

# Air Emission Credit Registry Presentation Handout



Indiana Department of Environmental Management  
*Protecting Humans and Our Environment Since 1986*  
A State Our Way

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1

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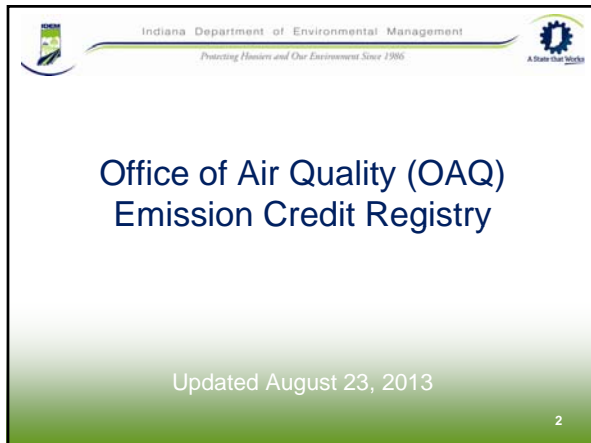
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Office of Air Quality (OAQ)  
Emission Credit Registry

Updated August 23, 2013

2

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Registry Program Goals

- Assist sources looking for emission offsets for nonattainment New Source Review (NSR) permitting
- Provide a central, publicly available location where information about emission credits can be stored and viewed

3

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## Registry Program Highlights

- **Voluntary participation** – No one is required to use this registry to obtain their emission offsets
- **Market-based system** – Entities will trade with each other to obtain emission credits
- **Free Service** – No application fees for the Registry service – only the normal air permitting fees
- **No new rules** – Based on what is currently allowed in state rules (326 IAC 2-3-4)
- **Flexible** – Only references state rules so the guidance will be updated as rules change, but the program itself doesn't change

4

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## Why Generate Reductions?

- **Health** – Reducing air pollutant emissions will improve the overall air quality in Indiana
- **Offsets** – Reductions can be used to offset increased emissions from growth and expansion projects
- **Economics** – Emission reduction programs often save money through lower fuel usage and using less raw materials and through the sale of emission credits

5

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## Who Will Use the Registry?

- **Regulated sources** that need to find offsets for expansion projects
- **Companies** looking to build new manufacturing facilities in nonattainment areas
- **Citizens and environmental groups** who want to stay informed about Indiana's air quality
- **Companies** that wish to buy, sell, or trade emission credits

6

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## The Registry Process

- ▶ [Posting Emission Credits Need List](#)
- ▶ [Registering Emission Reductions](#)
- ▶ [Transferring Registered Emission Credits](#)
- ▶ [Using Registered Credits](#)

7

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## [Posting Emission Credits Need List](#)

- **Step 1** – Determine what amount of credits will be needed for your new construction or expansion project
- **Step 2** – Apply to post your need on the Emission Credit Registry website
- **Step 3** – Verify that the list was posted correctly to the website

8

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## [Registering Reductions as Credits](#)

- **Step 1** – Generate permanent, quantifiable, federally enforceable, and surplus reductions in air pollutant emissions
- **Step 2** – Apply for permit or source modification
- **Step 3** – Apply to register the reductions as emission credits
- **Step 4** – Verify that the credits were posted correctly to the website
- **Step 5** – Work with IDEM to resolve any issues that may arise

9

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### Transferring Registered Emission Credits

- **Step 1** – Credit seeker will check the website to locate the type and quantity of emission credits wanted
- **Step 2** – Credit seeker will contact the listed owner of credits to work out the details of the transaction
- **Step 3** – Submit an application to update the Registry to show the new owner of credits
- **Step 4** – Verify that the transfer of credits was posted correctly to the website

10

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### Using Registered Credits

- **Step 1** – Check the website to locate the type and quantity of emission credits needed
- **Step 2** – Contact the owner of the credits to work out the details of the transaction
- **Step 3** – Apply for any appropriate permit or source modifications
- **Step 4** – Submit an application to update the Registry
- **Step 5** – Work with IDEM to resolve any issues that may arise

11

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## Explanation and Examples

- ▶ Generating Emission Reductions
- ▶ Registering Reductions as Credits
- ▶ Transferring Registered Emission Credits
- ▶ Using Credits

12

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## Generating Emission Reductions

