EUROBATS National Implementation Report

In the Resolution 7.4, the 7th Meeting of Parties to EUROBATS decided to adopt a new format for the National Implementation Reports and instructed the Secretariat to make this new format available for online completion in time for MoP8.

Present format of national reports was carefully revised by the relevant Intersessional Working Group during the 20th Meeting of the Advisory Committee (2015) in order to include the Resolutions of MoP7 and is now available on the CMS Family Online Reporting System (ORS).

Please visit the Support Centre page in case of any questions regarding the Online Reporting System. The link is available in the bottom left corner.

A. General Information

Name of your country
› ESTONIA

Period covered by this report
› 2015-2017

Compilers and contributors to this report
› Kaja Lotman
B. Status of bat species within the territory
Please assess a national status ONLY for those bat species from the Annex 1 to EUROBATS Agreement that were recorded in your country

Barbastella barbastellus (Schreber, 1774)
Status of the species occurrence
☑ Occasional

General comments
Comments
Add specific comments, if required
› Registered 1 time (Tabasalu, 2005)

Overall national trend
☑ Not studied

Status in the National Red List (when it exists)
☑ NE, not evaluated

Year of assessment
› 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ No

Eptesicus nilssonii (Keyserling & Blasius, 1839)
Status of the species occurrence
☑ Resident

Status in the National Red List (when it exists)
☑ LC, Least Concern

Year of assessment
› 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
› 2012

Conservation status per biogeographical region
FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad); XX = unknown.
NO = doesn't occur in the region

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Myotis brandtii (Eversmann, 1845)

Status of the species occurrence
☑ Resident

General comments

Comments

Add specific comments, if required
› Locally spread

Overall national trend
☑ Not studied

Status in the National Red List (when it exists)
☑ NT, Near Threatened

Year of assessment
› 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
› 2012

Conservation status per biogeographical region

FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad); XX = unknown.
NO = doesn’t occur in the region

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Myotis dasycneme (Boie, 1825)

Status of the species occurrence
☑ Resident
General comments

Comments
Add specific comments, if required
› widespread

Overall national trend
☑ Not studied

Status in the National Red List (when it exists)
☑ NT, Near Threatened

Year of assessment
› 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
› 2012

Conservation status per biogeographical region
FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad); XX = unknown.
NO = doesn't occur in the region

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Myotis daubentonii (Kuhl, 1817)

Status of the species occurrence
☑ Resident

General comments

Comments
Add specific comments, if required
› widespread

Overall national trend
☑ Stable

Status in the National Red List (when it exists)
☑ LC, Least Concern
Year of assessment
› 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
› 2012

Conservation status per biogeographical region
FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad); XX = unknown. NO = doesn’t occur in the region

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**Myotis mystacinus (Kuhl, 1817)**

Status of the species occurrence
☑ Resident

**General comments**

Comments
Add specific comments, if required
› Rare

Overall national trend
☑ Not studied

Status in the National Red List (when it exists)
☑ DD, Data Deficient

Year of assessment
› 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
› 2012

Conservation status per biogeographical region
FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad); XX = unknown.
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**Myotis nattereri (Kuhl, 1817)**

Status of the species occurrence
☑ Resident

**General comments**

Comments

Add specific comments, if required

➢ Rare

Overall national trend
☑ Not studied

Status in the National Red List (when it exists)
☑ DD, Data Deficient

Year of assessment
➢ 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
➢ 2012

Conservation status per biogeographical region

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Nyctalus leisleri (Kuhl, 1817)

Status of the species occurrence
☑ Occasional

General comments

Comments
Add specific comments, if required
> Registered 9 times in East-, South-Estonia and one time in at the monitoring route also in West-Estonia

Overall national trend
☑ Not studied

Status in the National Red List (when it exists)
☑ NE, not evaluated

Nyctalus noctula (Schreber, 1774)

Status of the species occurrence
☑ Resident

General comments

Comments
Add specific comments, if required
> Locally spread

Overall national trend
☑ Positive

Status in the National Red List (when it exists)
☑ LC, Least Concern

Year of assessment
> 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
> 2012

Conservation status per biogeographical region
FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad; XX = unknown. NO = doesn't occur in the region
### Pipistrellus nathusii (Keyserling & Blasius, 1839)

