

## **APPENDICES**

## **Appendix A – Pre-Scoping Materials**



October 05, 2010 02:05 PM Eastern Time

## Transformative 49.9 MW Solar Array to be Developed on Reclaimed Ohio Strip Mine; Spain's Leading Solar Manufacturers to Build Ohio Production Facilities

*Gov. Strickland, American Electric Power CEO, Turning Point Solar and Others Sign Memoranda to Create \$250 Million Solar Farm*

COLUMBUS, Ohio--([BUSINESS WIRE](#))--Ohio Governor Ted Strickland today announced agreements to create Turning Point Solar, a 49.9 MW solar array to be built on strip-mined land adjacent to The Wilds nature conservancy. At signing ceremonies in Governor Strickland's cabinet room, American Electric Power (AEP) CEO Michael G. Morris signed a memorandum of understanding with project developers New Harvest Ventures and Agile Energy to enter into a 20-year purchase agreement for the facility's power.

Pending approval of incentives to be provided by state and local governments, two prominent Spanish solar power component manufacturers, Prius Energy S.L. and Isofoton, have agreed to open new manufacturing facilities in Ohio to help construct the 239,400 panel solar array. If operating today, Turning Point would be the largest photovoltaic solar array in the United States. Approximately 300 jobs will be needed to build the project at peak construction. In addition, Prius and Isofoton have agreed to locate their North American operations in Ohio, creating more than 300 permanent manufacturing jobs.

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**“This announcement is the next chapter in a great story of transforming Ohio’s reclaimed mine lands”**

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“This project is compelling on several fronts,” said David Wilhelm, New Harvest Ventures partner. “Turning Point Solar will bring renewable energy to Ohioans at a reasonable rate, utilize reclaimed mine land in an innovative way, and bring new construction and manufacturing jobs to Appalachian Ohio.”

Last week, Gov. Strickland signed an executive order eliminating Ohio's tangible personal property tax and real property tax for advanced and renewable energy project facilities, making it easier for energy companies to do business and create jobs in Ohio. In 2008, Strickland signed a landmark energy reform bill, SB 221, that calls for 25 percent of all energy consumed by Ohioans to come from advanced energy sources by 2025. Of that, .5 percent must be solar energy.

“We recognized the future when we established our state’s aggressive renewable portfolio standard, invested in the energy industry and eliminated taxes for new energy facilities to create jobs and grow Ohio’s advanced energy industry,” said Governor Strickland. “Today, the future has recognized Ohio. One of the largest solar farms in the nation is going to be built here in Ohio, with solar panels and solar trackers made in Ohio, built by Ohioans with the know-how taught in Ohio colleges.”

Gov. Strickland, accompanied by state and federal lawmakers and project stakeholders looked on as Turning Point Solar developers signed memoranda of understanding with AEP, Prius, Isofoton, and the University System of Ohio. Prius produces sun tracking equipment and racks for panels. Isofoton manufactures large, 275 w solar photovoltaic panels.

“This is not your typical fixed solar array. To maximize output, Turning Point expects to deploy high-efficiency photovoltaic panels controlled by Prius Energy’s state of the art solar tracking equipment,” said José Carlos Sánchez-Muliterno, partner and board member for Albacete, Spain based Prius Energy S.L.

Isofoton CEO Angel Luis Serrano added, “Isofoton, the reference Spanish photovoltaic manufacturer and worldwide pioneer in solar energy since 1981, is committed to setting up a next generation factory model here in Ohio. The factory will be built with local suppliers for local end-users, and with a mandate to create good and green local jobs in close partnership with Ohio’s public sector energy leaders and private sector utilities. We understand that ‘Made in USA’ is an attribute to be proud of. We are honored to join Ohio’s corporate community, renewable energy sector and growing solar cluster, together with Turning Point Solar. We look forward to becoming a dedicated contributor to Ohio’s economy, putting locally manufactured Isofoton PV cells on Prius trackers and helping to make the green economy vision a reality.”

