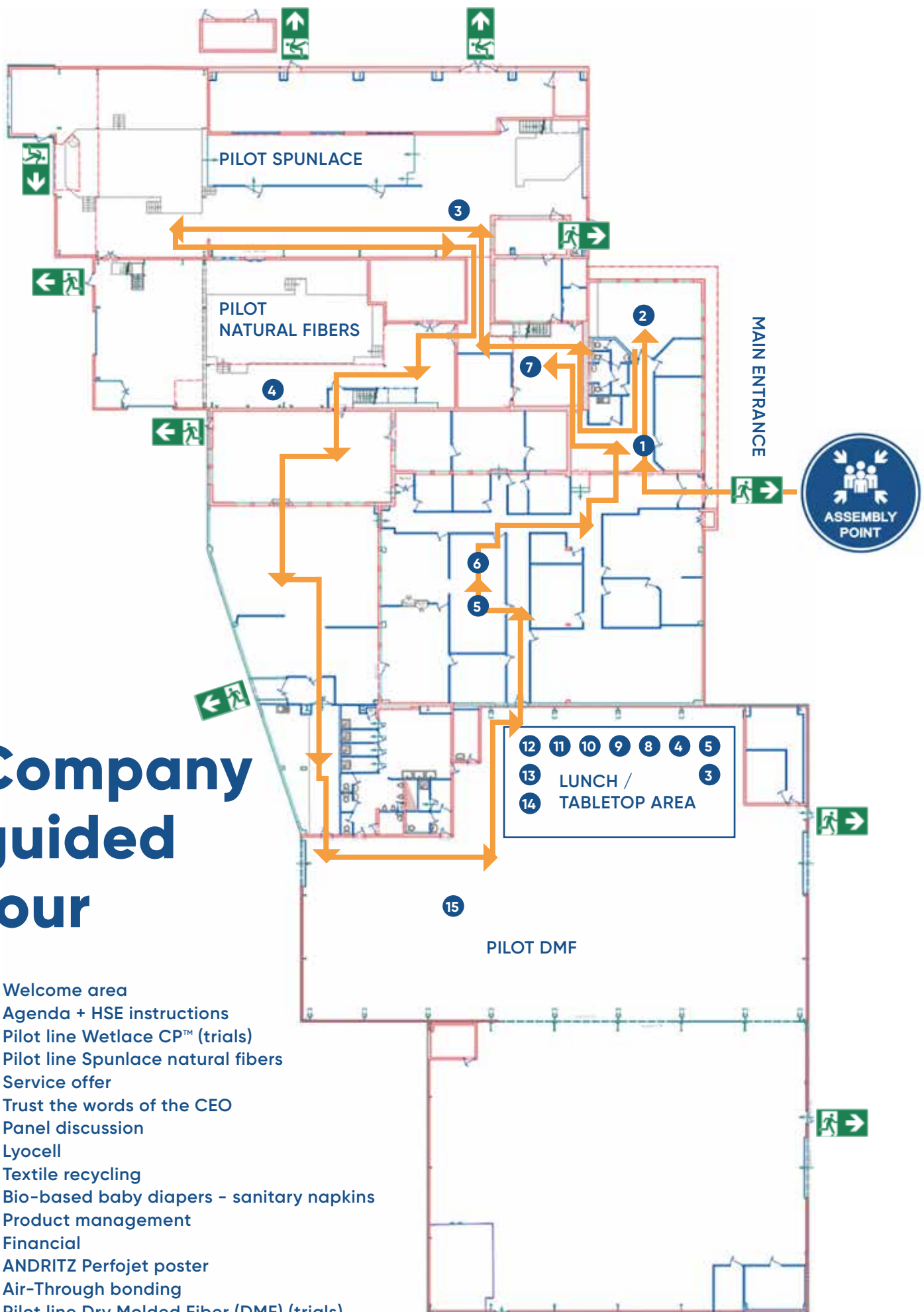
Significant improvement of safety in Nonwoven & Textile





# Company guided tour

- 1 Welcome area
- 2 Agenda + HSE instructions
- 3 Pilot line Wetlace CP™ (trials)
- 4 Pilot line Spunlace natural fibers
- 5 Service offer
- 6 Trust the words of the CEO
- 7 Panel discussion
- 8 Lyocell
- 9 Textile recycling
- 10 Bio-based baby diapers - sanitary napkins
- 11 Product management
- 12 Financial
- 13 ANDRITZ Perfojet poster
- 14 Air-Through bonding
- 15 Pilot line Dry Molded Fiber (DMF) (trials)



# Wetlace CP™ trials on our pilot line

An essential process in bio-wipes production.

## ANDRITZ WETLACE CP™

The fully engineered production lines combine the benefits of Wetlace CP™ and drylaid technologies to provide a solution for a new generation of biodegradable wipes.

The technology has been exhaustively tried and tested on the frontline of nonwoven wet wipes products and has passed the test of the most discerning of end-users.