- **Modifications:**
  - Installation of control equipment
  - Changes in process inputs, formulations, products, product mix, or raw materials
  - Reductions in actual emission rates
  - Reductions in operating hours
- **Production curtailment or shutdown of emitting sources or facilities** – *may not be usable if used in the state's attainment plan*
- Any other enforceable and approved method

13

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## Calculating the Amount of Reduction (Modifications Only)

- **Step 1** – Calculate average actual annual emissions prior to emission reduction using data from the 24-month period immediately preceding the reduction in emissions
- **Step 2** – Calculate annual emission rate following reduction
- **Step 3** – Subtract the annual emissions rate following the reduction from the average actual annual emissions prior to the reduction

14

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## Calculating the Amount of Reduction (Curtailment Only)

- **Step 1** – Calculate average actual annual emissions prior to curtailment using data from the 24-month period immediately preceding the reduction in emissions
- **Step 2** – Calculate allowable annual emission rate following curtailment
- **Step 3** – Subtract the allowable annual emissions rate following the curtailment from the average actual annual emissions prior to the curtailment

15

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## Emissions Calculations Methodology

- The following methods are acceptable for calculating the quantity of emission reductions:
  - AP-42 Compilation of Air Pollutant Emission Factors
  - Stack Test data
  - Continuous Emissions Monitoring System (CEMS) data
  - Other approved methods

16

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## Registering Reductions as Credits

- Registry only includes Indiana reductions
- Registry covers all criteria air pollutants, but not hazardous air pollutants
- Registry only includes stationary sources
- Reductions must be
  - Permanent
  - Quantifiable
  - Federally Enforceable
  - Surplus
- The Federal nonattainment New Source Review (NSR) program, and therefore the Indiana nonattainment NSR program, requires emission credits to be validated at time of use and not time of generation

17

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## Conditions That Qualify the Credits

- **Permanent:** Assured for the life of the emissions unit through an enforceable mechanism
- **Quantifiable:** Amount, rate and characteristics are measurable or calculated through a reliable and approved method
- **Enforceable:** Authority to enforce the requirements that sustain the reduction
- **Surplus:** Voluntary reductions and in excess of those required by any local, state, or federal requirement

18

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## Transferring Registered Emission Credits

- The Generator is the original "owner" of the emission credit
- Credits may be transferred by any means of conveyance permitted under state and federal laws
- The Registry must be updated once transfers are complete so the appropriate "owner" contact information is displayed

19

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## Using Credits

- Credits for a criteria pollutant may only be used to offset emissions of that same criteria pollutant
- Credits are generally used to offset emissions within the nonattainment area where the reductions were generated
- Credits are not usable after a certain amount of time has passed
- "Offsets" versus "Netting"

20

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## 5 Years Plus Time for Construction

- **326 IAC 2-3-4(d)**: A decrease in emissions may be credited for offset purposes only if it occurs between the date 5 years before construction commences on a proposed physical or operational change and the date the increase in actual emissions from that change occurs.

21

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## "Offsets" versus "Netting"

- **Pure Offset:** Source A reduces emissions to offset the increase in emissions generated when Source B expands production, or when Source C builds a new manufacturing plant
- **Internal Netting:** Source A reduces emissions in one area of the plant to internally compensate for an increase in emissions that will be created when Source A expands production in another area of the plant

22

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## Additional Documents/Questions

- **Registry website** – answers several common questions about the Registry
- **Fact sheet** – summary of program
- **Application forms and instructions** – explain in detail the process for:
  - Registering emission credits
  - Transferring emission credits
  - Using emission credits
  - Posting an emission credit need

23

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## For More Information...

- **Air Emission Credit Registry**  
[www.idem.IN.gov/airquality/2503.htm](http://www.idem.IN.gov/airquality/2503.htm)
- **Jed Wolkins**  
Indiana Dept. of Environmental Management  
Office of Air Quality – Permits Branch  
(800) 451-6027 or (317) 233-0178

24

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**and More Information...**

**New Source Review Air Permitting**  
<http://www.epa.gov/nsr/>  
**Nonattainment Areas**  
[www.idem.IN.gov/airquality/2339.htm](http://www.idem.IN.gov/airquality/2339.htm)

**Compliance and Technical Assistance Program (CTAP)**  
Indiana Dept. of Environmental Management  
Office of Pollution Prevention and Technical Assistance  
(800) 451-6027 or (317) 233-0178

25

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26

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