Turning Point Solar is using a tract of at least 500 acres of reclaimed land mined by the Central Ohio Coal Company between 1969 and 1991. The land was infamously strip-mined by the Big Muskie, then the world's largest dragline, and one of the world's largest mobile earth-moving machines. Big Muskie removed more than 608,000,000 cubic yards (465,000,000 m<sup>3</sup>) of [overburden](#), which is twice as much earth as was moved during construction of the [Panama Canal](#).

A [wildlife park](#) called [The Wilds](#), which opened in 1994, was created from 10,000 acres of the land stripped by Big Muskie and reclaimed. Turning Point Solar is adjacent to The Wilds, on about 1,000 fallow acres of the reclaimed land owned by the nature conservancy and the AEP. Prairie planting tests are currently being conducted as part of plans to transform the land under the solar panels into an organic carbon sink.

"This announcement is the next chapter in a great story of transforming Ohio's reclaimed mine lands," said Wilds Executive Director Evan Blumer. "We see today that with responsible stewardship and visionary leadership, we can restore our land while we improve our energy diversity and security, and bring the green collar economy to Appalachia."

Zane State University and Hocking College have both developed programs to train workers in a variety of green jobs programs including the essential skills needed to build and maintain solar operations such as Turning Point.

Congressman Zack Space (OH-18), in whose district the project will be located, concluded, "Today's announcement of more than 300 jobs coming to Southeastern Ohio provides an enormous boost for our economy in the short-term, and paves the way for the kind of long-term development that will help Appalachian Ohio reverse the economic disparity that has been so devastating to our towns and communities."

#### About New Harvest Ventures

New Harvest is a renewable energy development company led by David Wilhelm and Craig Overmyer, co-founders of Woodland Venture Management, which has previously launched path breaking, regionally-focused venture capital funds in the Appalachian and Great Lakes regions of the United States. They have earned a reputation for investing in strong companies located off the beaten path, often in rural areas of the country—places like Nelsonville, Ohio, Altoona, Penn., and Marquette, Mich. The mission of New Harvest builds on that work: to advance promising projects and proven energy technologies in environmentally- and economically-challenged regions of the United States.

#### About Agile Energy

Agile Energy, based in San Bruno, CA, develops utility scale photovoltaic ("PV") plants in North America. The company was founded in 2009, coincident with the closing of its Series A investment by Good Energies, Inc. For more on Agile's history and team, please refer to its website at [www.agileenergy.com](http://www.agileenergy.com). Agile's co-founders, Mr. Glen Davis and Mr. Robert Morgan have spent their careers in the power industry, first at AES Corporation for a combined 32 years and then at Ausra, Inc. The Agile team brings over 60 years of combined experience in power project development and has collectively secured over \$5 billion in debt and equity project financing spanning five continents. Members of Agile's team have developed several solar PV projects over the last several years.

#### **Contacts**

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**Permalink:** <http://www.businesswire.com/news/home/20101005006870/en/Transformative-49.9-MW-Solar-Array-Developed-Reclaimed>



## Advanced Energy Job Stimulus Program

A key component of Ohio's program to create new jobs and encourage economic development, the \$150 million Advanced Energy Job Stimulus Program is designed to support new technology projects on a fast track toward commercialization. As part of the \$1.57 billion job stimulus package signed into law by Governor Ted Strickland in June 2008, the goal of the program is to employ Ohio workers in the advanced energy jobs of the future.



### Project Name:

## Turning Point Solar Project

### Project Location:

Cumberland, Ohio (Muskingum and Noble Counties)

### Applicant Information:

Turning Point Solar LLC, or TPS, is a privately held limited liability company. Formed in August 2010, TPS shares a 50/50 ownership structure between Agile Energy of San Bruno, California and New Harvest Ventures of Gahanna, Ohio. The TPS project – a 49.9-megawatt solar photovoltaic electric generation station – will utilize materials and component parts manufactured by two Spanish companies – Isofoton and Prius Energy. American Electric Power (AEP) is also a project partner.

