

Inflation Reduction Act (IRA) of 2022

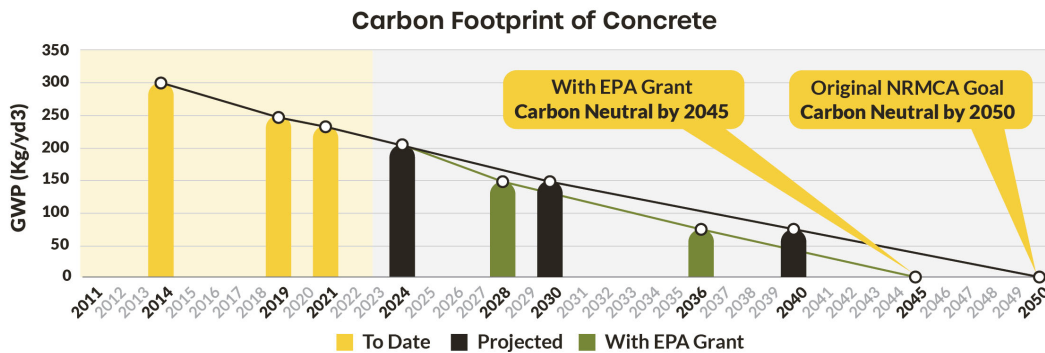
Procure Low-Carbon Materials	\$2.15 billion to GSA \$2 billion to the FHWA
Develop EPDs	\$250 million to EPA
Label Materials with Lower GWP	\$100 million to EPA, FHWA, and GSA



Accelerating Concrete's Drive To Carbon Neutrality

\$9.63 Million EPA Grant

GOAL: Reduce the carbon footprint of concrete by 50% by 2028 and achieve carbon neutrality by 2045.



www.nrmca.org/EPAGrant

Funding and Timeline

- NRMCA was notified of selection – June 18, 2024
- Public announcement of grant selection – July 16, 2024
- Grant may start funding in Q2 2025
- NRMCA will begin administering pass-through grants – Q4 2025
- Funding is for 5 years



Objective 1: Increase Number of Ready Mixed Concrete EPDs

Goal: Increase plants with EPDs from 1500 to 4500

Plant	Amount
Companies that did not have EPDs ¹	\$5,000 for first plant
Companies that already have EPDs ²	\$2,000 per plant

1. Companies who have never published an EPD at any plant.
2. For second plant and beyond
 - a. Publish EPDs at a plant that did not have EPDs (up to 20 plants)
 - b. Publish new EPDs using 2025 PCR with GWP lower than NRMCA Benchmarks at a plant with EPDs (up to 50 plants)

