

MULTI-PHASE STUDY COSTS	Average	Range	Assumptions, Notes and Comments
Based on Wind Energy Guidance Implementation Update: 8/27/2014			
Assumptions: Pre-Construction Site Size Post-Construction Site Size		Assumptions: 20,000 Acres 100 Megawatts	
<b>Tier 1 - Multiple Site Desktop Screening</b>	Agroecol. Average	Low End	High End
TOTAL COST (Regional context)	\$6,500	\$3,000	\$8,000
<b>Tier 2 - Single Site Characterization w/ Site Visit</b>			
TOTAL PROJECT COST	\$25,000	\$5,000	\$45,000
<b>Tier 3 - Pre-construction/Assessing Wildlife Studies</b>			
Protocol Development, Agency Meetings	\$14,500	\$4,000	\$25,000
Habitat Mapping	\$37,500	\$15,000	\$80,000
Avian Use Study (Spring 15 Mar - 31 May)	\$25,000	\$5,000	\$65,000
Avian Use Study (Summer 1 Jun - 31 Aug)	\$42,500	\$20,000	\$85,000
Avian Use Study (Fall 1 Sep - 15 Nov)	\$42,500	\$20,000	\$85,000
Avian Use Study (Winter 16 Nov - 14 Mar)	\$50,000	\$25,000	\$75,000
Raptor Migration Survey - One Season	\$22,500	\$15,000	\$30,000
Raptor Nest Surveys - Spring (April - June 08)	\$25,750	\$1,500	\$50,000
Eight specific surveys	\$10,000	\$5,000	\$15,000
	\$87,500	\$75,000	\$100,000
	\$200,000	\$250,000	\$250,000
	\$45,000	\$10,000	\$10,000
	\$12,500	\$10,000	\$15,000
Breeding Bird Density Surveys - May 15 - June 15	\$33,000	\$10,000	\$50,000
Nocturnal Avian Acoustic Surveys	\$47,500	\$10,000	\$85,000
NEKXAD Surveys	\$30,000	\$15,000	\$45,000
Bat Use Acoustic Study	\$74,500	\$25,000	\$124,000
Arboreal Surveys - Summer (15 July - 15 Oct 08)			
Nocturnal Vesperal Radar Surveys - One Season	\$135,000	\$70,000	\$200,000
Bat Marking - One or Two Sites	\$32,500	\$25,000	\$80,000
Hibernaculum Surveys	\$27,500	\$30,000	\$35,000

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0.15x = AWEA estimate non-hour burden per response

STUDY COSTS NOT A LINEAR RELATIONSHIP WITH PROJECT SIZE DUE TO START UP, BASIC TRAVEL COSTS, AND TIME FOR DATA ANALYSIS & REPORTING

Tier 4 - Post-construction Mortality Studies for 1 Year

Optional scope of work: used only when deemed appropriate, informed by acoustic surveys or unique circumstances

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Revised estimates - Based on TAILS data and public comment

ACTIVITY (Reporting and recordkeeping)	NUMBER OF RESPONDENTS	NUMBER OF RESPONSES	FMS ESTIMATE # OF RESPONSES	COMPLETION TIME PER RESPONSE	AWEA ESTIMATE TIME PER RESPONSE	TOTAL ANNUAL BURDEN HOURS	AWEA ESTIMATE TOTAL BURDEN HOURS	BURDEN HRS * 57.57	NONHOUR BURDEN COST PER RESPONSE	AWEA ESTIMATE PER RESPONSE	TOTAL ANNUAL NONHOUR BURDEN COST	AWEA ESTIMATE TOTAL NONHOUR BURDEN COST
Tier 1 (Desktop Analysis)	150	150	40	83	81	12,450	3,240	186,527	\$2,000	\$825	\$300,000	\$33,000
Tier 2 (Site Characterization)	110	110	35	375	369	41,250	12,915	743,517	\$4,000	\$3,750	\$440,000	\$131,250
Tier 3 (Pre-construction studies)	80	80	30	2,890	14,695	230,400	440,850	25,379,735	\$23,000	\$148,288	\$1,840,000	\$4,478,640
Tier 4 (Post-construction fatality monitoring and habitat studies)	50	50	45	2,550	4,023	127,500	181,035	10,422,185	\$95,000	\$40,875	\$4,750,000	\$1,839,375
Tier 5 (Other post-construction studies)	10	10	10	2,400	6,399	24,000	69,390	3,994,782	\$191,000	\$70,500	\$1,910,000	\$705,000
<b>TOTALS</b>	<b>400</b>	<b>400</b>	<b>160</b>	<b>160</b>	<b>160</b>	<b>435,600</b>	<b>707,430</b>	<b>40,726,745</b>	<b>191,000</b>	<b>70,500</b>	<b>\$9,240,000</b>	<b>\$7,187,265</b>

Review estimates (2012 approval)

Previous  
 $X = 0.15X$   
 $57.57$

Time per response  
 $\times$   
 # of responses

Previous  
 $0.15X$   
 Previous

Nonhour burden  
 $\times$   
 # of responses