### Project Description:

Turning Point Solar LLC proposes to build a 49.9-megawatt solar-powered electric generation station. The plant will be located on a yet-undefined footprint within 500 acres of reclaimed strip mine lands owned by AEP in Muskingum and Noble Counties outside of Cumberland, Ohio. The project will use monocrystalline photovoltaic panels manufactured by Isofoton and solar tracking equipment managed by Prius Energy. When built, the facility will be the largest photovoltaic array east of the Mississippi River. A primary driver of this project is Ohio Senate Bill 221, which requires investor-owned utilities in Ohio to procure 25 percent of their power from renewable energy sources by 2025. TPS is negotiating a long-term Power Purchase Agreement, or PPA, with AEP, which is offering a reduced lease rate to the land. TPS intentionally located the project in Ohio's Appalachian region to serve as a centerpiece for integrated rural economic development.



*Project team members on site visit*

**Funding Request:** \$10,000,000

**Approved Funding:** \$7,612,500 loan

**Total Projected Investment:** \$220,112,500

**Use of Stimulus Funds:** Electricity generation from renewable energy (solar)

**Jobs Created:** 312 full- and part-time construction jobs  
20 new full-time jobs

**Jobs Retained:** 4

**Type of Jobs Created:** Construction, operations, maintenance and administrative

**Qualifying Technology Category:** Solar energy

**Project Customers:** Residential and commercial electricity consumers

**Industry Sector Suppliers:** Photovoltaic panel manufacturers, solar tracking equipment manufacturers



**Mark R. Shanahan**

Governor's Energy Advisor and  
Executive Director, Ohio Air Quality  
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**Turning  
Point  
Solar**

**Apolka Totth**  
Director


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San Bruno, California 94066  
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A slide titled "Project Highlights". On the left side, there is a vertical strip of the same solar panel and sun image seen in the first slide. The main content is a numbered list of six points.

**Project Highlights**



- 1) Rural
- 2) Opportunity to Highlight Ohio's Emerging Solar Industry
- 3) Opportunity to Generate Permanent Manufacturing Employment
- 4) Opportunity to Train Workers for Green Energy Jobs
- 5) Opportunity to Potentially Integrate Carbon Sequestration Strategies
- 6) Opportunity to Benefit from Federal and State Incentives




# Project Overview




- 49.9MW Solar Photovoltaic Power Plant
- Three phases of development
  - Phase 1: 20MW (2012)
  - Phase 2: 15MW (2013)
  - Phase 3: 14.9MW (2014)
- Enables Ohio Power Company and Columbus Southern Power Company ("AEP Ohio") to meet Ohio Renewable Portfolio Standard, S.B. 221
- Located on reclaimed coal mine land in Muskingum and/or Noble Counties
- Brings new jobs to Ohio
  - Construction
  - Manufacturing
  - Operation & Maintenance
- MOU signed with Ohio Board of Regents - educational renewable energy programs with the University System of Ohio
- Turning Point Solar will allow Ohio, one of the nation's largest energy consumers, to continue building its OEM base with clean sustainable energy





