Natural & Working Lands Strategy Stakeholder Meeting:

Forests





Ground Rules

- Attendee microphones and cameras are off by default
- Questions or comments can be typed into the chat at any time
- Please limit your input to topics we are discussing today
- After each land type, we will address some questions from the chat and there will be time to raise your hand and speak – we will enable your microphone when you are called on
- All input will be considered, but there will not be a response to comments document
- If you are unable to comment today, please use the comment form at https://www.nj.gov/dep/climatechange/mitigation/nwls.html

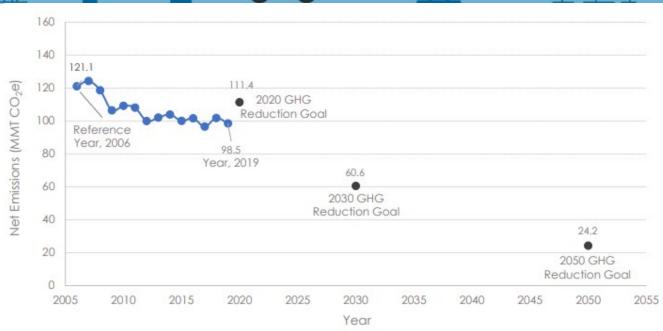
Agenda

- Introduction Heather Genievich
- Background Tony Rho
- NWLS Overview Metthea Yepsen
- Timeline- Metthea
- How recommendations were developed Metthea
- Overview of how forests sequester carbon Lauren Siclare
- Major components of the strategy for forests Lauren Siclare
- · Questions for attendees Heather
- Input from attendees Heather and Lauren
- Reminder of timeline and ways to send comments Heather

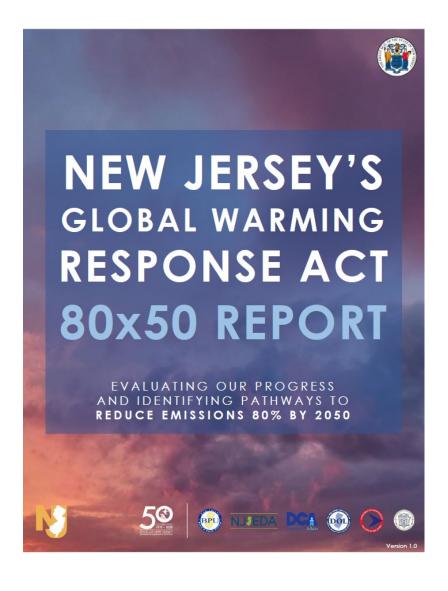




Greenhouse Gas Reduction Goals



New Jersey's 80x50 Report

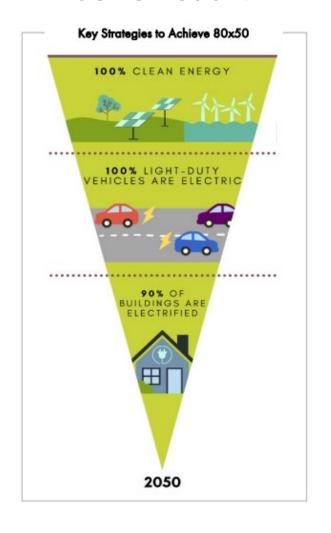


 Seven emission sectors are evaluated to determine how to achieve the 80x50 Goal.

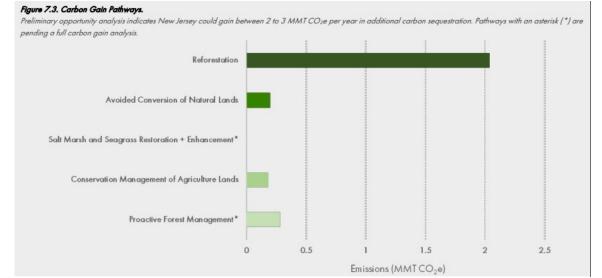
- Each Sector Includes:
 - Business-as-Usual Projection.
 - Emissions Reduction Pathway Projections.
 - Specific legislative and administrative recommendations for achieving emissions reductions.
- Four electric demand scenarios are evaluated based on various levels of electrification throughout the state.

