

# Tree and Shrub Planting Report

## Baldwin Wind Energy Center

Prepared for:

**NEXTERA ENERGY RESOURCES**  
Baldwin Wind, LLC  
ND PSC Case Number: PU-09-668 (Wind Farm)

Prepared by:

**WENCK ASSOCIATES, INC.**  
301 1<sup>st</sup> Street NE  
Suite 202  
Mandan, ND 58554  
(701) 751-3370  
**Wenck File #2602-05**

On Behalf of:

**TETRA TECH EC, INC**  
160 Federal Street  
3<sup>rd</sup> Floor  
Boston, MA 02110  
(617) 443-7500

October 2011

---

# Table of Contents

---

**1.0 INTRODUCTION & BACKGROUND..... 1-1**

**2.0 PLANTING RECORD..... 2-1**

**TABLES**

Table 1. Planting Records by Landowner and Location..... 2-2

**APPENDICES**

A Example Photos of Tree Plantings

---

# **1.0 Introduction & Background**

---

The Baldwin Wind Energy Center (Project) was completed in 2010 in Burleigh County, North Dakota, within portions of Township 143N, Range 79W, Township 142N, Range 80W, and Township 142N, Range 79W. The Project is operated by Baldwin Wind, LLC (Baldwin Wind), a subsidiary of NextEra Energy Resources, LLC, and comprises a 102-megawatt (MW) wind generation plant. The Project is under the jurisdiction of the North Dakota Public Service Commission (PSC). Its construction required the removal of trees and shrubs within Project rights-of-way.

The PSC approved a Tree and Shrub Replacement Plan for this project in 2011. This report documents the number, species, location and date of planting for the trees and shrubs planted in 2011 for this Project. Please refer to the Tree and Shrub Mitigation Plan for other background details.

Baldwin Wind retained Tetra Tech EC, Inc. (Tetra Tech) and Wenck Associates, Inc. (Wenck) to assist in field checks and documentation of the planting.

---

## 2.0 Planting Record

---

The total number of trees and shrubs removed for the Project was 206; the total number to be replaced is 412 based on the 2:1 replacement requirement. At the end of three years, 75% of these planted trees, or 309, will be required to have survived to meet the obligations of the PSC.

Six landowners within the Project area requested replacement on their property. Tree and shrub choices and planting locations were coordinated with Prairie View Landscaping and Nursery in Baldwin, North Dakota and are described in detail in the Tree and Shrub Replacement Plan for the Project.

The plantings for all landowners were installed early June 2011 in Sections 17 and 32, Township 143N, Range 79W and Sections 18, 22, 28, and 32, Township 142N, Range 79W by Prairie View Landscaping and Nursery (**Table 1**). Weed barrier fabric was installed if desired by the landowner. Trees were 2-year-old saplings (8-15" size), unless special arrangements were made with the landowner. A total of 533 trees were planted.

**Table 1. Planting Records by Landowner and Location**

Landowner	Number of Replacement Trees Planted	Tree/Shrub Species Planted	Date Planted	Photo References (App. A)	Weed Fabric (ft)	Location
John Spitzer	36	Cottonwood	6/6/11 – 6/8/11, 6/10/11	1-3	85	T142N, R79W, Section 32, NW ¼, bordered by 41 <sup>st</sup> St NE and 253 <sup>rd</sup> Ave NE. Planted along the perimeter of the property. Species were mixed per owner's request. Spruce were mulched and staked.
	36	Willow			85.5	
	36	Spruce			0	
Jeffrey & Robyn Spitzer	50	Seedless Cottonwood	6/9/11	4-5	0	T142N, R79W, Section 18, SE ¼, bordered by 279 <sup>th</sup> Ave NE and 41 <sup>st</sup> St NE. Planted along the creek up to dam in the SE corner of the section.
Robert Anderson	200	Eastern Red Cedar	6/10/11, 6/13/11	6	3100	T142N, R79W, Section 22, W ½. East of 66 <sup>th</sup> St NE, north of the house.
	30	Eastern Red Cedar			160	Two locations. One is in T142N, R79W, Section 21, NE ¼, planted on the tower road bordered by 279 <sup>th</sup> Ave NE and 66 <sup>th</sup> St NE. Other location is in T142N, R79W, Section 28, NW ¼, planted by the driveway to the farmstead, bordered by 266 <sup>th</sup> Ave NE and 52 <sup>nd</sup> St NE. Driveway is on east side of the quarter section off 52 <sup>nd</sup> St NE.
Gene & Vivian Hilken	45	Spruce	6/9/11	7-9	240	
Nathan Speten	50	Spruce	6/16/11	10	550	T143N, R79W, Section 32, NE ¼ of NE ¼, bordered by 331 <sup>st</sup> Ave NE and 52 <sup>nd</sup> St NE. Planted west of and parallel to the driveway of the property.
Theodore Adamyk	50	Ponderosa Pine	6/13/11	11-12	500	T143N, R79W, Section 27, SW ¼, bordered by 331 <sup>st</sup> Ave NE and 66 <sup>th</sup> St NE. Planted north and south of house.
<b>TOTAL</b>	<b>533</b>					

---

## **Appendix A**

---

### **Example Photos of Tree Plantings**

**Case No. PU-09-668**



**Photo 1.** John Spitzer planting. Close-up of 5-6' spruce sapling stabilized with stakes with mulch applied at base.



**Photo 2.** John Spitzer planting. Row of 5-6' spruce saplings.



**Photo 3.** John Spitzer planting. Close-up of 5-6' willow sapling with weed fabric and tree tube applied.



**Photo 4.** Jeff Spitzer planting. White tree tubes along creek indicate cottonwood plantings.



**Photo 5.** Jeff Spitzer planting. Close-up of 5-6' cottonwood saplings.



**Photo 6.** Robert Anderson planting. Row of 8-15" eastern red cedar seedlings with weed fabric applied.



**Photo 7.** Gene Hilken planting. Row of 12-15" spruce seedlings.



**Photo 8.** Gene Hilken planting. Spruce seedlings along driveway.



**Photo 9.** Gene Hilken planting. Short row of 8-15" eastern red cedar seedlings.



**Photo 10.** Nathan Speten planting. Row of 12-15" spruce seedlings bordering driveway.



**Photo 11.** Ted Adamyk planting. Several rows of 12-15” ponderosa pine seedlings at farmstead.



**Photo 12.** Ted Adamyk planting. Several more rows of 12-15” ponderosa pine seedlings.