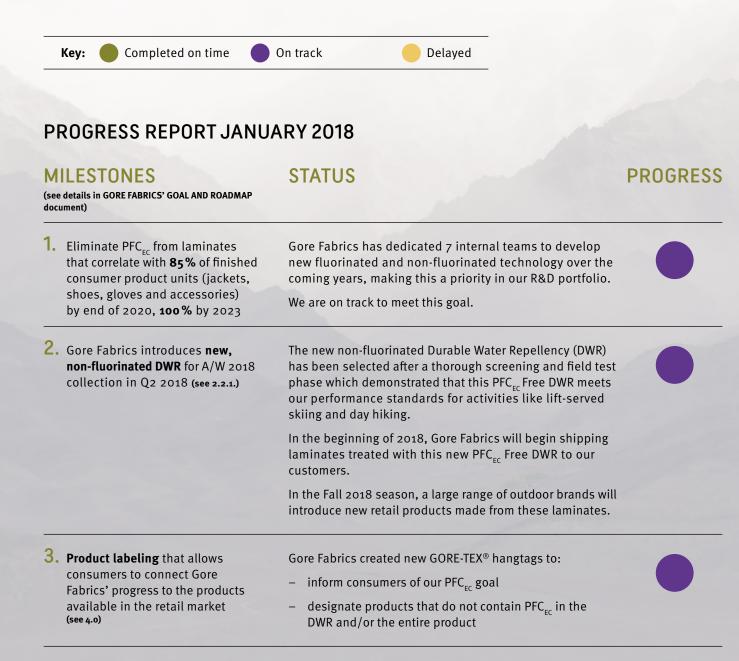
2018 ANNUAL UPDATE ON "GORE FABRICS' GOAL AND ROADMAP FOR ELIMINATING PFCS OF ENVIRONMENTAL CONCERN"

INTRODUCTION

GORE[®]

In February 2017, Gore Fabrics announced the "Goal and Roadmap for Eliminating PFCs of Environmental Concern (PFC_{EC})" from the lifecycle of its consumer fabrics products following an intense and fruitful discussion with Greenpeace. This has led to an ambitious research and development (R&D) program for Gore Fabrics that stretches over several years to 2023. This program will allow us to develop new consumer outdoor products targeting the optimal combination of performance and improved environmental footprint.

As we want to make sure that our customers, end consumers and the broader public stay with us on this journey we will publish regular updates on progress we are making in achieving our goals.



MILESTONES

STATUS

PROGRESS

(see details in GORE FABRICS' GOAL AND ROADMAP document)

4.	New ePTFE barriers made without using PFC _{EC} as polymerization aids (see 2.2.2.)	Gore Fabrics and our suppliers made significant progress in developing new PTFE grades that no longer require PFC _{EC} in their manufacturing. In late 2017, we began early prototyping efforts with these new PTFE grades.	
		Although technical uncertainties remain, we are on track to meet this goal.	
5.	Alternative membrane materials that are not based on fluorinated materials (see 2.2.3.)	Gore Fabrics evaluated numerous options for non- fluorinated membrane materials and selected a limited range of technologies for continued assessment.	
6.	PFC_{EC} Free DWR for the most technically challenging uses (see 2.2.4)	The development of PFC _{EC} Free DWR for highly demanding end-uses is a significant challenge ahead, but with close external collaboration we have been making substantial progress and expect to narrow our work to the most promising routes in 2018.	
7.	PTFE incineration study to evaluate potential releases of a broad range of PFC _{EC} over representative municipal incineration conditions (see 5.1.)	Gore Fabrics evaluated scientific resources worldwide and commissioned the renowned Institute of Technical Chemistry at the Karlsruhe Institute for Technology, Germany, to conduct the PTFE incineration study in its pilot size municipal incineration plant. An independent third party laboratory was selected to perform sample analyses.	
		A variety of stakeholders have provided input on the draft of the study plan.	
		Validation campaigns ran in September and November 2017, and the incineration study campaign will be carried out in February 2018.	
		KIT and Gore Fabrics intend to publish the findings in a peer- reviewed journal (timing will depend on peer-review process).	
		Evaluating global resources, designing the study and con- sulting with a range of stakeholders took more time than anticipated, therefore this project is running behind schedule.	
8.	Implementation of a standardized Hazard Assessment Approach, reporting to begin by end of 2018 (see 3.1)	Beyond our long standing work with bluesign [®] systems and OEKO-TEX [®] Standard 100, Gore Fabrics will develop and deploy additional protocols to rapidly screen the properties of new materials resulting from its innovation program. Gore's product safety and chemical compliance experts have evaluated several emerging methodologies and will decide on one methodology early this year.	
		bluesign System Bartner	