# Turning Point Solar



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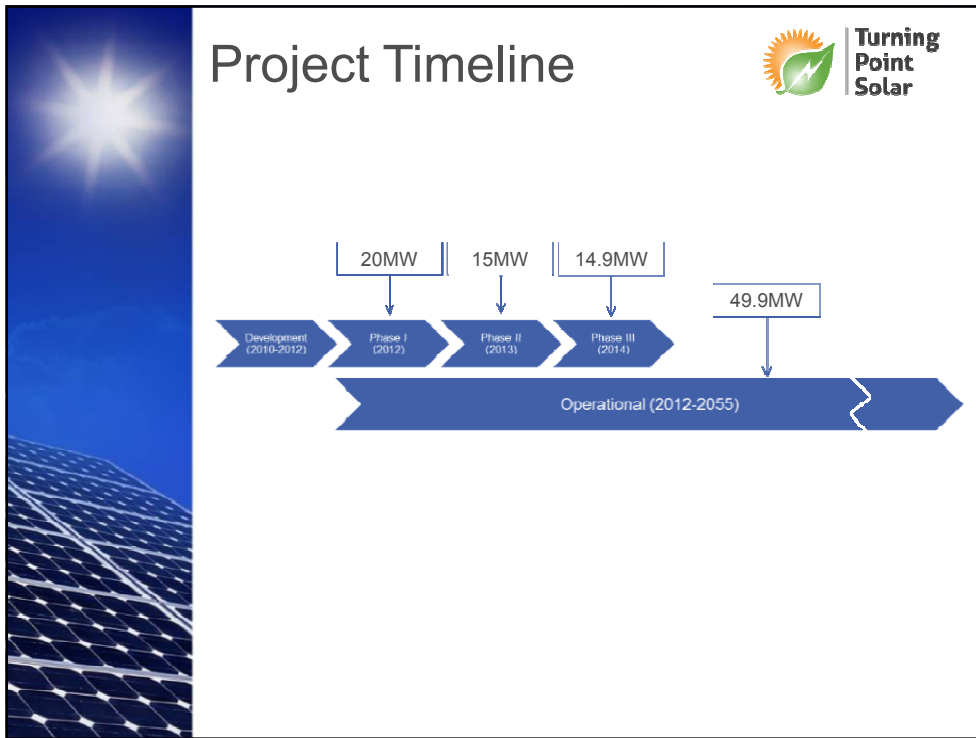
            graph TD
            GE[Good Energies, Inc.] -- 80% owner --> AE[Agile Energy, Inc.]
            AEE[Agile Energy, Inc. Employees] -- 20% owner --> AE
            AE -- 50% owner --> TPS[Turning Point Solar LLC]
            NHV[New Harvest Ventures, LLC] -- 50% owner --> TPS
            
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- Based in San Bruno, CA, Agile Energy develops utility scale photovoltaic ("PV") plants in North America
- Founded in 2009, coincident with the closing of its Series A investment by Good Energies, Inc.
- Co-founders, Mr. Glen Davis and Mr. Robert Morgan have spent their careers in the power industry (AES Corporation for a combined 32 years and then at Ausra, Inc.)
- New Harvest is a renewable energy development company led by David Wilhelm and Craig Overmyer, co-founders of Woodland Venture Management, which has previously launched path breaking, regionally focused venture capital funds in the Appalachian and Great Lakes regions of the United States.





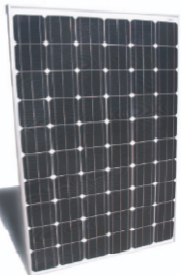
## Job Creation



- Construction
  - 200 -300 (3 peaks) jobs
  - Manufacturing (Prius & Isofoton)
  - 300+ Full-Time Employees
  - Prius Energy S.L. and Isofoton N.A. have signed MOUs with TPS
- Operation and Maintenance
  - 8 Full-Time Employees