**Status of the species occurrence**
☑ Resident

**General comments**

Add specific comments, if required

> Widespread

**Overall national trend**
☑ Positive

**Status in the National Red List (when it exists)**
☑ LC, Least Concern

**Year of assessment**
> 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

**Year of report**
> 2012

**Conservation status per biogeographical region**

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Pipistrellus pipistrellus (Schreber, 1774)

Status of the species occurrence
☑ Resident

General comments

Comments
Add specific comments, if required
> Locally spread

Status in the National Red List (when it exists)
☑ LC, Least Concern

Year of assessment
> 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
> 2012

Conservation status per biogeographical region

FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad); XX = unknown.
NO = doesn’t occur in the region

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Pipistrellus pygmaeus (Leach, 1825)

Status of the species occurrence
☑ Occasional

General comments

Comments
Add specific comments, if required
Rare, was added to the list of protected species 12.06.2014

**Overall national trend**
- ☑ Not studied

**Status in the National Red List (when it exists)**
- ☑ NE, not evaluated

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
- ☑ Yes

**Year of report**
- 2012

**Conservation status per biogeographical region**

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**Plecotus auritus (Linnaeus, 1758)**

**Status of the species occurrence**
- ☑ Resident

**General comments**

**Comments**
Add specific comments, if required
- widespread

**Overall national trend**
- ☑ Not studied

**Status in the National Red List (when it exists)**
- ☑ LC, Least Concern

**Year of assessment**
- 2008

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
- ☑ Yes
Year of report
> 2012

Conservation status per biogeographical region
FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad); XX = unknown. NO = doesn’t occur in the region

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**Vespertilio murinus Linnaeus, 1758**

Status of the species occurrence
☑ Resident

**General comments**

Comments
Add specific comments, if required
> rare

Overall national trend
☑ Not studied

Status in the National Red List (when it exists)
☑ DD, Data Deficient

Has the status been reported under the Article 17 of the Habitat Directive or for the Emerald network (non-EU countries)?
☑ Yes

Year of report
> 2012

Conservation status per biogeographical region
FV = favourable; U1 = unfavourable-inadequate; U2 = unfavourable-bad); XX = unknown. NO = doesn’t occur in the region

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C. Measures taken to implement Article III of the Agreement

Does the national legislation protect all bat species?
☑ Yes

Please, give details of the legislation which is protecting bats
› Nature Conservation Act

Which species are not protected and why?
› All species are protected except occasional species like Barbastella barbastellus and Nyctalus leisleri
1. Guidelines for the issue of permits for the capture and study of captured wild bats

Does the system of permits or licenses for the capture of bats exist in your country?
☑ Yes

Comments (optional)
› Nature Conservation Act

System of permits or licences to keep bats for educational or animal welfare purposes
☑ In place

System of permits or licences for sampling, ringing, killing of bats for scientific studies
☑ Exists
2. Identified and protected sites which are important to the conservation of bats

Click "expand" to see the questions!

Resolution 5.7. Guidelines for the protection of overground roosts, with particular reference to roosts in buildings of cultural heritage importance

2.4. List of national important overground roosts (including legal/physical protection status)
☑ Exists

Please, give details or links
› The list exist in the Nahkhiiirlaste (Vespertilionidae) kaitseks tegevuskava 2017-2021 (Action Plan of protection of Bats 2017-2021)

2.5. National guidelines for custodians of historical buildings on the protection of bat roosts have been developed
☑ Yes

Please attach a file or or provide a link
› General guidelines are in Nahkhiiirlaste (Vespertilionidae) kaitseks tegevuskava 2017-2021 (Action Plan of protection of Bats 2017-2021)

Comments
› The discussions are in progress.

2.6. Summary report on interactions between the relevant cultural and natural heritage agencies (attach a file or provide a description)
› Environmental Board and Cultural Heritage Board are working on that.

Resolution 7.6. Guidelines for the protection and management of important underground habitats for bats

Updated counts of bats at each listed site are submitted to the Secretariat
☑ Yes

2.1. List of important underground sites

2.1. List of important underground sites for bats and measures of their protection (including Natura 2000, Emerald or other status) was submitted to EUROBATS
☑ Yes

When the latest update was submitted?
› 2017

Comments
› Action plan for protection bats contains the description of important habitats for bats

2.2. Management of important underground sites for bats is in accordance with EUROBATS Publication n°2
☑ Yes

Comments
› Renovation of most important wintering habitat for bats in Estonia - Piusa caves

2.3. Other relevant activities for the protection of underground habitats
› Renovation of an old celler for bats hibernation in Lääne county in 2016 by Forest Management Centre and volunteers from Estonian Fund for Nature

Preparation of Application for LIFE EstBat by Estonian Fund for Nature in 2016-2017
3. Consideration given to habitats which are important to bats

Click "expand" to see the questions!

