

***MCEC Legislative Day***  
***February 6, 2018***  
***Renewable Portfolio Study (HB1414)***  
***Update***

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Power Plant Research Program

# HB1414



- “PPRP shall conduct a study of the RPS... The study shall be a comprehensive review of the history, implementation, overall costs and benefits and effectiveness of the RPS in relation to the energy policies of the state.”
- Interim / Final Report due December 1, 2018 / 2019 to Governor, Senate Finance Committee, and House Economic Matters Committee

# Subjects to be Addressed



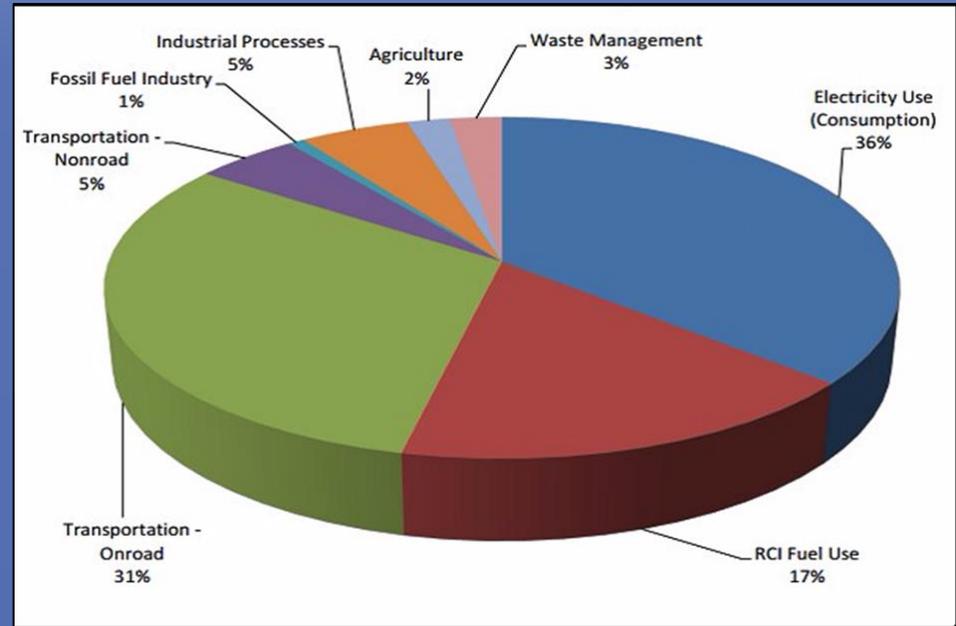
The role & effectiveness that the RPS may have in reducing the carbon content of imported electricity & whether... complementary policies or programs could help address carbon emissions associated with electricity imported into the State.

In 2016,  
Maryland  
imported  
43% of its  
electricity

# Subjects to be Addressed

The role of in-State clean energy in achieving greenhouse gas emission reductions and promoting local jobs and economic activity

Maryland 2014 GHG Emissions by Sector



Source: MDE

# Subjects to be Addressed



The net environmental and fiscal impacts that may be associated with long-term contracts (LTCs) tied to clean energy projects including... ratepayer impacts... and whether the use of LTCs incentivized new renewable energy generation development.

# Subjects to be Addressed

What industries are projected to grow, and to what extent, as a result of incentives associated with the standard



# Subjects to be Addressed

Additional opportunities that may be available to promote local job creation within the industries that are projected to grow as a result of the standard



# Subjects to be Addressed



Whether the public health and environmental benefits of the growing clean energy industries supported by the standard are by equitably distributed across... environmental justice communities

# Subjects to be Addressed

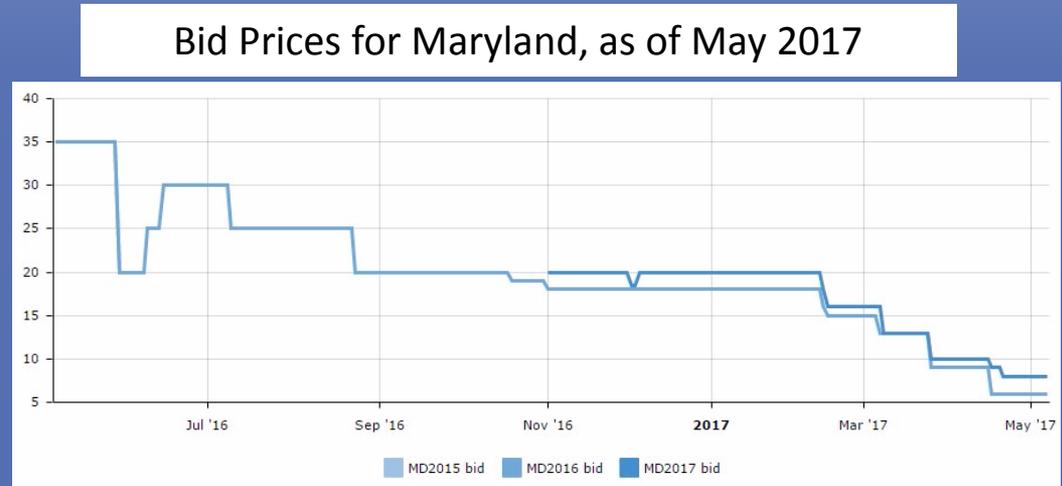


System flexibility that the State would need under future goals... including the quantities for peak and ramping that may be required.

