

# The Energy Source

Issue 4: Fall/Winter 2015

Welcome to Issue 4 of *The Energy Source*, an online newsletter published twice a year by the Department of General Services (DGS) Office of Energy Performance & Conservation. The newsletter serves to keep agencies updated on State energy news and developments at DGS and among peer agencies. Thank you for reading, and please share with us any feedback you might have.



## IN THIS ISSUE

New DGS Staff

Maryland Business

Energy Planning

Featured: MDE

Energy Purchasing

EnergyCAP Report

## STATE ENERGY DATABASE TRAINING

*Graphing your Agency's Energy Usage* webinar will take place on **December 9, 2015 at 2:00 p.m.** This training is geared toward Agency Energy Coordinators who need to create graphs to include in the Agency Energy Plans. [Register here.](#)

Interested in receiving personalized training? There are opportunities for on-site training at your office! Contact [Emily Soontornsaratool](#).

## DGS Energy Welcomes New Staff!

The DGS Office of Energy Performance & Conservation is very pleased to announce the recent appointment of a new Director of Energy and the addition of 2 new staff members.



Barry Powell,  
Director of Energy

**Barry Powell** accepted the position of Director of Energy in September. Barry first joined the Energy team in 2013 as an Energy Engineer/Project Manager to coordinate Agency Energy Planning initiatives in conjunction with the Maryland Energy Administration and work on Energy Performance Contracts (EPCs). Prior to joining DGS, Barry worked as an Engineering Support Contractor for the Federal Government. He has over 20 years of experience in chemical engineering, manufacturing, mechanical contracting and energy engineering. Barry received his B.S. in Chemistry from Norfolk State University.



Randolph Wilson,  
Energy  
Administrator

**Randolph Wilson** joined the Energy team in August as an Energy Administrator and is responsible for the Agency Energy Plans for various state agencies. Prior to employment with DGS, he was involved in different energy projects that primarily focused on converting landfills into gasification plants to generate new sources of energy from trash/waste. Randolph received his B.S. in Political Science and his M.S. in Public Administration from Florida A&M.

**Richard Louis** joined the Energy team in October as an Energy Engineer/Project Manager. He manages Energy

## ACEEE STATE ENERGY SCORECARD

Maryland ranks 7th in the nation for energy efficiency in the ACEEE State Energy Scorecard for 2015. Maryland has ranked in the top 10 states for five consecutive years. This year, Maryland is also recognized as a "most improved" state. You can read the full scorecard online [here](#).

## DOE'S BETTER BUILDINGS CHALLENGE

Check out the State of Maryland's Progress in the DOE Better Buildings Challenge [here](#).

## EPA'S BATTLE OF THE BUILDINGS

Follow DGS' participation in the EPA's National Buildings Competition [here](#).

## FY15 ENERGY DATA REPORTING

With Fiscal Year 2015 closed out, DGS has been working diligently to report on energy cost and usage for all State facilities. The cooperation of State agencies is integral to this effort! DGS looks forward to reaching out to agencies that have low energy data compliance or unusually high usage to find solutions.



Richard Louis,  
Energy Engineer /  
Project Manager

Performance Contracts (EPCs). He has 25 years of experience in utility engineering and construction and brings expertise in solar energy (thermal and PV), hydraulics and energy efficiency analysis. Richard received his B.S. in Civil Engineering from Rutgers University and his M.S. in Environmental Engineering from Virginia Tech. He is a licensed Professional Engineer (P.E.).

Meet the whole team: [DGS Energy Org Chart](#)

## Maryland is Open for Business



AK Awad presenting at Business Opportunities Summit

Maryland held its first **Business Opportunities Summit** on Tuesday, November 10, 2015. The event, hosted by DGS and MDOT, was attended by over 400 businesses who received valuable information about current and future contracting opportunities with the agencies. Barry Powell, Akrem Awad, and Emily Soontornsaratool represented the DGS Energy Office to discuss contract opportunities.

## Agency Energy Planning

Randolph Wilson is working with agencies to finalize their Agency Energy Plans. To date, 23 plans have been submitted. Contractors at JMT and Entech have been supporting these efforts. BITHENERGY contractors are working to reconcile the data that agencies include in their plans with what is in the State Energy Database and update the database to reflect the most current data. We appreciate agencies' ongoing cooperation in this effort! Any questions about Agency Energy Plans may be directed to Randolph Wilson at [Randolph.Wilson@maryland.gov](mailto:Randolph.Wilson@maryland.gov) or (410) 767-4439.