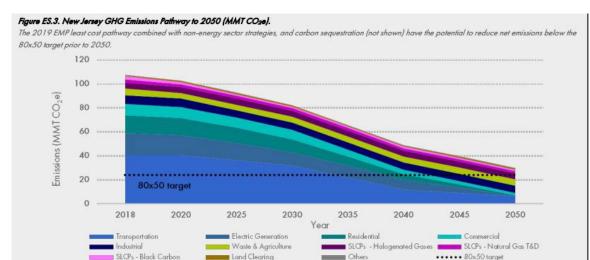
NJ Greenhouse Gas Reduction Pathways

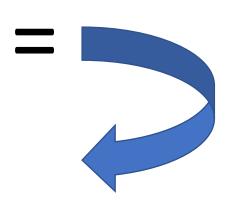
CO2e Redux:



CO2e Gains:



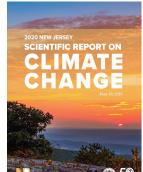




NJ needs CO2 sequestration through NWL to meet state 2050 goals!

A Collaborative Call to Action

Scientific Report on Climate Change



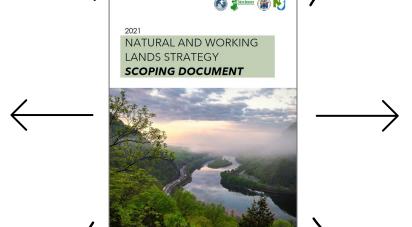


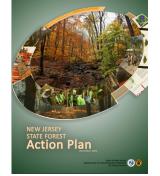


GWRA 80x50 Report

New Jersey Wetland Program Plan



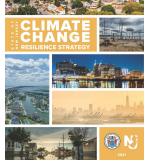




New Jersey Forest Action Plan







Climate Change Resilience Strategy

RGGI Strategic Funding Plan

Carbon Sequestration Basics

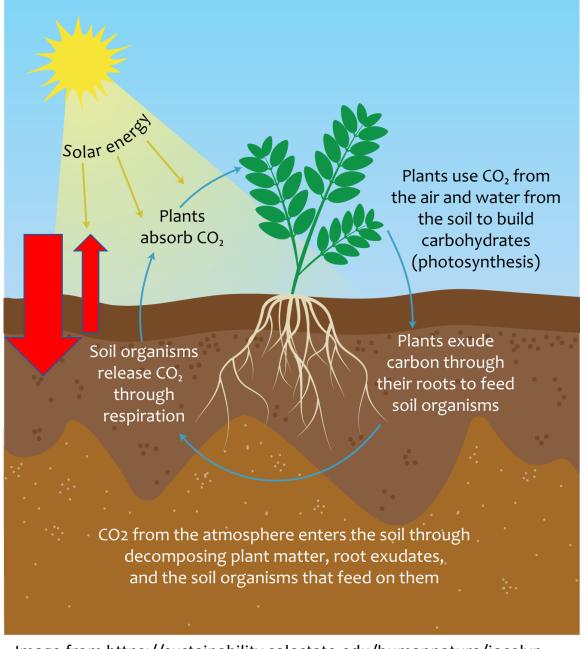


Image from https://sustainability.colostate.edu/humannature/jocelyn-lavallee/

Land Types in the NWLS



Forests

Agriculture

Wetlands

Developed Lands

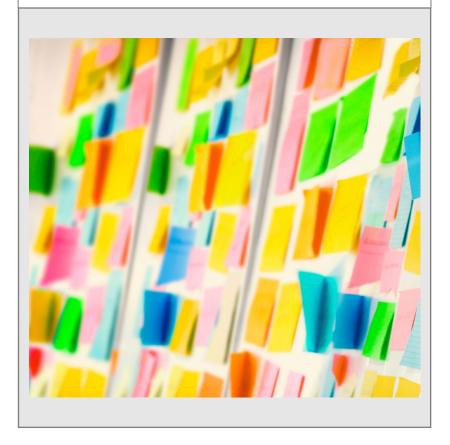
Aquatic Habitats

Milestones **NWLS Kickoff** Work on the strategy began in May 2021 **Scoping Document** Recommendation and Target Scoping Document was released **December 2021** Development Stakeholdering Four stakeholder meetings are set for the second half of March 2023

Final Strategy

Release final strategy in third quarter of 2023

How was the strategy developed?



