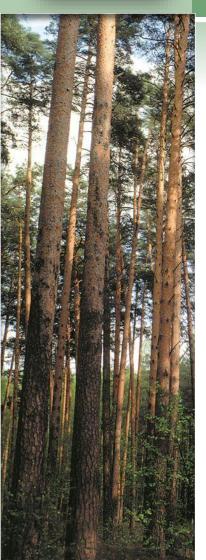


CLIMATE CHANGE MITIGATION AND ADAPTATION - PROBLEMS AND POSSIBLE SOLUTIONS FOR UKRAINIAN FORESTS

Liubov Poliakova, Senior officer of State Forest Resources Agency of Ukraine



IMPROVING CAPACITY OF FOREST IN CLIMATE CHANGE MITIGATION



- Enlarging forest area
- Strengthening forest protection against fires, pest and diseases
- Improving forest productivity and sustainability
- Strengthening forest protection against illegal logging

 introduction of state unified system of electronic
 timber tracking
- Promoting the use of biomass as alternative energy source - involvement of wood and its waste to Ukrainian energy balance



Besides of forest regeneration each year new

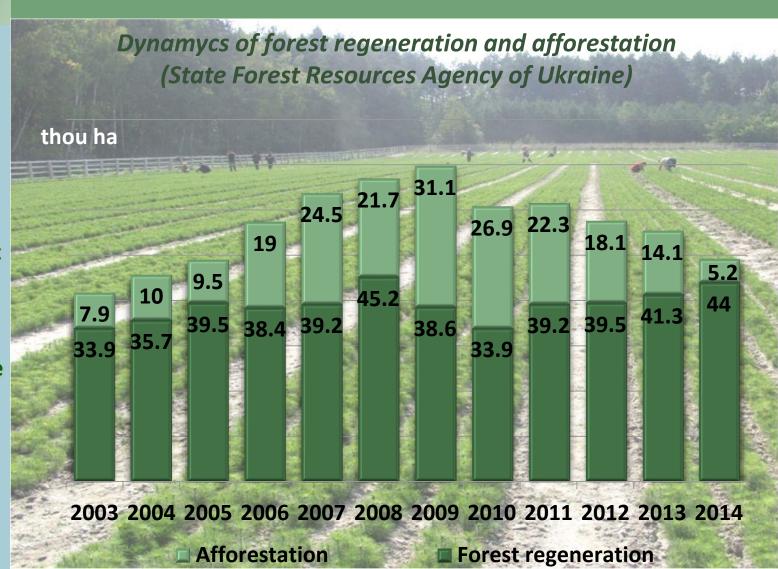
forests are

established.

For providing large-scale afforestation it is created sufficient facilities.

Thus forested area and its growing stock are constantly increasing in Ukraine

ENLARGING FOREST AREA

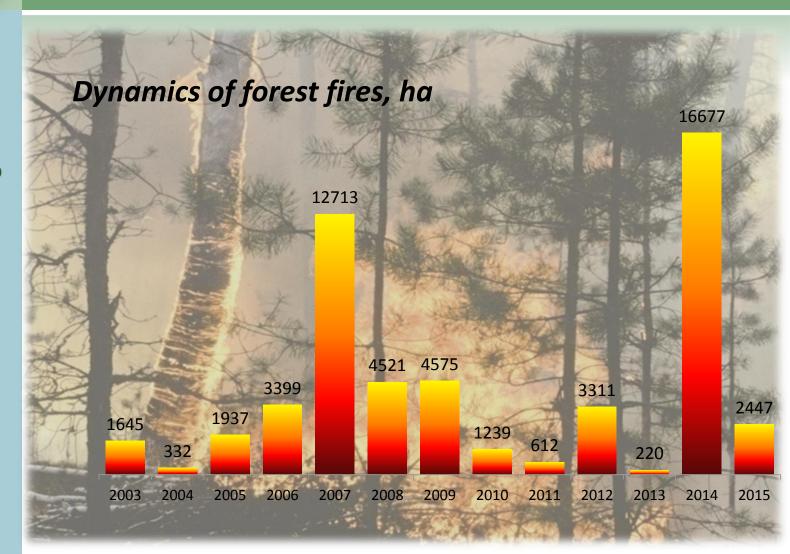




STRENGTHENING FOREST PROTECTION AGAINST FIRES, PEST AND DISEASES

In State Forest
Resources
Agency forests
there is created
network of 442
towers aimed to
observation of
forest area, 224
of them with
television
surveillance
system.

3,6 mio ha are covered by air patrol.





IMPROVING FOREST PRODUCTIVITY AND SUSTAINABILITY



- Rehabilitation of degraded forest stands
- © Reconstruction of secondary and low productive forests

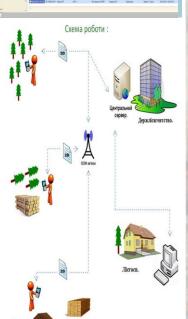
Additional carbon sequestration caused by forest stands after reconstruction may be about 0.5 t / ha / year.

- Introduction of modern harvesting technology
- More efficient utilization of harvested wood.



INTRODUCTION OF STATE UNIFIED SYSTEM OF ELECTRONIC TIMBER TRACKING





Since 2013 unified state system of electronic timber accounting is implemented.

The state system of electronic timber accounting provides:

- ✓ Individually labeled timber at harvest areas and depots.
- √ Automation of timber acceptance and inventory.
- ✓ Automation of preparation of primary documentation.
- ✓ Using methods of electronic inspection for the timber movement from harvesting to the final consumer or export for the customs border of Ukraine.

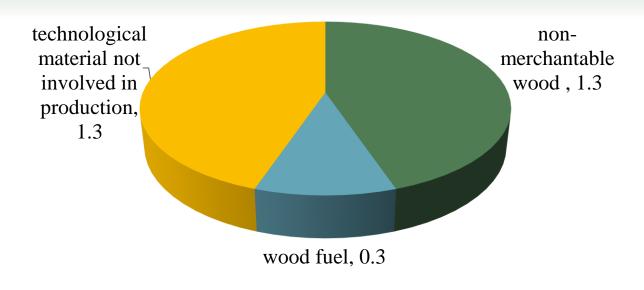
The system provides accurate accounting of forest resources in the online mode and is based on marking timber by special barcode tags and use of mobile electronic devices for accounting operations in forest conditions.



PROMOTING THE USE OF BIOMASS AS ALTERNATIVE ENERGY SOURCE

IMPROVING ENERGY EFFICIENCY AND REDUCING ENERGY CONSUMPTION

Wood resource for energy production, mio m3



In its calorific value available today wood energy resource potential can replace about 0.7 billion m3 of natural gas

For heat assistance of production and administrative offices state forest enterprises have 1.4 thou boilers that using solid biofuel for energy production Overall reduction in power consumption is 10% from

starting year.



IMPACT OF CLIMATE CHANGE



- Increased frequency of forest fires
- Increased frequency of pest and diseases outbreaks
- Decreasing productivity of forest stands

Changes of border of natural zones caused

- Objective
 Lowered level of ground water
- © Competition between native species and introducents



FOREST ADAPTATION TO CLIMATE CHANGE - PROBLEMS



- Necessity of capacity building



FOREST ADAPTATION TO CLIMATE CHANGE - SOLUTIONS



- To receive financial support for elaborating adaptation strategy for Ukrainian forestry to climate change:
 - Assessing vulnerability of forest in different natural zones
 - Improving methodology and normative base of forest management
- To conduct capacity building