## Featured Agency: MDE

The **Maryland Department of the Environment (MDE)** is serious about energy efficiency and finding savings! MDE recently retrofitted lighting at two facilities to take advantage of

Questions about Energy Data reporting can be directed to [Emily Soontornsaratool](#).

---

## ENERGY COORDINATOR RESOURCES

[Energy Planning materials](#)

[Free energy manager tools](#)

---

## CONTACT US

Emily Soontornsaratool  
Newsletter Editor  
Energy Data Manager  
[Emily.Soontornsaratool@maryland.gov](mailto:Emily.Soontornsaratool@maryland.gov)  
(410) 767-3061

Barry Powell  
Director of Energy  
[Barry.Powell@maryland.gov](mailto:Barry.Powell@maryland.gov)  
(410) 767-4375

Randolph Wilson  
Energy Administrator,  
Energy Planning  
[Randolph.Wilson@maryland.gov](mailto:Randolph.Wilson@maryland.gov)  
(410) 767-4439



[DGS Office of Energy](#)

utility rebate programs as well as cut their energy usage and utility bills. The Montgomery Park complex and the Annapolis Field Office were both retrofitted with energy efficient light fixtures and occupancy sensors.



High efficiency 28 watt T-8s in office space

Office spaces were upgraded from old four-bulb 128 watt fixtures to two-bulb 56 watt T-8 florescent fixtures. The new T-8 fixtures feature lower mercury levels, lower wattage and increased life of 42,000 hours. Garage and warehouse spaces were upgraded to LED fixtures, which contain zero mercury and have a predicted life of over 100,000 hours. Occupancy sensors were installed so lights will shut off automatically when a space is not in use.



Old 400 watt fixtures in warehouse/garage space



New 198 watt LED High Bays in warehouse/garage space

Altogether, over 2,700 light fixtures were replaced and over 100 occupancy sensors installed. Total utility rebates from BGE amounted to over \$188,000, ensuring both projects are paid for through savings in approximately one year. Additionally, the retrofit will allow an additional annual savings of \$65,210 and 581,458 kWh per year.

Read more about MDE's energy efficiency efforts [here](#).

## Energy Purchasing & Portfolio Management

As the primary procurement agency for the State of Maryland,

DGS is responsible for energy purchasing and portfolio management for State facilities. This year, DGS has seen significant savings as a result of procurement and demand response activities.

### FY2015 Electricity Purchasing

	kWh	Cost (\$)	Unit Rate (\$/kWh)*
Large Accounts (Block & Index)	809,942,974	\$43,331,949	\$0.0535
Small Accounts (Fixed Rate)	367,759,663	\$21,694,143	\$0.0590
Renewables (Wind & Solar PPAs)	231,107,936	\$21,928,184	\$0.0949
FY15 Total	1,408,810,573	\$86,954,276	\$0.0617

*\*Cost and unit rates for commodity only, excluding charges for capacity, transmission, administrative and management fees (DGS and USM accounts)*

**Avoided Cost of Block & Index account purchases compared with Reverse Auction Fixed Rate accounts (FY2015): \$4,447,132**

### FY2015 Demand Response

PJM Emergency Load Curtailment Program Payments (FY2015): \$32,230

Voluntary Generator Operations Results (Summer 2015):

- Total hours of operation: 144
- Total generation: 280 Megawatt-hours
- Net real time price savings: \$11,444

A full description of DGS' Energy Purchasing and Demand Response functions is available on the [DGS website](#).

## ■ Featured EnergyCAP Report: BL26

*The Maryland State Energy Database tracks energy cost and consumption for all State facilities. This section features a useful report or database feature that might be helpful to the over 300 registered database users across Maryland. Read more about the State Energy Database [here](#).*

The Executive Energy Profile by Fiscal Year Report (or BL-26) includes a multi-year month-by-month line graph and a data table showing summary energy usage. This report will show a high-level summary of usage, so it is great for reporting an agency's total energy use. It can also be adjusted to show the usage for a region or complex.

To run the BL26 report, please visit [web.energycap.com](http://web.energycap.com) and login with your user credentials. Then navigate to the Reporting Module. The BL26 can be found under "Billing Reports." Highlight the report name and select "Continue."

The screenshot shows the 'Reports' page in the Maryland Energy Reporting System. The left sidebar lists various report categories, with 'Billing Reports' highlighted. The main content area displays a list of reports, with 'BL26 - Executive Energy Profile Fiscal Year' selected. A preview window on the right shows a line graph titled 'BL26 - Executive Energy Profile Fiscal Year' with a 'Continue' button next to it.