- Reviewed other NWLS
- Honed the list for NJ
- Modeling and literature searches:
 - Carbon benefit
 - Cost
 - Scalability
- Recommendation selection
 - Who, what, where, when, why, how
 - Impediments
 - Environmental justice
 - Climate change
 - Other benefits to the ecosystem and people
- Targets
 - 2030 and 2050

Our questions for you:

- 1. What is missing from our draft list of targets?
- 2. Are there any targets that do not belong on these lists?
- 3. What are key obstacles to achieving these targets?
- 4. What financing mechanisms are available?



Forests

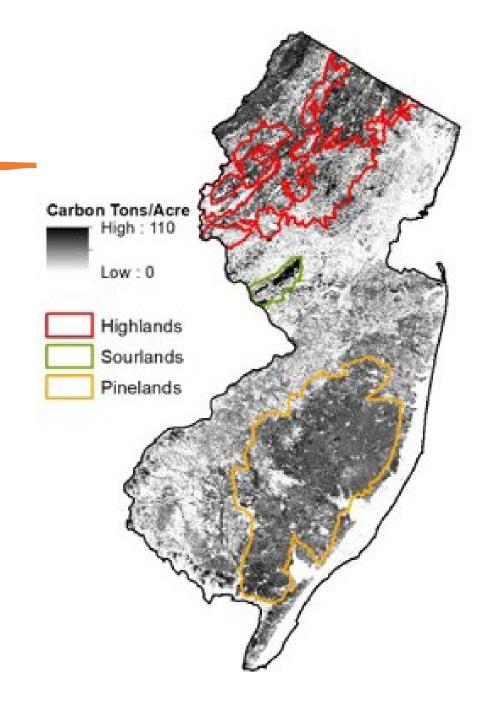
- There are an estimated 1.9 million acres of forest land in NJ
 - NJ is ~ 40% Forested
 - Federal 6%
 - State 33%
 - County/Municipal 15%
 - Private 46%



Figure 2. - Distribution of forest land, New Jersey, 2009.

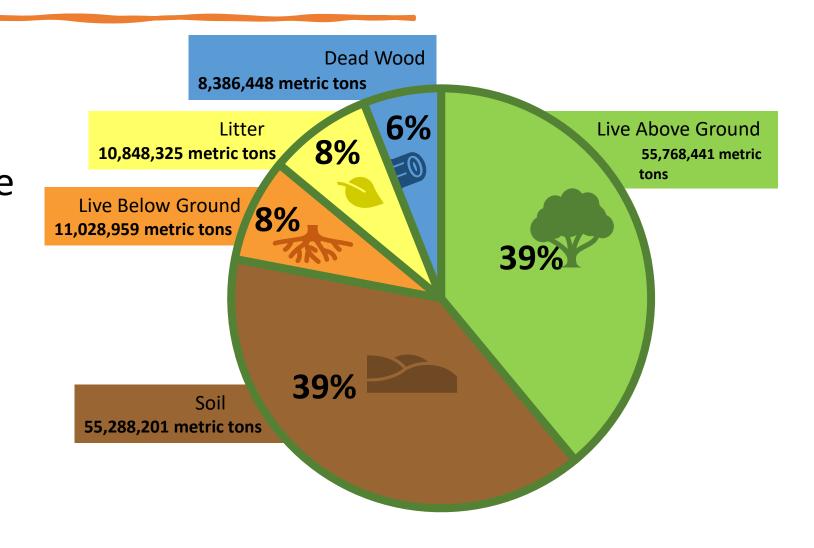
Forests

NJ forests store about 1.41 MMT CO₂



Forests

Our forests have 5 different carbon pools, which include: live above ground, live below ground, dead wood, litter, and soil.