The process allows the use of wood-pulp, which has a positive impact on raw material costs, at the same time as producing environmentally friendly, completely plastic-free products that are of the highest quality. This represents fully the aim of ANDRITZ in creating a way for ecology and economy to work together in one process.

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## SAMPLE SPECIFICATIONS:

- Basis weight = approximately 60 gsm
- Type of web : patterned with ANDRITZ neXimaging patterning cylinder
- Type of fiber blend:
  - 50% softwood pulp type Sodra Black
  - 50% Lyocell 1.7 dtex 38 mm from Lenzing





# Spunlace technology for natural fibers

Complete solutions for natural fiber processing and nonwoven production.

ANDRITZ offers to the market complete lines to process natural fibers from the plant to the nonwovens. After harvesting, the straw will be decorticated, refined and even cottonized depending on the requested level of fiber fineness. From these fibers a web is formed with a Card or an Airlay and consolidated by the means of Jetlace hydro-entanglement. Equipment from ANDRITZ Laroche, ANDRITZ Asselin-Thibeau, ANDRITZ Küsters and ANDRITZ Perfojet are assembled together to form those lines.

In addition to ANDRITZ Laroche technical center for decortication, the new ANDRITZ Perfojet's pilot line features optimized web forming and entanglement for smooth processing of such sensitive and irregular fibers. It allows customers and partners to conduct trials for producing nonwovens from natural fibers such as hemp, flax, and cotton, but also from recycled textile. The innovative card set-up is designed to protect and maintain the quality of the fibers while achieving outstanding productivity rates.

## **SAMPLE SPECIFICATIONS:**

- Basis weight : 65 gsm
- Type of web : plain
- Type of fiber blend : 75% hemp, 25% Lyocell



# Innovation in absorbent hygiene products

## Bio-based baby diapers and sanitary napkins concept

Sustainability is a serious responsibility for the entire nonwoven industry. In close cooperation with key players in the hygiene industry, ANDRITZ has developed a concept for environmentally sustainable diapers and sanitary napkins made of 90% bio-based materials, perfectly demonstrating that

personal care and environmental protection can go hand in hand. At the same time, this concept can show further development opportunities in the production of increasingly environmentally friendly, sustainable, biocompostable materials made of spunlace nonwovens. At ANDRITZ, we are working with our

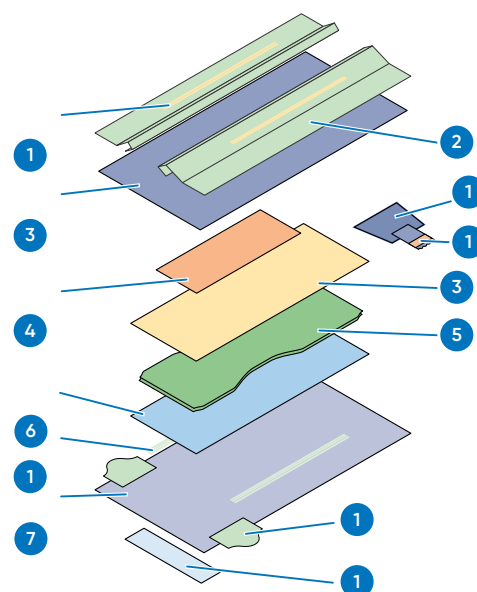
technologies on the entire value chain, from fiber to nonwoven to converting, for our customers to the end user. For the years to come and for a sustainable future.



Baby diaper made of 90% of bio-based components

### PRODUCT COMPOSITION

1. **Elastic elements and closing:**  
Non bio-based elastic film  
Bio-based spunlace nonwovens and bio-plastic hooks  
Non bio-based elastic threads
2. **Leg cuff**  
Spunlace nonwoven with hydrophobic MMCF
3. **Top sheet**  
Spunlace nonwoven with a mix of hydrophobic and hydrophilic MMCF
4. **ADL (Acquisition distribution layer)**  
Spunlace nonwoven with a mix of hydrophobic and hydrophilic coarse denier MMCF
5. **Absorbent core**  
Fluff pulp and 85% bio-based SAP.  
Core wrap with two spunlace nonwoven 100% MMCF
6. **Back sheet film**  
Starch-based bio-plastic film
7. **Backsheet nonwoven**  
Spunlace nonwoven 100% MMCF
8. **Diaper assembly made with**  
non bio-based glue





# Dry Molded Fiber pilot line and trials

ANDRITZ, leveraging its wood pulp expertise, partners with PulPac to launch a DMF pilot line for sustainable packaging solutions.

## DRIVING INNOVATION IN SUSTAINABLE PACKAGING

Andreas Lukas, Senior Vice President, ANDRITZ Nonwoven & Textile, states: "Throughout its history, ANDRITZ has carried the wood pulp industry in its DNA. Thanks to ANDRITZ Dan-Web's expertise in airlaid, this new pilot unit aim for highest capacity, product quality and flexibility. We are thus proud to push the boundaries of our expertise with a new skillset that serves the future of responsible convenience packaging."

