

The American Wind Wildlife Institute

- *Coming to Life* -

A Summary for the
Wind Turbine Guidelines Advisory Committee
Technical Workshop and Federal Advisory
Committee Meeting

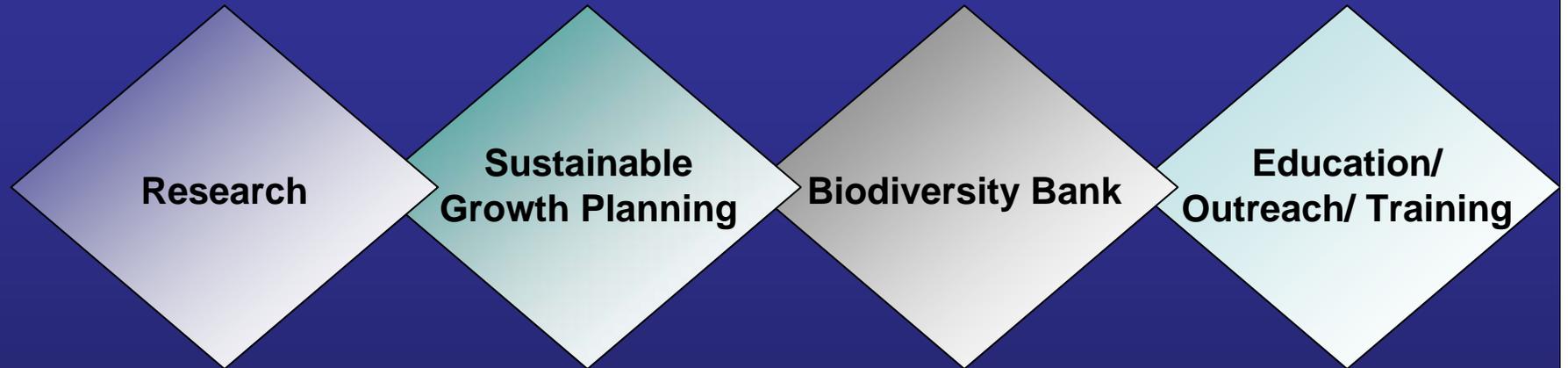
Wayne Walker
Principal
Wayne Walker Conservation Consulting LLC

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Department of the Interior
Washington DC

AWWI Mission Statement

Create a widely respected institution, with shared industry/NGO governance, funded from industry and non-industry sources, that serves as a vehicle for programs to achieve wind/wildlife goals more cost-effectively, more expeditiously and with better results - both actual and perceived - than industry members can achieve independently.

AWWI Program Categories



Prioritize & fund urgent research needs

Data repository

Highest academic standards

Find low risk areas

Coordinate existing mapping efforts

Guide application of GIS data

Seek local benefits for local impacts

Cost effective and beneficial mitigation

Science-based criteria

Put impacts in perspective

Inform public and decision makers

Training/quality control



Progress Made Since Late 2007

- Corporate entity formed
 - Bank account
 - Articles & Bylaws – to be refined by Founders
- Seed funding commitments from Founders up to \$2.3M
- Funding received from BP (\$400k '08)
 - Consulting contracts for part time “launch director,” support staff
- Scoping meetings in process for 4 program initiatives
 - 15 Jan 08 – Boulder CO: hopes and fears for use of GIS data in wind siting
 - 25 Jan 08 – San Francisco CA: state of the art mitigation techniques & financing
 - February/March/April – Education & Outreach
 - March/April – Summarize Existing Research Needs

Founders Pledges	2008	2009	Total
BP Alternative	\$400,000	\$100,000	\$500,000
Horizon Wind Energy/EDP	\$100,000	\$100,000	\$200,000
Nordic Windpower	\$100,000	\$100,000	\$200,000
AES Wind Energy	\$100,000	\$100,000	\$200,000
RES America	\$100,000	\$100,000	\$200,000
Vestas Americas	\$100,000	\$100,000	\$200,000
Babcock & Brown	\$100,000	\$100,000	\$200,000
Iberdrola/PPM	\$100,000	\$100,000	\$200,000
NRG Systems, Inc.	\$100,000	\$100,000	\$200,000
GE Wind Energy	\$100,000	\$100,000	\$200,000
Totals to date (13 Feb 08)	\$1,300,000	\$1,000,000	\$2,300,000

