



# **AGENDA**

- Headwaters Wind Farm Overview
- Habitat Conservation Plan Timeline
- Lessons Learned







# **Headwaters Wind Farm**

Project and HCP Overview

# INDIANA: Headwaters



Headwaters Wind Farm is located 70 miles east of Indianapolis along the Ohio border. Located entirely in Randolph County, the wind farm complements the area's sprawling corn and soybean fields, providing local farmers with a stable, drought-resistant cash crop in the form of landowner lease payments. Headwaters II Wind Farm is expected to be operational in 2020.

#### **Project Basics**

Location: Randolph County, IN

Capacity: 200 MW

Turbines: 100 turbines, Vestas V110

Commercial Operation: Dec 2014





# **Headwaters Wind Farm**

Project and HCP Overview

#### **HCP Basics**:

#### **Minimization**

- Spring (April 1 May 15) 3.5 m/s
- Summer (May 16 July 31) 10 turbines at 5.0 m/s, remainder feathering below cut-in speed
- Fall (August 1 October 15) 5.0 m/s

#### Mitigation

- Amount based on Resource Equivalency Analysis (REA) model
- 10% stacking discount
- Cover 100% upfront

#### Monitoring

- First 3 years then every 6th year
- Design monitoring plan using Evidence of Absence, g = 0.25

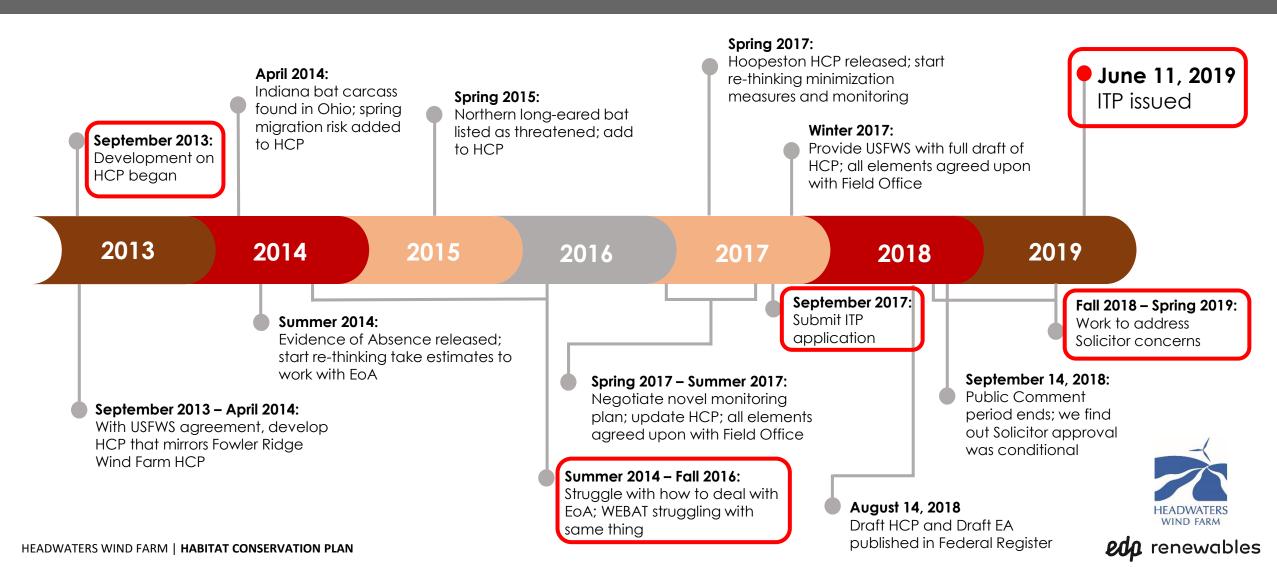


<sup>\*</sup>All from ½ hour before sunset to ½ hour after sunrise when temperatures are over 50F\*



## **Habitat Conservation Plan**

Timeline





#1 Communication with USFWS early and often



Have kick-off call(s) with USFWS Field Office to establish working relationship

For example:

Present expected schedule...

... and know it will probably change

Set up regular calls (bi-weekly worked well for us)

Agree on Habitat Conservation Plan major items

For example: minimization

Provide HCP to USFWS for review in chunks

Some sections aren't contentious Some sections require a lot of USFWS review and feedback

 Still working on how to engage USFWS Regional Office and Solicitor earlier/more effectively (see lesson #5)



#2 Everything will take way longer than anticipated

Important to have a schedule to keep Applicant and USFWS on task...

... but Applicant can't control all timelines



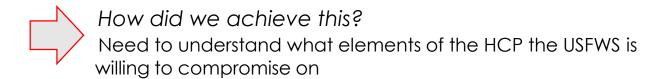
#### Efforts to keep schedule on track:

- 1) Agree on review timelines (typically 30-45 days)
- 2) As the Applicant, set the example and be responsive, stick to timelines
- 3) Present/discuss novel ideas prior to presenting in HCP
- 4) COMMUNICATION!



#3 Think outside the box

- Things change through the development of an HCP that can increase the cost of the HCP or extend timelines
- Our Successes Monitoring plan and using Evidence of Absence to predict take



Be prepared to "bring a lot of rocks"





#4 Devil is in the details



- Major elements (minimization, adaptive management, monitoring, etc.) mostly agreed upon early in the process for Headwaters
- Process got held up with smaller items, for example:
  - Mitigation how much detail to provide, timeline to implement after receipt of ITP
  - o Funding assurances amount how much detail to provide
  - Funding assurances mechanism what type, duration to put in place after receipt of ITP
  - Changed circumstances how much detail to provide
- Concerns came from Regional Office and/or Solicitor



#5 Solicitor/Regional Review



- Still working on this...
- We did not work with Region/Solicitor until HCP was "finalized" with Field Office
  - o For other HCPS, we are trying to work with Region/Solicitor earlier in the process
- Underestimated number of comments from Solicitor- comments not all of a legal nature
- Elevating issues and lawyer-to-Solicitor conversations very important



# **Contact Information**





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# Questions? edp renewables

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