Following the strategic partnership signed with PulPac, the swedish pioneer in DMF technology manufacturing, the planned investment at the new technical center will enable ANDRITZ to develop industrial-scale solutions for high speed, turnkey dry molded fiber manufacturing lines for packaging industry customers. The newly installed DMF pilot line will also allow customers to conduct trials, receive support on R&D projects, create new DMF products with appropriate molds and barriers' properties.

The airlaid forming and bonding technologies will enable customers to develop and test new airlaid fabrics with all types of pulp, bicomponent and natural fibers. This investment clearly demonstrates ANDRITZ's capacity to invest in the development of new eco-friendly market applications.



## DRY MOLDED FIBER LINE

Lids are one of the applications made possible with the DMF technology

## TECHNICAL SPECIFICATIONS:

- Cycle time: down to. 5.1 seconds
- Output: approximately 6,000 pcs/h,
- Maximal number of cavities: 9 for collids
- Forming area: 500 x 500 mm,
- Weight of the machine: 11 tons,
- Footprint: L = 9.3 m x W = 2.5 m x H = 2.8 m (fits in a 40' container),
- Press (horizontal): 300 tons

# ANDRITZ Perfojet: 40 years of innovation and leadership in nonwovens technology

## ANDRITZ PERFOJET

ANDRITZ Perfojet, a global leader in nonwovens technology, celebrates its 40<sup>th</sup> anniversary this year. The company pioneered hydroentanglement technology which allows bonding almost any

type of fibers without additional binders. Over the past four decades, more than 300 Jetlace™

hydroentanglement systems have been installed, improving the quality and efficiency of wipes, hygiene and personal care products as well as geotextiles, filters, artificial leather substrates, battery separators and gas diffusion layers. The technology has transformed the production of nonwoven fabrics and set new standards for innovation and sustainability in the industry.

## FUTURE FOCUSED ON SUSTAINABILITY

Building on its legacy, Perfojet continues to lead with advanced solutions such as complete spunlace lines (neXline spunlace,

neXline wetlace) that enable the efficient production of nonwovens from 100% sustainable fibers, and drying solutions (neXdry air-through dryer, neXecodry energy saving solution) that allow to reduce energy consumption by 15% compared to previous solutions. Looking ahead, ANDRITZ Perfojet is committed to supporting the green transition in nonwovens production. The company's R&D efforts are focused on reducing the use of plastic and increasing the use of viscose, lyocell, pulp, and recycled fibers. In addition, its technology and spunlace pilot lines in Montbonnot, France, offer customers the opportunity to process new sustainable fibers such as hemp, linen, flax and wool. "As we celebrate this milestone, we are proud of our heritage and excited about the future within the ANDRITZ Nonwoven & Textile global team," says Bruno Roche, Managing Director of ANDRITZ Perfojet. "Our focus is to provide sustainable, resource-efficient technologies and economically viable solutions that support the green transformation of the nonwovens industry."



## BRUNO ROCHE

Senior Vice President Nonwoven, Nonwoven & Textile division,  
General Manager ANDRITZ Perfojet



# Proactive & responsive service

## OPTIMIZED PERFORMANCE WITH EXPERT SERVICES

Our skilled experts and comprehensive service portfolio ensure that nonwoven and textile machines operate at peak efficiency.

- SYNERGY™ agreements
- Digital & remote solutions
- Rebuilds & modernization
- Process expertise
- Spare part management
- Local and on site support
- Roll service



LOCAL SUPPORT



REPAIRS & UPGRADES



SECOND-HAND & RENTALS



TRAINING



OEM SPARE PARTS



SERVICE AGREEMENTS



PROCESS OPTIMIZATION



LAB AND ON-SITE TESTS

# How can the paper and textile industries help futureproof the planet?

Industry leaders tackle challenges and share innovative solutions.

## JOIN OUR PANEL DISCUSSION WITH TOP INDUSTRY EXPERTS AND EXPLORE:

- The biggest challenges facing paper and textile industries.
- First steps companies can take toward sustainability.
- Real examples of ANDRITZ's innovative solutions driving change.

**PANEL  
DISCUSSION**  
**22.NOV.**  
**13:15 - 14:00**  
**SHOWROOM**  
—  
LET'S SHAPE A SUSTAINABLE  
FUTURE TOGETHER!



**MARK RUSHTON**  
Moderator and  
journalist



**DR. JOACHIM  
SCHÖNBECK**  
CEO and President of  
ANDRITZ Group



**ANDREAS LUKAS**  
Senior VP ANDRITZ  
Nonwoven & Textile



**DR. MARINA  
CRNOJA-COSIC**  
President of Textile  
European Technology  
Platform



**JULIEN BRAS**  
Pr. INP Pagora –  
Cellulose Valley  
Chairman



**JEAN HENIN**  
CEO Pellenc ST

