

Evaluation of Proposed FY 2018, 2019, and 2020 CMAQ Projects for the FY 2017-2021 MAG TIP



MAG Air Quality Technical Advisory Committee
October 22, 2015

FHWA Congestion Mitigation and Air Quality Improvement (CMAQ) Program

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- To fund transportation projects and programs that will contribute to attainment or maintenance of the federal air quality standards for ozone, carbon monoxide, and particulate matter (PM-10, PM-2.5)
- FHWA published Interim Program Guidance on November 12, 2013
- Assessment of the project's expected emission reduction benefits and cost-effectiveness should be completed prior to project selection to better inform the selection of CMAQ projects

MAG Call For Projects

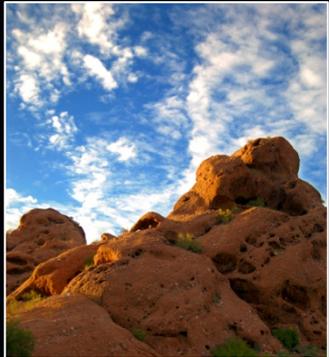
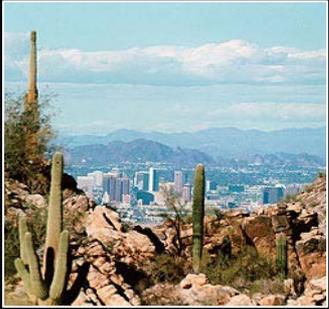
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- **Applications were due on September 21, 2015**
 - **Air Quality Projects (e.g. PM-10 Paving Unpaved Roads, PM-10 Certified Street Sweepers, and Trip Reduction and Rideshare Programs) - \$6.59 million in CMAQ in FY 2018, \$6.78 million in CMAQ in 2019, and \$6.92 million in CMAQ in 2020**
 - **Arterial Intelligent Transportation Systems Projects - \$3.68 million in CMAQ funding available in FY 2018 and 2019**
 - **Bicycle and Pedestrian Projects - \$7.8 million in CMAQ funding available each year in FY 2018, 2019, and 2020**
 - **MAG evaluated 37 PM-10 Paving Unpaved Road Projects, PM-10 Street Sweeper Projects, and other Air Quality Projects; 32 ITS Projects; and 37 Bicycle and Pedestrian Projects**

Evaluation of Proposed CMAQ Projects

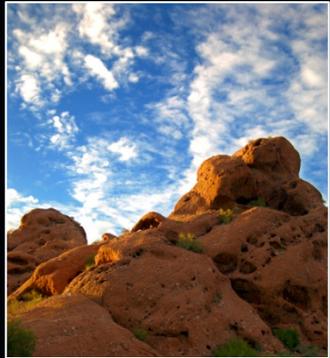
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- Use application data provided by member agencies
- Apply MAG CMAQ Methodologies, first published in 1999, and was last updated in September 2011 is available at:
http://www.azmag.gov/Documents/CMAQ_2011-04-05_Final-CMAQ-Methodologies_3-31-2011.pdf
- Estimate the project emission reductions for TOG, NOx, and PM-10 in kilograms per day
- Apply seasonal adjustments and priority weights
- Calculate cost-effectiveness for project by dividing the annualized CMAQ cost by the annual emission reductions

Evaluation of Proposed CMAQ Projects

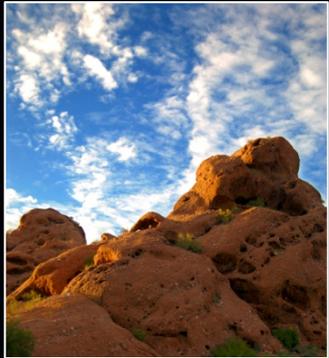
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- **Results of the CMAQ project evaluation are sorted by cost effectiveness in Attachment A**
 - **Air Quality, Bicycle and Pedestrian, and ITS projects for FY 2018 are provided in Tables 1-3**
 - **Air Quality, Bicycle and Pedestrian, and ITS projects for FY 2019 are provided in Tables 4-6**
 - **Air Quality and Bicycle and Pedestrian projects for FY 2020 are provided in Tables 7-8**

Schedule

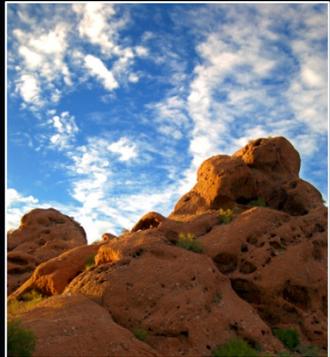
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- **October – November 2015 – ITS Committee, Bicycle and Pedestrian Committee, and Street Committee review project applications**
- **October 2015 – Air Quality Technical Advisory Committee forwards the CMAQ evaluation to the Transportation Review Committee (TRC) and modal committees**
- **November 2015 – Modal committees use CMAQ evaluation and other methods to rank projects and forward ranking to the TRC**
- **December 2015 – TRC reviews Federal Fund Priority Listing of Projects and TIP listings**
- **January 2016 – Management Committee may recommend, and Regional Council may approve Federal Fund Priority Listing of Projects**

Committee Action Requested

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- Forward the evaluation of proposed FY 2018, 2019, and 2020 CMAQ projects for the FY 2017-2021 MAG Transportation Improvement Program to the MAG Transportation Review Committee and modal committees for use in prioritizing projects.
- Rank the Air Quality Projects to be forwarded to the MAG Transportation Review Committee.



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