**Resolution 7.7. Bat conservation and sustainable forest management**

National guidance has been developed based on the principles in the EUROBATS Bats and Forestry leaflet
☑ Yes

Please attach a file or provide a link
› http://vana.loodusajakiri.ee/eesti_mets/artikkel582_555.html

Examples of best practice for forest management are submitted to the Secretariat
☑ No

Research in forest management that is sustainable for bats (attach file or provide links)
› No research have been done

**Resolution 7.8. Conservation and management of critical feeding areas, core areas around colonies and commuting routes**

Awareness of the importance of critical feeding areas, core areas around known colonies and commuting routes for bats exists
☑ Yes

Give details of activities devoted to raising awareness
› The collection of data is going on and and collected to the Estonian Nature Database EELIS, which is available to decision makers

Measures to take bats into account in land use and planning decisions
☑ Yes

**Measures, if yes**

Describe these measures, please
› The national guidelines for environmental impact assessment and planning of green infrastructure describes the importance of taking into account data about bats.

Research and monitoring to improve understanding of the use of landscape by bats are ongoing
☑ Yes

**research, if yes**

Please, specify or give references to studies
Moks, Epp; Remm, Jaanus; Kalda, Oliver; Valdmann, Harri (2015). Eesti Imetajad. Varrak

National guidelines, drawing on the general guidance published in EUROBATS Publication have been developed
☑ Yes
4. Activities to promote the awareness of the importance of conservation of bats
Click "expand" to see the questions!

4.1. International Bat Night. Give details for each year: number of events and number of people participated
› The international bat night has been organized in different time in summer and in different places overall Estonia
2015 - 6 events registered approximately 200 participants
2016 - 4 events registered approximately 150 participants
2017 - 5 events registered approximately 250 participants

4.2. Details of other important activities which are worth to mention (educational centres, etc.)
› Batwatches and batwalks where organised:
2015
Emajõe Lodjaselts in Emajõe river Tartu town
Nature Museum in Tallinn
Keila town community
Hanila Museum
Tallinn Kassisaba community
Bat walks in Luke manour
Introduction to Bats in Kuukhobu kindergarten

2016
Setu Folk Musical Event
Emajõe Lodjaselts in Emajõe river Tartu town
Tartu Nature Centre
Nature Museum in Tallinn
Introduction to Bats in Kuukhobu Kindergarden
Batwalks in Luke manour

2017
Batwalks:
Viru Folk Music Event
Tallinn Nature Museum
Emajõe Lodjaselts
Tartu Nature Centre
Lectures about Bats in Nõmme Gymnasium

4.3. Information on training and awareness raising for forest managers and workers, farmers, road workers, stakeholders involved in insulation of buildings, etc.
› Estonian Fund for Nature worked out guidelines and raised awareness for construction owners 2016

Resolution 4.11. Recognising the important role of NGOs in bat conservation

4.4. Details of NGOs participating in /contributing to bat protection and most valuable activities that have the potential to substantially improve transboundary cooperation and mutual assistance
› 1. Estonian Fund for Nature has been supported to submit application for new Pond Bat’s LIFE Project
2. In the process of renewing the Action Plan to protect Bats in Estonia all experts and Bat NGO-s where called to participate.
3. Most of the Bat NGO-s are involved in monitoring programmes of Bats
5. Additional actions undertaken to safeguard populations of bats

Resolution 2.2. Consistent monitoring methodologies

5.1. Implementation of EUROBATS guidelines published in EUROBATS Publication n°5 to ensure consistency and information exchange between Parties and Range States
☑ Yes

Please give details
› State monitoring is organized by Environmental Agency. In the methods of monitoring the guidelines of EUROBATS Publication have been taken account

Resolution 5.4. Monitoring bats across Europe

5.11. Involvement in a long-term pan-European surveillance to provide trend data
☑ Yes

Involvement details

Please, give details of involvement
› Red Book - data on bats

Awareness-raising of the importance of underground sites
☑ No

Collaboration and information exchange with other Parties and range states on surveillance and monitoring activities
☑ No

5.14. Monitoring bats in accordance with EUROBATS Publication n°5
☑ Yes

5.15. Capacity building of bat workers and surveyors to support the undertaking of bat surveillance projects
☑ Exists

Other activities under Resolution 5.4.
› There is a collaboration between Latvian, Lithuanian and Belarussian bat experts in 2015-2017

Resolution 6.6. Guidelines for the prevention, detection and control of lethal fungal infections in bats

5.17. Surveillance for the presence of fungal infections
☑ Yes

Please provide details
› There have been recorded at least two times Geomyces destructans in Estonia between 2015-2017: 2015 Ülgase wintering site and 2017 Vääna-Posti wintering site in North Estonia and the infected specimen where Myotis brandti. The data is collected in frames of monitoring in hibernation sites and sent to Dr Sébastien Puechmaille for identification.