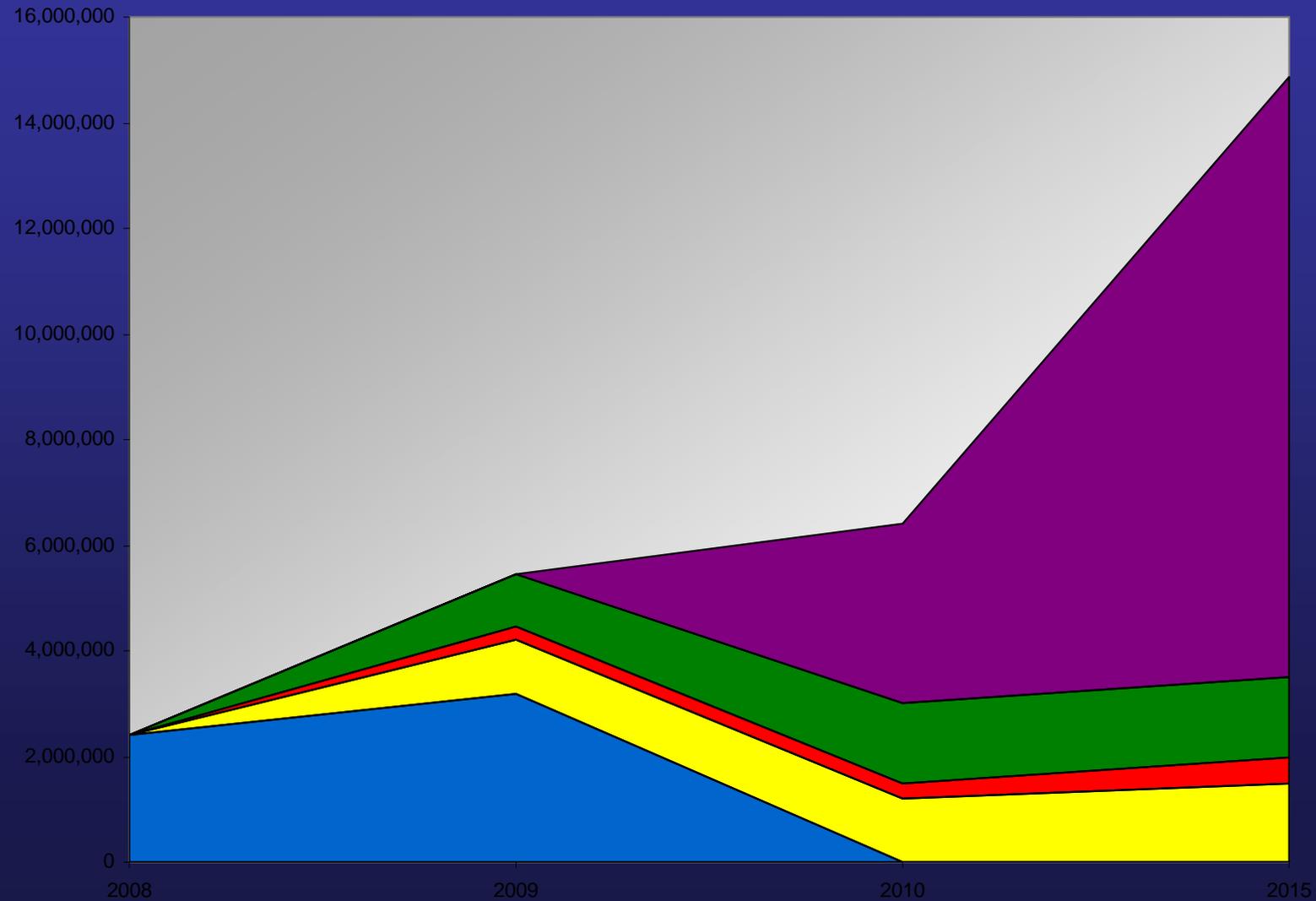
Next Steps in AWWI Launch Process

- Funding
 - Finalize Founding Member Roster
 - Industry: Early March
 - NGO's: Spring
- Organization and Governance
 - Complete 501 c 3 application
 - Refine Bylaws, BoD structure at Spring “Founders Meeting”
- Program Planning
 - Prioritize projects that can provide value during 2 year start up period.