Recommendation Type	Target	2030	2050
	Identify & Plant non-forested land to a forested condition	1,600 ac (200 ac/yr)	4,000 ac (200 ac/yr)
Affa wa atati a w	Select appropriate species for planting	X	X
Afforestation	Land Management Review for suitable sites	Maintain	Maintain
	Creation of afforestation Best Management Practices	X	X
	Afforest state-owned golf courses/bogs/etc.	-	Х
	Minimize conversion of forested lands to non-forest uses	Maintain (4,000 ac/yr)	Reduce (2,000 ac/yr)
Avoided Conversion	Private Landowner enrollment in forest stewardship	Increase by	All properties
	program	115 prop/yr	enrolled
	Increase acreage of land purchased by Green Acres	-	X
Avoided Emissions	Thin forests to reduce stress/competition	1,500 ac/yr	1,500 ac/yr
Avoided Emissions	Prescribed Burning to reduce fuel loads	25,000 ac/yr	25,000 ac/yr

Recommendation Type	Target	2030	2050
	Forest Inventory and Analysis (FIA) Inventory Agreement	Include Phase 3 plots	Include Phase 3 plots
	Creation of a Forest Management Optimization Model	Complete	-
	Review current forestry contracts	Х	-
Improved Forest Management	Provide 10 years of predictive forest management implementation opportunities consistent with the New Jersey State Forest Action Plan	Х	Х
	Plan ecological forest management	100,000 ac	200,000 ac
	Complete DTSP Natural Resource Stewardship Plan	2,700 ac	-
	Inventory state forest lands	40,000 ac/yr	40,000 ac/yr
Reforestation	Assess regeneration status of forest lands that have been affected by wildfires or damage causing agents	Annually	Annually
	Survey state lands & identify areas where ecosystem function is disrupted	Annually	Annually
	Prioritize sites for reforestation actions	10 sites	40 sites
	Identify & restore degraded forests	800 ac	2,000 ac

Recommendation Type	Target	2030	2050
Nurturing Forests with the	Increase nursery production to annually service more municipalities & private landowners	20% increase	20% increase
NJ Forest Service Nursery	Nursery Planning & Improvement (Diversify/Propogate Rare, Plant Climate-Resilient, Produce Insect and Pathogen-resistant, & Restore Native)	X	Х
Outreach and education focused on educating NJ	Improve forest management outreach, programming, and curriculum at State facilities, and add 10 NJ Forest Service-led forest management programs annually	X	Х
citizens and landowners on the value of forests	Increase geographical reach of forestry programs	X	Х
and forest management	Webpage on DEP website dedicated to carbon, climate & forest management	X	Х

Recommendation Type	Target	2030	2050
	Include importance of active forest management in all carbon sequestration messaging to the public	X	Х
Outreach and	Public events that focus on forest & forest management	4/year	6/year
education focused on educating NJ	Meetings with internal stakeholders to expand opportunities for outreach & education	Quarterly	Quarterly
citizens and landowners on the	Utilize and enhance State facilities & partner with other DEP programs to enhance NJFS outreach & education	X	Х
value of forests and	Develop & implement a NJFS Interpretive Plan	X	Х
forest management	Engage a wider audience by embracing technological advances and installing kiosks throughout state with forest management information	X	Х
	Establish a forestry cooperative with the state's land grant institution	-	Х

Recommendation Type	Target	2030	2050
	Annually, 10 new municipality management plans, 10 new/updated inventory grants, & CORE train 100 participating individuals	X	X
Promote urban	Continue to provide annual grants for tree planting & resiliency planning / ensure compliance from participants	Х	Х
forests and street trees through	Urban FIA Inventory Agreement	Maintain	Maintain
stewardship in order to maintain and grow the current carbon resource in urban communities	Implement a state-wide inventory program so that data collection amongst municipalities is consistent	Х	-
	Revisit No Net Loss Program & capacity to hire full-time employees	X	-
	Enroll all municipalities in Urban Stewardship programs by 20 years	-	X
	Increase the participation of Overburdened Communities in regard to tree planting, training/education, planning, managing and/or inventory	50 municipalities	100 municipalities