Resolution 6.13. Bats as indicators for biodiversity

5.19. Does your country support a development of national, regional and pan-European biodiversity indicators for appropriate target audiences, using bat data
☑ No

5.20. Bat data is incorporated within high profile national multi-taxa indicators
☑ No

5.22. Cooperation platforms that facilitate the required data exchange
☑ Exist

Please specify or give links
Biodiversity data has been held in national nature data base EELIS, but also Tartu University database.

Other activities carried out under this resolution (optional)
› There is good cooperation at least on experts level between Estonia, Latvia, Finland and Belarus

**Resolution 7.5. Wind turbines and bat populations**

5.2. Raising awareness on the impact of turbines on bats and the existence of some unsuitable habitats or sites for construction
☑ Yes

If yes, how?
› Articles in newspapers, surveys etc

5.3. Pre-construction impact assessments, if possible, undertaken by suitably experienced bat experts
☑ Yes

Please, give details
› For large wind parks there have been general planning processes where the impact for bats have been studied. Planning of marine areas for the sea around Hiiumaa and Pärnu Bay. Aseri Wind Parks EIA

5.4. National guidelines were developed following Eurobats Pub. No. 6
☑ No

National guidelines are implemented
☑ Partially

Please, provide implementation details
› Guidelines in Estonian are not available, but the general guidelines by EUROBATS have been taken into account and recomended by Environmental Board and experts.

5.5. Investigations and research for mitigating bat mortality have been undertaken
☑ Yes

Please, list references, attach reports and articles

5.6. Additional information on research on the impact of wind turbines on bat populations

List new references, attach reports or articles
http://www.klimamuutused.ee/mida-mina-saan-teha/roheline-elektrivalik/tuuleenergia
https://energiatalgud.ee/img_auth.php/3/3c/Volke%2C_V.%2C_Keerberg%2C_L._V%C3%A4iketuulikute_m%C3%B5ju_lindudele JA_nahkhiirtele._2014.pdf
http://www.parnu.ee/OV/PaikuseOV/YP_Paikuse/Paikuse_YP_KSH_aruanne_lisaC.pdf

5.7. Post-construction monitoring, if possible, is undertaken by suitably experienced bat experts
If yes, give details
☑ Yes

› In Virtsu wind-parc the detector research have been done

5.8. Raw data from environmental impact assessment and post-construction monitoring is available for independent scientific analysis
☑ No

5.9. Blade feathering, higher cut-in wind speeds and shutting down turbines are used to reduce or avoid...
bat mortality
☑ No

Other activities carried out under Resolution 7.5 (optional)
› There are no other activities

**Resolution 7.9. Impact of roads and other traffic infrastructures on bats**

5.23. Bats are taken into account during the planning, construction and operation of roads and other infrastructure projects
☑ Yes

Please give details or attach a file with description
› In the areas where important bat sites have been registered the impact assessment is mandatory

5.24 Pre-construction strategic and environmental impacts assessment procedures are mandatory
☑ Are mandatory

5.25. Post-construction monitoring
☑ Required occasionally

5.26. Raw data from environmental impact assessment and post-construction monitoring is available for independent scientific analysis
☑ No

5.27. Research into the impact of new and, where appropriate, existing roads and other infrastructure on bats and into the effectiveness of mitigation measures
☑ No

5.28. National guidelines are developed
☑ No

Other activities carried out under Resolution 7.9 (optional)
› There are no other activities carried out

**Resolution 7.10. Bat Rescue and Rehabilitation**

5.29. Animal rescue and rehabilitation systems are effective in the country
☑ Yes

5.30. Collaboration between bat rehabilitators and scientists
☑ Exists

Provide examples of collaboration
› University of Lifesience of Estonia Institute of Veterinary is making first steps to offer service for rehabilitataion of bats