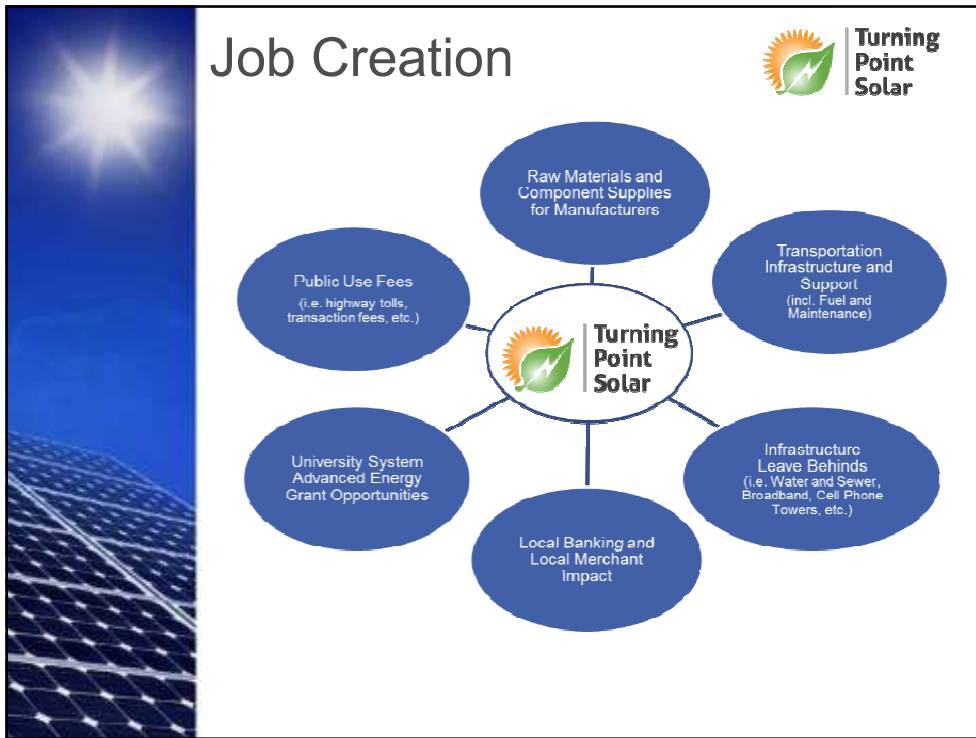
**Prius Trackers**



**Isofoton Modules**



**Array of Prius Trackers**



## Collaboration Partners



## Conclusion



### Turning Point Solar LLC:

- Create Power adequate for 25,000 – 30,000 Homes
- Brings hundreds of new jobs to Appalachian Ohio
- Displaces over 160,000 tons of Carbon Dioxide (CO<sub>2</sub>) from the environment annually
- Spurs growth of a New Green Economy in a distressed socio-economic region of Ohio
- Develops and Contributes to Ohio Universities' Renewable Energy Programs
- Aids the development of Ohio as an Advanced Energy Cluster
- Brings global recognition to Ohio as the home of a marquee solar facility



# Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

DAVID MUSTINE, DIRECTOR

## Ohio Division of Wildlife

Office of the Chief  
2045 Morse Rd., Bldg. G  
Columbus, OH 43229-6693  
Phone: (614) 265-6300

March 11, 2011

Jim Burns  
URS Corp.  
1375 Euclid Ave.  
Cleveland, OH 44115

Dear Jim:

I have reviewed our Biodiversity Database for the three Turning Point Solar Siting project areas, including a one mile radius at each site, in Meigs Township, Muskingum County, Cumberland Quad; Brookfield Township, Noble County, Cumberland and Caldwell North Quads; and Bristol and Meigsville Townships, Morgan County and on the Reinersville and McConnelsville Quads (13814246.00008). The numbers on the list below correspond to the areas marked on the accompanying map. Common name, scientific name and status are given for each species.

Site #1, Meigs Twp., Muskingum Co., Cumberland Quad

No data.

Site #2, Brookfield Twp., Noble Co., Cumberland/Caldwell North Quads

*Felis rufus* – Bobcat, endangered

Site #3, Bristol/Meigsville Twps., Morgan Co., Reinersville/McConnelsville Quads

1. Mussel Bed
2. Great Blue Heron Rookery
3. Great Blue Heron Rookery
4. *Accipiter striatus* – Sharp-shinned Hawk, species of concern

We are unaware of any geologic features, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, parks or forests, or other protected natural areas within a one mile radius of the project area. We also have no records for Indiana Bat (*Myotis sodalis*, state endangered, federal endangered) capture locations within a five mile radius or hibernacula within a ten mile radius of any of the three project sites.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas.

