

Riverside Public Utilities School Education Program

Public Utilities Department

Board of Public Utilities
October 22, 2018

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Background

AB 1890 (1996) requires that all publicly owned utilities design and implement programs promoting energy efficiency and conservation to ratepayers.



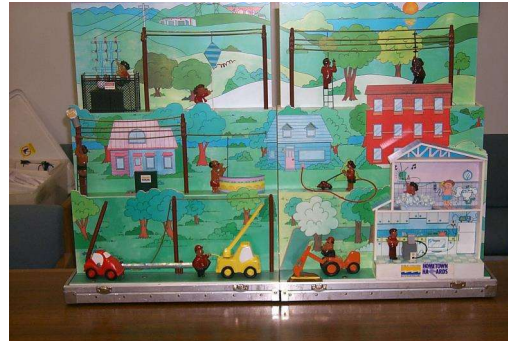
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Background

1. 2001: Fourth-grade class on electricity, safety and energy conservation
2. 2004: Fifth-grade water conservation class
3. 2011: Content/curriculum updated to keep current with the trends in science education, align with State Education Standards



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Classroom Visits

1. Lessons aligned with Next Generation Science Standards
2. Centered around STEM
3. Science Loan Kits – Extend Lesson
4. Age-appropriate
5. Trade books donated to schools



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Program Participation

Program Categories	2012	2013	2014	2015	2016	2017	Total
Presentations	100	156	144	171	168	157	1386
Presentation Participants	6,719	8,038	7,572	11,989	7,300	14,403	56,021
Loaned Science Kits	45	124	87	45	78	48	427
Science Kit Participants	1,592	4,281	2,833	1,277	2,220	1,295	13,498
Total Presentations and Loaned Kits	145	280	231	216	246	205	1323
Total Program Participation	8,311	12,319	10,405	13,266	9,520	15,698	69,519

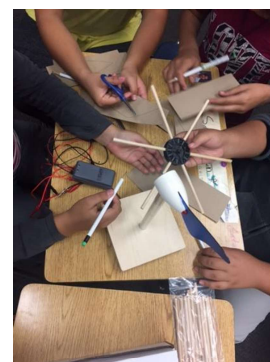


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Classroom Visit Expansion

1. 2017: Third-grade watershed pollution class
2. 2017: Sixth-grade wind energy/ engineering class



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Community Events

1. STEP Conference
2. Councilmember Perry's Books with Friends
3. Big Brothers Big Sisters of the Inland Empire
4. Project Learning Tree Teacher Workshop



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Community Events

1. Less Water, More Summer Fun – Kathleen Gonzales Waterwise Garden
2. Science, Technology, Engineering, and Mathematics Public Utilities Learning Labs (STEM PULL)
3. Library Summer Program



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Future Program Development

1. First annual engineering essay contest for high school students
2. Addition of community helpers unit for early elementary students – “A Day in the Life of a Lineman”
3. Green Schools – Middle School
4. Teacher workshops



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2018 Engineering Essay Contest

1. For high school students
2. Topic: How to continue to provide clean, reliable drinking water as Riverside's population grows
3. Engineering staff review of submissions
4. Cash prizes



Attention Riverside High School Students
Here's a great chance to write and submit an original essay responding to the topic below. Winners will be awarded cash prizes on overall writing skill, organization, originality, understanding of Riverside's unique water supply, and incorporation of technical information.

Winners & Awards

Riverside Public Utilities will present three cash awards:

1ST PLACE	\$600
2ND PLACE	\$400
3RD PLACE	\$200

TOPIC

How can RPU continue to provide clean, reliable drinking water as Riverside's population grows?

Any of Riverside staff will answer as a volunteer. Decision of the judges are final. There will be three winners chosen.

Timeline: Nov 12 Submission Portal Opens
Dec 28 Submission Portal Closes
Feb 22 Winners Announced

Submission: All essays must be submitted online via the Riverside Public Utilities website or RiversidePublicUtilities.com.

FINAL DEADLINE TO SUBMIT COMPLETED ESSAYS IS ON FRIDAY, DECEMBER 28, 2018 AT 5 PM

For complete list of rules and guidelines, visit RiversidePublicUtilities.com/Education

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Objectives

1. Promote energy and water conservation
2. Recognize RPU as a unique community asset
3. Develop local workforce



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Staff Recommendations

That the Board of Public Utilities:

1. Receive and file update on the Riverside Public Utilities' School Education Program; and
2. Approve creation of a new, annual engineering essay contest with cash awards totaling \$1,200.

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