5.31. Bat rehabilitators contribute their data to a national database
☑ Yes

Please provide information about this database
› Estonian Nature Database EELIS

**Resolution 7.11. Bats and building insulation**

5.32. Are there conflicts between insulation regulations and bat conservation?
☑ No

5.34. Impacts on bats are included in the environmental assessment of insulation programs
☑ No

**Resolution 7.12. Priority species for autecological studies**

Rhinolophus blasii Peters, 1866
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Eptesicus isabellinus (Temminck, 1840)**
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Myotis escalerae Cabrera, 1904**
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Nyctalus azoreum (Thomas, 1901)**
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Nyctalus lasiopterus (Schreber, 1780)**
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Pipistrellus hanaki Hulva & Benda, 2004**
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Pipistrellus maderensis (Dobson, 1878)**
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Plecotus kolombatovici Dulic, 1980**
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Plecotus sardus Mucedda, Kiefer, Pidinchedda & Veith, 2002**
Some studies have been conducted (are ongoing) for this species in the country ☒ No

**Plecotus teneriffae Barrett-Hamilton, 1907**
Some studies have been conducted (are ongoing) for this species in the country ☒ No
6. Recent and ongoing programmes (including research and policy initiatives) relating to conservation and management of bats
Click "expand" to see the questions!

Resolution 2.3. Transboundary programme: species proposals
6.1. Inclusion of Myotis dasycneme and Pipistrellus nathusii in transboundary cooperation
☑ Yes

Please attach documents
› There is good cooperation between Latvian and Estonian experts in topics of migration of bats on Eastern coast of Baltic Sea

Resolution 2.4. Transboundary programme: habitat proposals
6.2. National research on underground sites has been undertaken since the last reporting
☑ Yes

Please list references
› National monitoring of bats in certain hibernation sites

6.3. National research on bats in forests
☑ Yes

Please list references
› Inventories in selected parks

Resolution 5.2. Bat rabies in Europe
6.5. National bat rabies surveillance network
☑ Yes

Please give details
› Food and Veterinary Board is the leading organisation. Environment Agency has contracted bat experts for state monitoring activities with the request to collect dead bats for rabies investigation. Investigated specimens: 2015-1, 2016-9, 2017-2

6.6. Vaccination against rabies is compulsory
☑ No

6.7. Details of the institution(s) in charge of recording of all test results and their submission to the World Health Organisation
› The recording organisation is the Estonian Food and Veterinary Board

Resolution 6.5. Guidelines on ethics for research and field work practices
6.9. National Code of Practice that addresses the context and legitimacy of acquisition, due diligence, long-term care, documentation, relevance and institutional aims
☑ Doesn't exist

6.10. Other activities carried out under this resolution (optional)
› Action plan for protection bats 2017-20122,
The contracts with experts who are providing state monitoring

Resolution 6.8. Monitoring of daily and seasonal movements of bats
Please select a species for which a research in daily/seasonal movements has been conducted from the list

Myotis dasycneme (Boie, 1825)
New data on daily movements was obtained
☑ Yes

Please attach a list of references
The pilot study was made by Lauri Lutsar in 2017 and the data is not published yet.

New data on seasonal movements was obtained
☑ No

6.12. Other activities carried out under this resolution (optional)
☑ There has not been research activities in 2015-2017 on daily/seasonal movements of bats
7. Consideration being given to the potential effects of pesticides on bats, and their food sources and efforts to replace timber treatment chemicals which are highly toxic to bats

Click "expand" to see the questions!

Resolution 4.5. Guidelines for the use of remedial timber treatment

7.1. Small projects to provide basic data to allow an assessment of the potential impact of industry on bat populations
☑ No

7.2. Raising awareness of product users is taking place
☑ No

7.3. Legislation on products which have any adverse effects on bats
☑ Doesn't exist

Resolution 6.15. Impact on bat populations of the use of antiparasitic drugs for livestock

7.4. Efficient non-chemical methods to control livestock parasites and use of products of least toxicity to non-target species implemented
☑ Yes

Please give details

7.5. Research on the use of antiparasitic drugs
☑ No

7.6. Recommendations in Annex I to the Resolution 6.15 are adopted
☑ No

7.7. Other activities carried out under this resolution
› There are no other activities on this resolution
8. Further important activities to share with other Parties and Range States

Give details or provide links
› https://life.envir.ee/estbatlife
Confirmation

Confirmation of information verification and approval for submission

Date of submission
Fill as follows: dd.mm.yyyy
› 30.08.2018