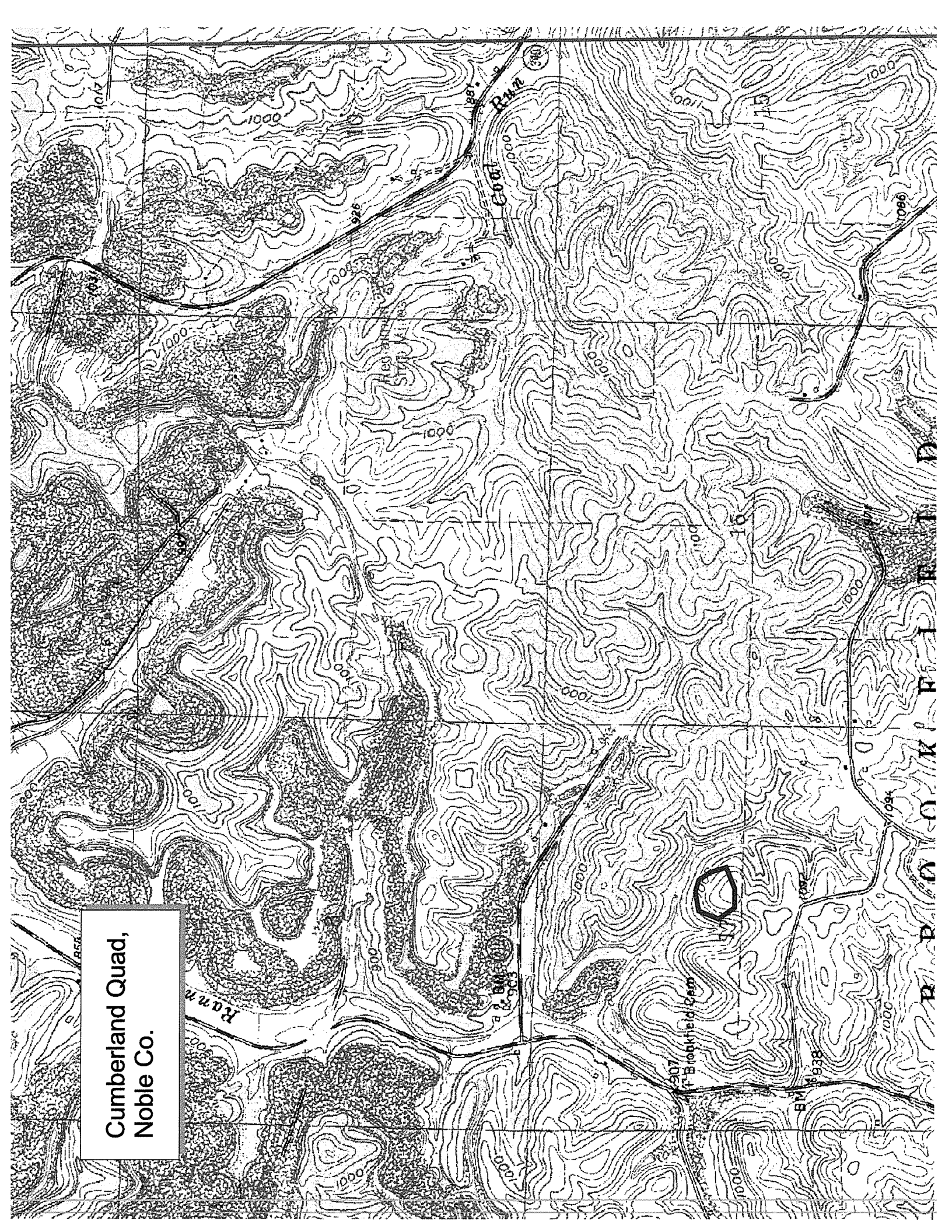
Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