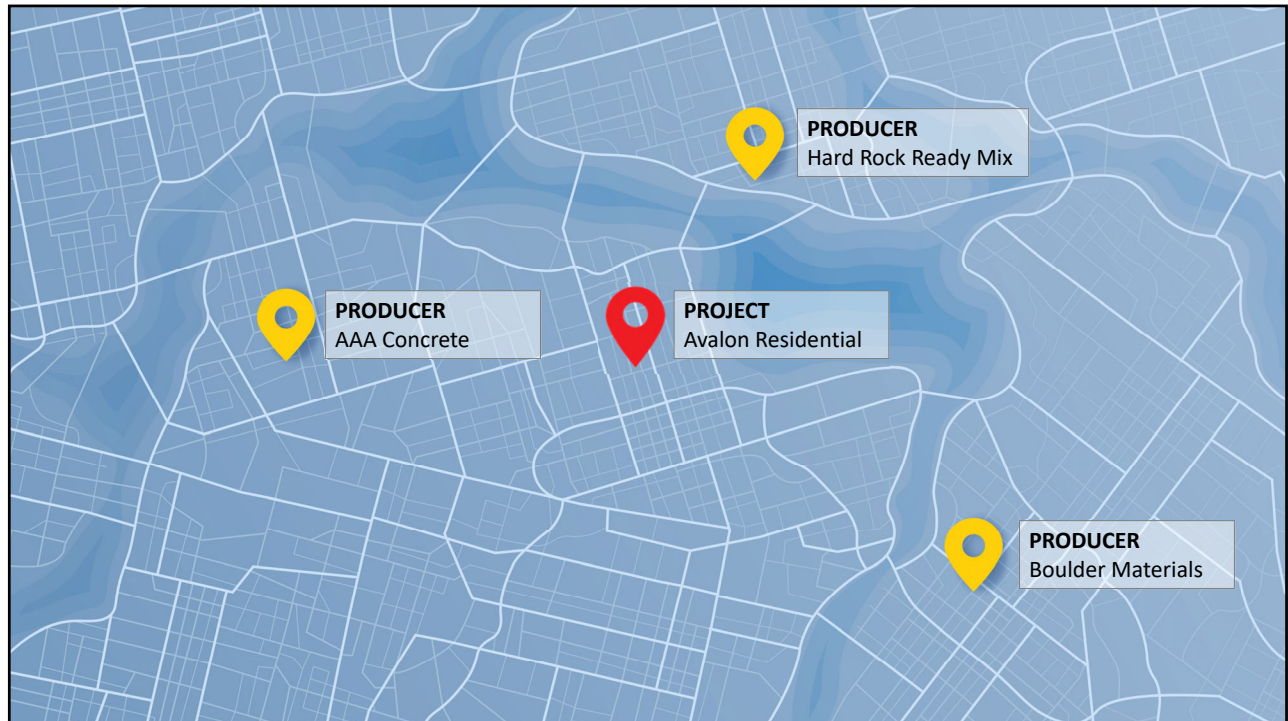


List of plants that meet requirements

PROJECT NAME	Avalon Residential
LOCATION	1111 Main Street, Springfield, IL

PRODUCER	TOP 20 th	TOP 40 th	ABOVE AVERAGE	DISTANCE
Hard Rock Ready Mix	5 products	4 products	16 products	5.63 miles
AAA Concrete	0 products	3 products	4 products	7.56 miles
Boulder Materials	5 products	2 products	10 products	12.62 miles

MIX ID	COMP STRENGTH	GWP	PERFORMANCE
1134000-1	4000 psi	219 kgCO2e	TOP 20 th
1134000-2	4000 psi	215 kgCO2e	TOP 20 th
1135000-1	5000 psi	245 kgCO2e	TOP 20 th
1135000-2	5000 psi	267 kgCO2e	ABOVE AVE
1135000-3	5000 psi	298 kgCO2e	BELOW AVE



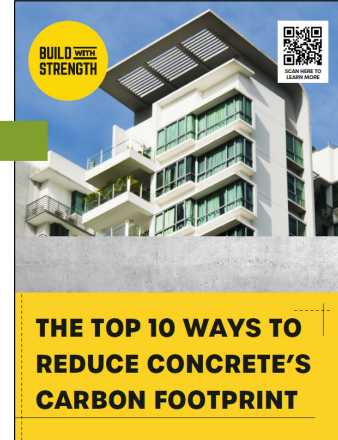
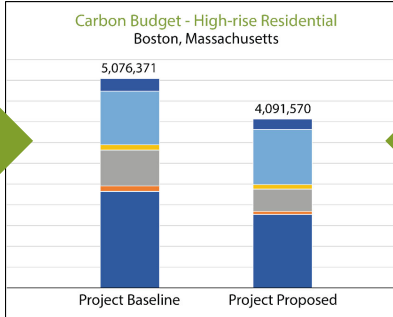
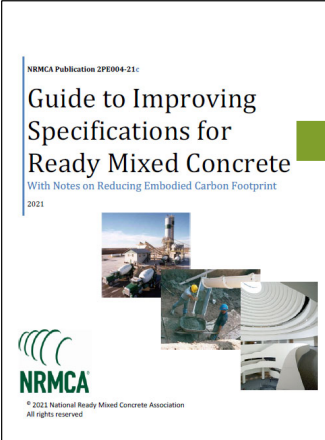
Objective 2: Ensure Technical Proficiency of Concrete Industry Personnel

Goal: Certify 500 Individuals

- Enhance Concrete Design Center to consult on EPDs
- Develop and maintain education and certification program for producers
- Improve the accuracy and efficiency of verifying EPDs
- 5 Low-Carbon Workshops per year



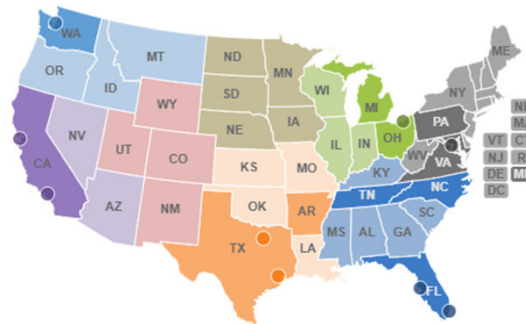
Objective 3: Enhance Low-Carbon Concrete Design Tools



- Enhance Carbon Calculator
 - Specification guidance
 - Low-carbon concrete strategies
 - AI specification review tool

Objective 4: Improve Benchmarks for Concrete

- Publish **benchmarks in 30 regions** in 2025
- Publish **benchmarks in 50 regions** in 2029



Objective 5: Improve PCRs and EPDs for Concrete and Constituent Materials

- Develop PCR, benchmarks and EPDs for **admixtures**
- Update PCR and develop benchmarks and EPDs for **lightweight aggregates**
- Develop benchmarks for **RCC pavements**



Other Grants

- DOE Grant: Collaborative Alignment for Critical Technology Industries
 - NRMCA was part of a team headed by PNNL
 - Total award was \$6.5M
 - **NRMCA awarded \$584k** to support:
 - EPDs for innovative technologies
 - Industry advisory group
 - AI Spec Review Tool, Guide Spec
- NRMCA is proposing on other grants with potential of over \$1.5M of funding to support NRMCA EPD, PCR, education and tools.

Other Resources

www.nrmca.org/EPAgrant

www.nrmca.org/EPD

www.nrmca.org/sustainability

www.concreteinnovations.com