Recommendation Type	Target	2030	2050
	Revisit IMPLAN study to review wood products being brought into the state their uses	X	-
Maintain and increase carbon	Maintain & update the list of Forest Industry Professionals working & running their businesses using local NJ forest products	X	-
storage through durable forest	Maintain working relationship with external organizations that support local forest products	X	-
products sourced from local forests	Support & collaborate with businesses that are interested in starting niche forest product markets in NJ	-	Х
	Improve consumer awareness of the "New Jersey Grown" agricultural designations for wood products to help combat carbon leakage	-	Х

Draft Targets for Forests – Policy Recommendations

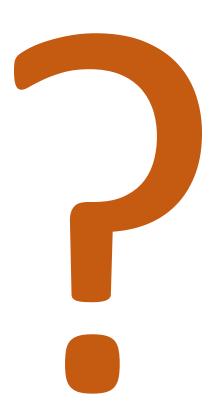
Recommendation Type	Target	2030	2050
	Urban and Community Forestry grants program for urban planting & maintenance	Expand	-
A (()	Private lands incentive programs for afforestation projects	Maintain	Maintain
Afforestation	Coordinate with NJDEP Fish & Wildlife for opportunities with Connecting Habitat Across New Jersey (CHANJ)	Х	Х
	Incentivize Green Acres/Ag to afforest their properties where appropriate	-	Х
Avoided	Enroll state forest land into a carbon market	75,000 ac	dependent on market
Conversion	Establish carbon markets for private lands in NJ	Х	-
Reforestation	Encourage reforestation on Private Lands	Annually	Annually

Draft Targets for Forests – Policy Recommendations

Recommendation Type	Target	2030	2050
Support programs that provide incentives to	Continue the trend of about 115 additional properties per year utilizing improved forest management	X	-
landowners for	Provide cost share to properties using Regional Greenhouse Gas Initiative	100 properties /	500 properties /
improved forest	funding for improved forest management	year	year
management	All properties eligible for programs be enrolled	-	x
Maintain and increase carbon storage through durable forest products sourced from local forests	Incentivize/ Subsidize keeping harvested wood out of landfills in state contracting	Incentivize	Subsidize
	Explore updating building codes to accommodate & incentivize the use of emerging carbon-positive construction materials such as mass timber over the use of concrete & steel which have significantly larger associated carbon footprints	-	X
	Incentivize the creation of forest products	-	x
	Encourage wood utilization by supporting the creation of a NJ state chapter of the Urban Wood Network	Х	-

Our questions for you:

- 1. What is missing from our draft list of targets?
- 2. Are there any targets that do not belong on these lists?
- 3. What are key obstacles to achieving these targets?
- 4. What financing mechanisms are available?

