LATEST TRENDS IN THE EVOLUTION OF PEFC CERTIFICATION

Adrian ILIE¹, Andrei APĂFĂIAN², Dan Răzvan Eugen PUICEA³, Cristian Mihai ENESCU¹

¹University of Agronomic Sciences and Veterinary Medicine of Bucharest, 59 Mărăști Boulevard, 1st District, Bucharest, Romania; Email: adrian.ilie1993@yahoo.com, mihaienescu@agro-bucuresti.ro
²Transilvania University of Brașov, 25 Eroilor Street, Brașov, Romania; Email: brigadieru_silvic@yahoo.com
³Marin Drăcea National Institute for Research and Development in Forestry, 13 Cloșca Street, Brașov, Romania; Email: razvanpuicea@gmail.com

Corresponding author: mihaienescu21@gmail.com

Abstract

Worldwide, PEFC™ represents the most spread certification scheme in forestry. The goal of this paper was to highlight the evolution of the number of Chain of Custody (CoC) certificates and the PEFC™ certified area worldwide between 2013 and 2017, by analyzing the public data provided by the official website. Currently, the total PEFC™ certified forest area accounts for approximately 313 million hectares, out of which 55% are located in North America. As for the largest forest areas certified by PEFC™ the top three places are held by Canada, The United States of America and Australia. At the end of 2017, in Europe the PEFC™ scheme had certified forests from a total number of twenty four countries, with the highest areas being shared by Finland, Russian Federation and Sweden. According to the most recent statistics, around 82% of the total CoC certificates issued worldwide were recorded in Europe, France, Germany and United Kingdom being the countries with the highest shares. Currently, in Romania only twenty three CoC certificates were issued and no forest area was yet certified.

Key words: Chain of Custody, CoC, Europe, forest certification, PEFC™

INTRODUCTION

In general, forest certification represents a mechanism aimed to promote a sustainable forest management through preserving the functions of the forests and to provide economic benefits at the same time [21]. The certification schemes are voluntary, being regarded as an useful instrument of Corporate Social Responsibility (CSR) in the case of the wood industry [17].

Worldwide, several forest certification systems exist [20], such as Forest Stewardship Council (FSC®) and Pan-European Forest Certification (PEFC™) that represent the most common ones [7], [18]. PEFC™ was set up twenty years ago by a group of European stakeholders [8], mainly forest owners, being a non-profit organization which assesses, endorses and recognizes the national certification schemes [28]. PEFC™ was criticized right from the beginning for the fact that it is mainly focused on the economic income and very little attention is given to the ecological functions and services provided by the forest ecosystems [16]. Starting from its birth, PEFC™ was seen as an alternative to FSC® aimed at preventing the spread of the latter one across European countries [25]. From the point of view of forest companies, this certification scheme is perceived as one that has fewer requirements regarding sustainable forest management standards [30].

Like in the case of FSC® certification scheme, PEFC™ promotes also the concept of Chain of Custody (CoC), which guarantees that the wood or wood-based products came from properly managed forests [10], [12]. Starting from 2013, PEFC™ aligned its Chain of Custody standard in the case of imported wood and wood products with the requirements of the European Timber Regulation (EU-TR), especially as regards the due diligence system (DDS) [15].
The special attention which is paid to the management of the artificial regeneration of the forests by using certified forest seeds [29] and the reduction or even the elimination of the pesticides [23] represent ones of the most important provisions of the PEFC™. In some countries, PEFC™ standard takes into account the management of the non-timber forest products (NTFPs). An example is the aromatic essence extracted from mugo pine (Pinus mugo Turra) in Italy [27].

The total number of certified forests had grown exponentially since the release of the PEFC™ scheme. Five years after its appearance, the total area of the certified PEFC™ forests worldwide accounted for more than 46 million hectares [9]. After two years, the total certified area reached more than 187 million hectares [11], expanding to 202 million hectares in 2008 [2], 220 million hectares in January 2010 [1] and 232 million hectares at the end of 2010 [3].

In 2005, the PEFC™ certified forest area from Western Europe accounted for around four-fifths of the European certified forest lands [19]. After another six years, the total area of PEFC™ certified forests in EU countries was around 48 million hectares, being almost double in comparison with the FSC® certified area [5].

According to the latest available statistics, it is estimated that nowadays the total certified forest area (mainly PEFC™ and FSC®) represents around 10% of the globally forest area [14], [22].

As concern the situation in Romania, where the forests account for more than 27% of its area [24], only FSC® and PEFC™ certification standards were present at the time of this study [6]. As regards the FSC®, nowadays there are more than 2.7 million hectares certified, the vast majority of them bellowing to the state and being managed by the National Forest Administration ROMSILVA. Instead, until recently little attention was given to PEFC™. In 2014, a meeting of the representatives of the private forest owners and wood industry took place in Brașov and the opportunity to implement the PEFC™ certification scheme was debated [13]. After several other meetings that took place in the last years, the national standard was adopted, being currently under revision by the international PEFC™ structure.

The purpose of this paper was to point out the evolution of the number of the Chain of Custody certificates and of the certified forest area in the timeframe 2013 - 2017.

MATERIALS AND METHODS

All the data regarding the number of released Chain of Custody certificates and the certified forest area for the timeframe 2013-2017 was gathered from the official website of PEFC™, from Facts & Figures section [26].

RESULTS AND DISCUSSIONS

In the case of the certified forest lands, their area increased from 253 million hectares, in 2013, to 313 million hectares, in 2017 (Fig. 1).

In 2017, the highest share (55%) of the certified forests was recorded in North America, followed by Europe (30%) and Oceania (almost 8%), while the smallest share was hold by Central and South America.

Across Europe, countries such as Finland, Russian Federation and Sweden were the ones with the highest certified PEFC™ areas, while the Netherlands, Luxembourg and Switzerland ranked in the last positions (Fig. 2).
In the last five years, the number of CoC certificates increased with approximately 1,500 (Fig. 3).

In 2017, around four-fifths of the total CoC certificates were recorded in Europe, France, Germany and United Kingdom being the countries with the highest shares, with 21%, 18% and 12%, respectively, while in Cyprus, Greece and Croatia the fewest numbers were recorded (Fig. 4).

According to the data available in 2017, twenty three Chain of Custody certificates were valid in Romania (Fig. 4), the situation being more or less similar with the one from Turkey.

CONCLUSIONS

North America holds the highest area of PEFC™ certified forests, while in Europe the highest number of CoC certificates was recorded.

Given the current situation regarding the area of certified forests worldwide (more than 313 million hectares PEFC™ certified and around 200 million hectares FSC® certified) and the market demands, it is expected that soon after the approval of the national PEFC™ standard, several small private owners from Romania will certify their forests and more companies from the wood industry will get their CoC certificates.

Last but not least, PEFC™ could play an important role in Romania as regards the certification of the NTFPs, being well known that the country has a great potential in marketing of these forest products [4].

REFERENCES