# Subjects to be Addressed



An assessment of any change in Solar REC prices over the immediate 24 months preceding the Interim Report



# Subjects to be Addressed

## Work in Progress



Whether the State is likely to meet its existing goals... & if increased, ...if adequate supply to meet added demand for credits

Whether the State is able to meet current & potential future targets w/o inclusion of certain technologies.

### PPRP

*2017 Inventory of  
Renewable  
Energy  
Generators  
Eligible for the  
Maryland RPS*

*Draft  
Spring 2017*

# Subjects to be Addressed Work in Progress



How energy storage technologies should be addressed.

A screenshot of a web browser displaying the Maryland Department of Natural Resources website. The browser's address bar shows the URL "dnr.maryland.gov/pprp/Pages/WorkGroup.aspx". The website header includes the department's logo and a search bar. A green navigation bar contains links for HOME, LANDS, WATERS, PARKS, FISHING, HUNTING, BOATING, WILDLIFE, and TREES. The main content area is divided into two columns. The left column is titled "Power Plant Research Program" and contains a list of links: Power Plant Home, Power Plant Research Advisory Committee, Renewable Portfolio Standard Work Group, Energy Storage Work Group, Power Plants in Maryland, Power Plant Licensing, Other Program Activities, Projects Under Review, Request for Proposals, Smart Siting, and Contact the Program. The right column is titled "Maryland Power Plant Research Advisory Committee Energy Storage Work Group" and contains a paragraph of text: "The Maryland General Assembly passed legislation during the 2017 legislative session that directs Power Plant Research Program to prepare a report addressing energy storage technologies ( House Bill 773 Clean Energy – Energy Storage Technology Study). The study is to include economic, regulatory, and engineering aspects of storage technologies with particular emphasis on incentivizing and using such technologies in Maryland." Below this text is a list of four items: Energy Storage Work Group Members, Meeting Schedule, Agenda/Presentations/Meeting Minutes, and Contact Information and Public Comment. The browser's taskbar at the bottom shows the Windows search bar, several application icons, and the system clock displaying "12:10 PM 2/4/2018".

# RFP for the RPS Study



The screenshot shows a web browser window with the URL [dnr.maryland.gov/pprp/Pages/RFP.aspx](http://dnr.maryland.gov/pprp/Pages/RFP.aspx). The page header includes navigation links for "Maryland.gov", "Phone Directory", "State Agencies", "Online Services", and a "Translate" button. The main banner features the Maryland Department of Natural Resources logo and a search bar with the text "Enter search term". Below the banner is a green navigation menu with links for "HOME", "LANDS", "WATERS", "PARKS", "FISHING", "HUNTING", "BOATING", "WILDLIFE", and "TREES".

## Power Plant Research Program

- > [Power Plant Home](#)
- > [Power Plant Research Advisory Committee](#)
- > [Renewable Portfolio Standard Work Group](#)
- > [Energy Storage Work Group](#)
- > [Power Plants in Maryland](#)
- > [Power Plant Licensing](#)
- > [Other Program Activities](#)
- > [Projects Under Review](#)
- > [Request for Proposals](#)
- > [Smart Siting](#)
- > [Contact the Program](#)

## Request for Proposals

### RFP-K00R8400008 - Maryland Renewable Energy

The Department of Natural Resources Power Plant Research Program is issuing this Request for Proposals (RFP) to select a contractor to conduct a study of Maryland's Renewable Energy Portfolio Standard (RPS).

- [RFP Maryland Renewable Energy](#)
- [Letter to Potential Offerors](#)
- [Financial Proposal Form](#)
- [Questions and Answers from Interested Parties - Updated 10/31/17](#)
- [Meeting Sign-in Sheet](#)

The Windows taskbar at the bottom shows the search bar with "Type here to search", several application icons, and the system tray with the date "2/4/2018" and time "11:58 AM".

# PPRAC Working Group



A screenshot of a web browser displaying the Maryland Department of Natural Resources website. The browser's address bar shows the URL "dnr.maryland.gov/pprp/Pages/RPS-WorkGroup.aspx". The website header includes the department's logo, a search bar, and social media icons. A green navigation bar contains links for HOME, LANDS, WATERS, PARKS, FISHING, HUNTING, BOATING, WILDLIFE, and TREES. The main content area is split into two columns. The left column is titled "Power Plant Research Program" and contains a list of links: Power Plant Home, Power Plant Research Advisory Committee, Renewable Portfolio Standard Work Group, Energy Storage Work Group, Power Plants in Maryland, Power Plant Licensing, Other Program Activities, Projects Under Review, Request for Proposals, Smart Siting, and Contact the Program. The right column is titled "Maryland Renewable Portfolio Standard (RPS) Study Work Group" and contains a paragraph of text: "The Maryland General Assembly passed legislation (HB1414) during the 2017 legislative session that directs Power Plant Research Program to conduct a study addressing the Renewable Portfolio Standard. Specifically, Power Plant Research Program is directed to conduct a comprehensive review of the history, implementation, overall costs and benefits, and effectiveness of the Maryland Renewable Portfolio Standard in relation to the energy policies of the State of Maryland, including the availability of all clean energy sources at reasonable and affordable rates, and including in-state and out-of-state renewable energy options." Below the text is a list of four items: Work Group Members, Study Status, Meeting Schedules/Agendas/Presentations/Minutes, and Contact Information and Public Comments. The browser's taskbar at the bottom shows several open applications and the system clock indicating 12:00 PM on 2/4/2018.

# Thank You!



Website: [dnr.maryland.gov/pprp](http://dnr.maryland.gov/pprp)

Email: [pprp.dnr@maryland.gov](mailto:pprp.dnr@maryland.gov)

Phone: 410-260-8660