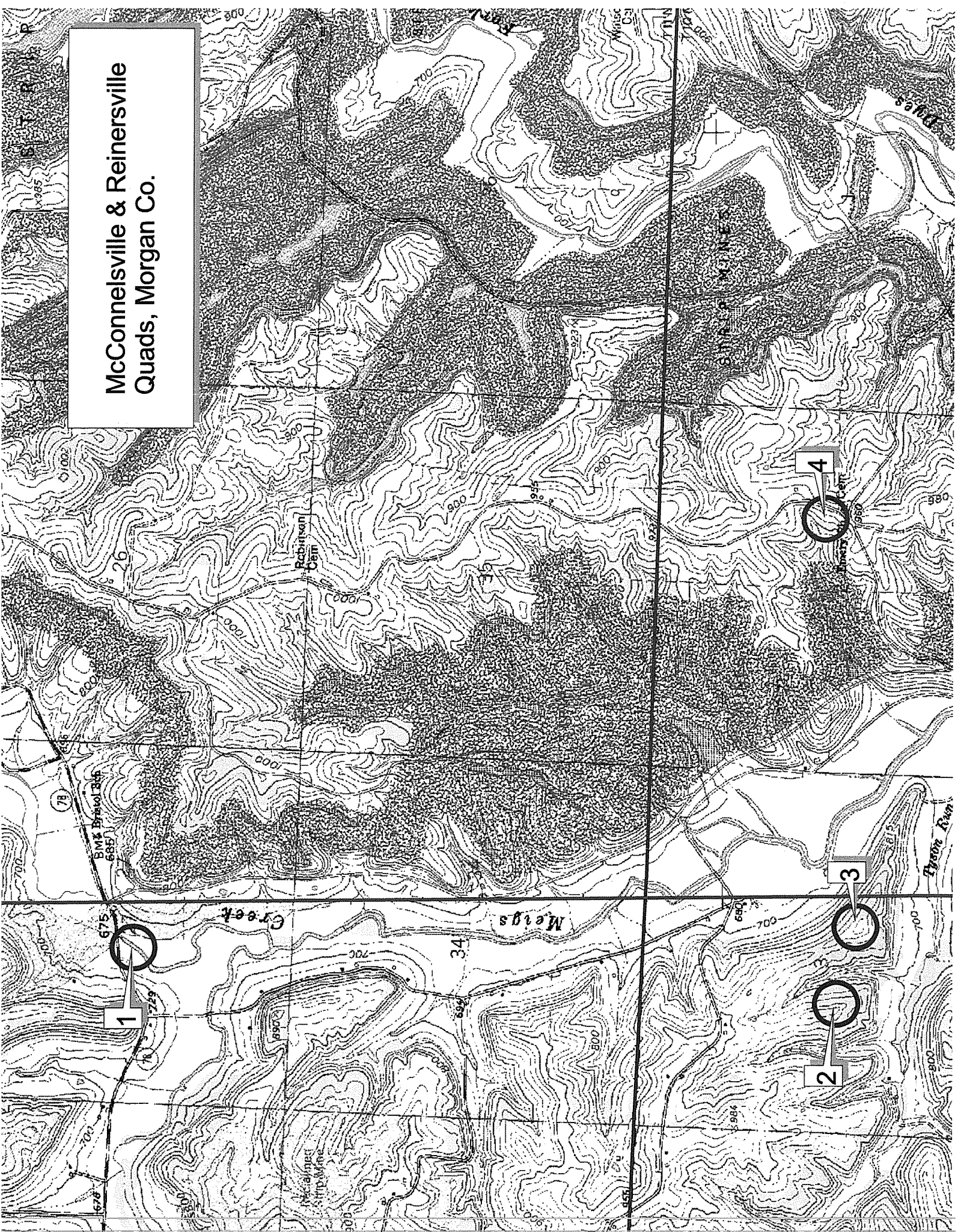
A handwritten signature in black ink, appearing to read "Debbie Woischke".

Debbie Woischke, Ecological Analyst  
Ohio Biodiversity Database Program

Cumberland Quad,  
Noble Co.



McConnellsville & Reinersville  
Quads, Morgan Co.



1

2

3

4

BM 6857  
675

Robinson Dam

Meigs Creek

McConnellsville  
Strip Mine

Thyons Run

Wills Creek

Reinersville

# Daily-Jeff.com

## Solar plant expanding original base

Holly Bilyeu / Caldwell Bureau  
April 3, 2011

CALDWELL -- The new solar plant that will be coming to Noble County is expanding its original base to also include Brookfield Township, adjacent to Noble Township where the original enterprise zone was chosen.

"The reason for that is they're not sure if they're going to make it (Brookfield Township) an alternative energy zone or enterprise zone," said Community Improvement Corporation President Scott Braden. They wanted to keep their options open."

Economic Development Director Mike Lloyd went to the Brookfield Township trustees to get their approval to begin the paperwork to make this happen. Upon completion, the paperwork will be submitted to the state of Ohio.

All of the plans for the solar plant are currently under review with the Public Utilities Commission Office. This office has 270 days to decide on the final approval from the date the application was submitted.

"We should hear something by September," said Braden.

If the solar plant meets the final approval, early construction should begin early 2012 with panels being moved onto the location later in September that year.

hollyb@daily-jeff.com