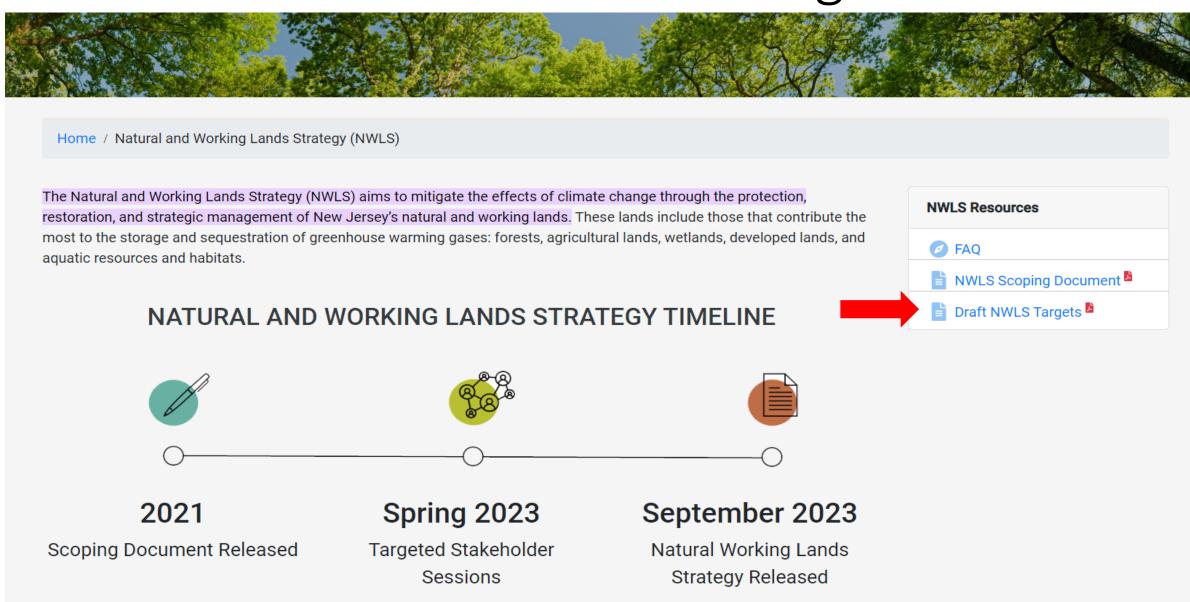


What's next?

- ☐ Virtual stakeholder meetings from 2-4 pm
 - March 21 developed land
 - March 23 agriculture
 - March 28 forests
- ☐ Comments on all draft targets are due April 14
- ☐ Final strategy to be released in 2023 Q3

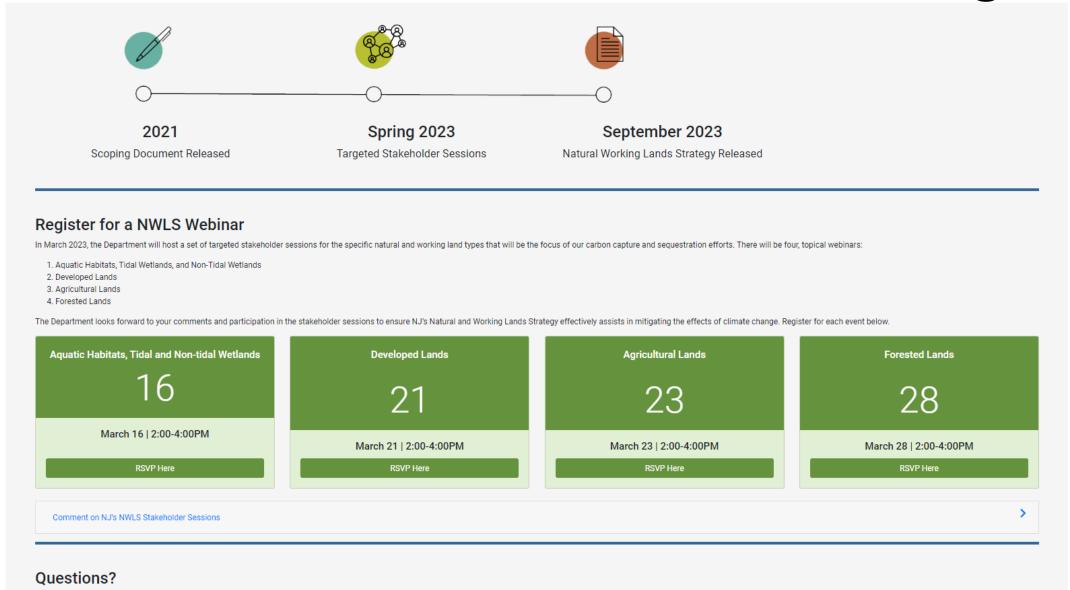
https://www.nj.gov/dep/climatechange/mitigation/nwls.html

To review the list of targets:



https://www.nj.gov/dep/climatechange/mitigation/nwls.html

To submit comments after the meeting:



https://www.nj.gov/dep/climatechange/mitigation/nwls.html

