



Roofs to Roads Colorado

- LAUNCHED IN FEBRUARY 2009 AFTER TWO YEARS OF PLANNING AND INITIAL WORK

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- SUPPORT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH, POLLUTION PREVENTION ADVISORY BOARD, ADVANCED TECHNOLOGY GRANT
 - SUPPORT FROM BOULDER COUNTY RESOURCE CONSERVATION DIVISION



- GOAL # 1:
- Keep Asphalt Shingles Out of the Landfill (5,000 Tons in 2009)

- 240,000 TONS PER YEAR landfilled in Colorado, 12 million tons nationally
- Shingles are a valuable resource and they are bad for the landfill
- Case of the Marshall landfill





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■ GOAL # 2

- Shingles are ground and used in asphalt mixes for paving roads

- Asphalt Specialties first company in Colorado to have a grinder
- North 63 St in Boulder was paved in April 2009 with manufacturer scrap
- Additional projects currently under review





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- Missouri Specification

- GOAL #3

- Establish an ongoing market, with municipalities and CDOT writing specifications that allow or mandate the use of Recycled Asphalt Shingles (RAS) from Tear-Off or demolition shingles



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1. COLLECTION of tear-off shingles
2. PROCESSING for re-use
3. MARKETS and Use for RAS

30% of asphalt shingles are asphalt. This asphalt has market value!



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Getting Started

- Amendment 37
- BGBG
- National Conference on Recycling Asphalt Shingles (CMRA) November 2009, Chicago
- Experience from other states



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Making Resources of Obstacles and Challenges

- CAPA
- CDOT
- Boulder County
Transportation
Department
- Economics
- Grinder
- Regulatory Issues
(asbestos, dust)



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Support from Colorado Recycling Community

- Help us spread the word
- Legislation ending landfill of shingles
- Municipalities pass specifications allowing or mandating use of RAS

Advice



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- Keep your eyes on the prize
- **Do what's in front of you**
- Build your support network
- Build it more and more
- Ask for what you need
- Use available funding programs
- Markets are the driver



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Southern Colorado Shingle Recycling Center

- 3 – 4 acres
- Inform local roofers – free disposal to start, fee later plus legislative mandate if you want
- Asbestos test and sorting
- Grinder will travel for 3,000 tons
- Use the material on your roads – 5% blend
- Improve roads and save asphalt costs

- Reduced Greenhouse Gas Emissions!
Carbon dioxide equivalents per kilogram

Drywall	24
Asphalt (RAP)	111
Asphalt (shingle)	60
Clay, brick	3
Concrete	170
Wood	11
Vinyl windows	122
Steel (hot rolled)	1 862
Steel (galvanized)	1 465
Steel (structural)	820
Copper	1 600

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