Sustainable Funding

- Subject to AWWI Board approval – kicks in after 2 year seed funding period
- Plant Owner/Operators
 - \$1000/MW payable at COD (<0.04% of Capital Cost)
 - 3 days of Euro/Dollar change in turbine prices since 2006
 - \$100/MW years 6-20
 - Example: 200 MW Project
 - \$500k over project life
 - Less than 2 basis points impact on IRR
- Construction, Service and Equipment Suppliers
 - 0.0005 (.1/20th of 1%) of gross annual sales
 - Example: \$100M Gross Sales = \$50,000 annual contribution
 - Less than developers since the latter pick the sites

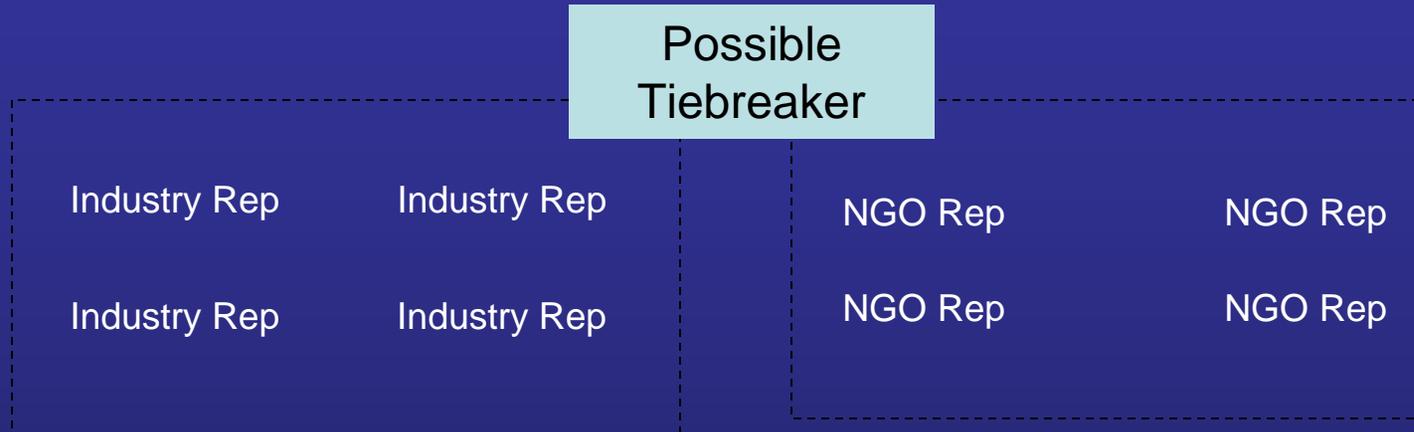
Preliminary Budget



■ Founder seed funding ■ Federal contributions ■ NGOs ■ Foundation ■ Sustainable per MW

Note: Budget does not include construction service/turbine supplier contributions

Suggestion for Board of Directors



Chosen by Industry Advisory Committee (first members those providing seed funding)

Chosen by NGO Advisory Committee (first target members are those already involved and commit resources to AWWI)

Board members responsible for fundraising and outreach to new organizations; evolve to take over Board member replacement via supermajority (i.e. 5-3)

Governance Issues

- Scientific Advisory Group to determine projects supported – using technical experts for peer review concept (working well for Grassland/Shrub-Steppe Species Collaborative)
- Governance questions heard:
 - How do you ensure excellence?
 - How do you avoid legal pitfalls (e.g., anti trust)?
 - How do you run the organization in a financially-sound manner?
 - How do you handle independence versus control?
 - Being proactive vs. starting down slippery slopes?
 - Public Information protocols (e.g., National Academy)

Targeting Early Results

- Research:
 - Accelerating 1-2 top industry priorities
 - White paper on comparison of wind to alternatives
 - Methods for bringing more industry data into scientific databases
- Sustainable Growth Planning
 - Scientific and policy review of proper and improper uses of GIS mapping methods; potential for using Geoweb & local sourcing
 - Cooperation with Audubon proposal to Google
- Mitigation
 - Survey of state of the art in cost effective habitat conservation; possible high leverage roles for AWWI
- Public Education, Outreach and Training
 - Prioritization of training requirements for 20% vision (utility planners and operators? Permit processors? Wildlife biologists? Etc.)
 - Identifying feasible options to broaden opportunities for local investment to compensate for local impacts

Anticipated Benefits

- This is a high leverage capital investment in minimizing long-term risk to and from rapid growth of the industry
- Build up the intellectual capital to get ahead of wildlife issues (and the next surprise)
- Establish “broad band” communication with NGOs
- Without this it will be difficult if not impossible to get to 20%
- Time to do it is before the train wreck, not after (e.g. transmission siting)
- Industry today lacks a credible, scientifically deep entity able to get at the truth and get the word out about wind vs the alternatives