Set your filters on your report. You will want to make sure that "Bill is from Vendor" is set to "yes" for any report. You also want to be sure that "Bill is Void" is always set to "no" to ensure you aren't including any voided bills.

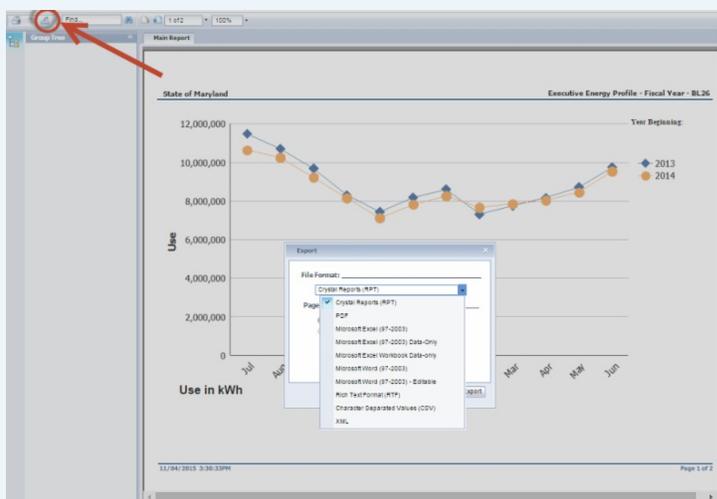
The screenshot shows the filter configuration for the 'BL26 - Executive Energy Profile Fiscal Year' report. The 'Current Filters' section is highlighted, showing the following settings:

Filter Name	Operator	Value
Bill is from a Vendor	Equals	Yes
Bill is Void	Equals	No
Billing Period	Between	Jul 2013 And Jun 2015
Commodity Code	Equals	ELECTRIC
First Month (01 -12)	Equals	7
Topmost Place Code	Equals	DGS

The 'Additional Filters' section is also visible, with fields for Account Code, Account Name, Batch Code, Bill Entered By, Bill Entry Date, Check Date, and Check Number.

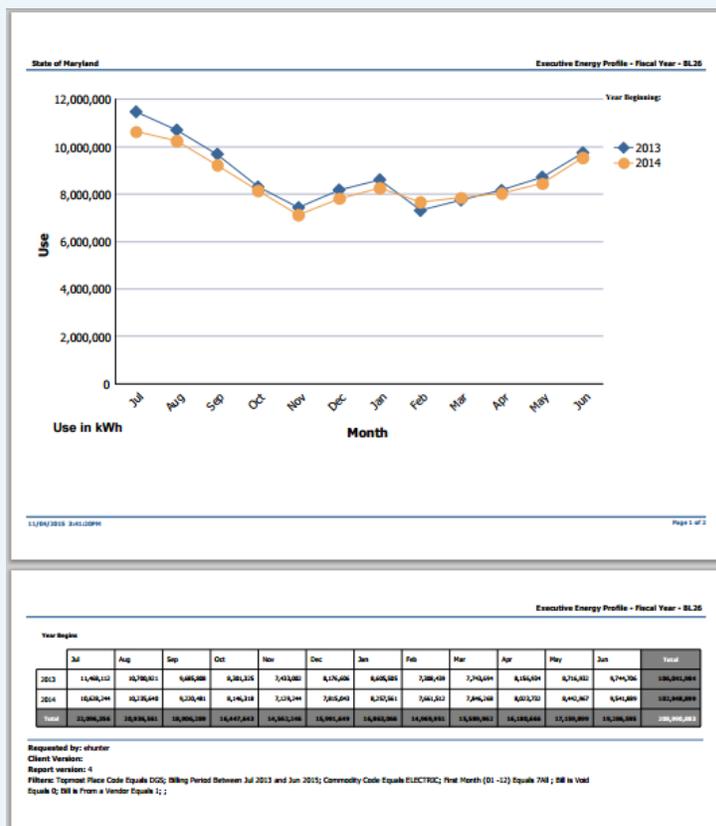
You can adjust the billing period, commodity that you wish to report on and the topmost place. In the example below, the report will be run for all electricity usage for the entire agency of DGS.

*TIP: Set the filter for First Month as equals 7 to tell the database that the Fiscal Year starts in July. The report will then show July as the first month.*



After setting your filters, click "Run Report." You will see a preview of the results. To export the results, click the icon in the upper left of the screen and choose the format you would like (e.g., Excel Data Only or PDF).

Sample report:



A live demonstration of the BL26 will be provided in a webinar by contractors at BITHENERGY. Register [here](#).