



6th Annual Green Jobs Forum  
**JOBS FOR A LOW-CARBON,  
CIRCULAR ECONOMY**

August 22, 2019

Forum: 4:30 - 9:00 pm PLUS  
Workshops: 8:30 am - 4:30 pm

Metropolitan Washington  
Council of Governments  
777 North Capitol St NE  
Washington, DC 20002

Register at: [LeadersinEnergy.org](http://LeadersinEnergy.org)



Metropolitan Washington  
Council of Governments

# Welcome

**#LEGREENJOBS & #LECONNECT**

**@leadersinenergy**

Network: **COG\_GUEST**

Password: **cogregionforward**



**Sustainable Communities**



**Green Economy and Jobs**



**Multigenerational Leadership  
and Talent**



**Leaders in Energy**

# **Building a community of leaders to advance clean energy and sustainable solutions**

*Join us on-line and at our events on cleantech, green  
jobs and finance, and leadership at:*

**[leadersinenergy.org](http://leadersinenergy.org)**

# Tonight's Program

- **4:30** Exhibit Tables Open for Green Jobs Forum, Networking and Refreshments
- **6:00** Welcoming Remarks - Leaders in Energy and MWCOC
- **6:15** Jobs for the Low-Carbon, Circular Economy and Other Sustainability Jobs in the DMV Region (and Charlotte, NC) (Panel 1)
- **7:05** Getting Green Jobs! Leaders in Energy Members Who Have Landed or Created Jobs - Tips and Advice (Panel 2)
- **7:50** Networking Connections - a great way to connect with others at the event in your field of interest
- **8:00** - Resume Exhibits and Networking
- **8:30** Drawing for Door Prizes
- **9:00** Event Adjourns

# Green Career Workshops 1.0 and 2.0



**Beth Offenbacher, PhD**  
HR Consultant and Coach  
Director of Training and  
Development  
Leaders in Energy

## Networking Workshop



**Spencer Schecht,**  
Membership Experience Manager,  
Smart Electric Power Alliance

# Thanks to Our Venue Host



*The MWCOCG is an independent, nonprofit association that brings area leaders together to address major regional issues such as helping to achieve regional greenhouse gas emissions reductions, increasing resiliency, and improving education and outreach in the region.*

**Refreshment Sponsors:**  
**Wegmans and WeThePizza**



**Media Sponsor**





# Thanks to Our Exhibitors



# Our Green Jobs Forums Started in 2014 – Building Connections & Helping People!

Levicks -  
2014 and  
2015



Arlington  
County  
Economic  
Development-  
2016

**Green Jobs**  
**August 18th, 6-8:30 pm**  
**1100 N. Glebe Road, Suite 1500**  
**Arlington, VA 22201**



# 4<sup>th</sup> Annual Green Jobs Forum at DC SEU - August 17, 2017



# 5<sup>th</sup> Annual Green Jobs Forum at Metropolitan Washington Council of Governments - August 16, 2018





# Great Stories of Our Leaders in Energy Members

Landing green jobs



Collaborating on projects

Connecting People  
in business and  
entrepreneurship

Gaining specialized  
industry knowledge



Gaining skills

Making friends and building relationships

Being inspired by sustainable solutions taking place around  
DC, US, and Globe

# Panel 2: Getting Green Jobs! Leaders in Energy

## Members Who Have Landed or Created Jobs - Tips and Advice



**Spencer  
Schecht,**  
Smart  
Electric  
Power  
Alliance



**Rodger Correa**  
International  
Fund for  
Animal Welfare  
(IFAW)



**Barbara  
Englehart,**  
ICF



**David Gelman,**  
Vermont  
Energy  
Investment  
Corporation  
(VEIC)



**Charles  
Girard,**  
World  
Bank

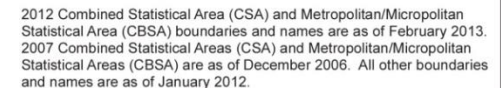


**Erin  
McGoey,**  
Last Call  
for Food



Leaders in Energy

# +++++++ How Can We Build A Green Economy (Low-Carbon, Circular Economy) in Our Region?





# Facing Some Big Wicked Problems - Increasing Planetary “Wake-Up Calls” – Impacts in Our Region

Month of rain in an hour: Flooding hammers Washington region  
July 8, 2019



<https://www.syracuse.com/us-news/2019/07/month-of-rain-in-an-hour-flooding-hammers-washington-region-photos.html>

Updated: Arlington County  
Declares Emergency After  
Major Flash Flooding (July  
10, 2019)



<https://www.arlnow.com/2019/07/10/arlington-county-declares-disaster-after-flash-flood-emergency/>



# Despair Won't Solve Climate Change

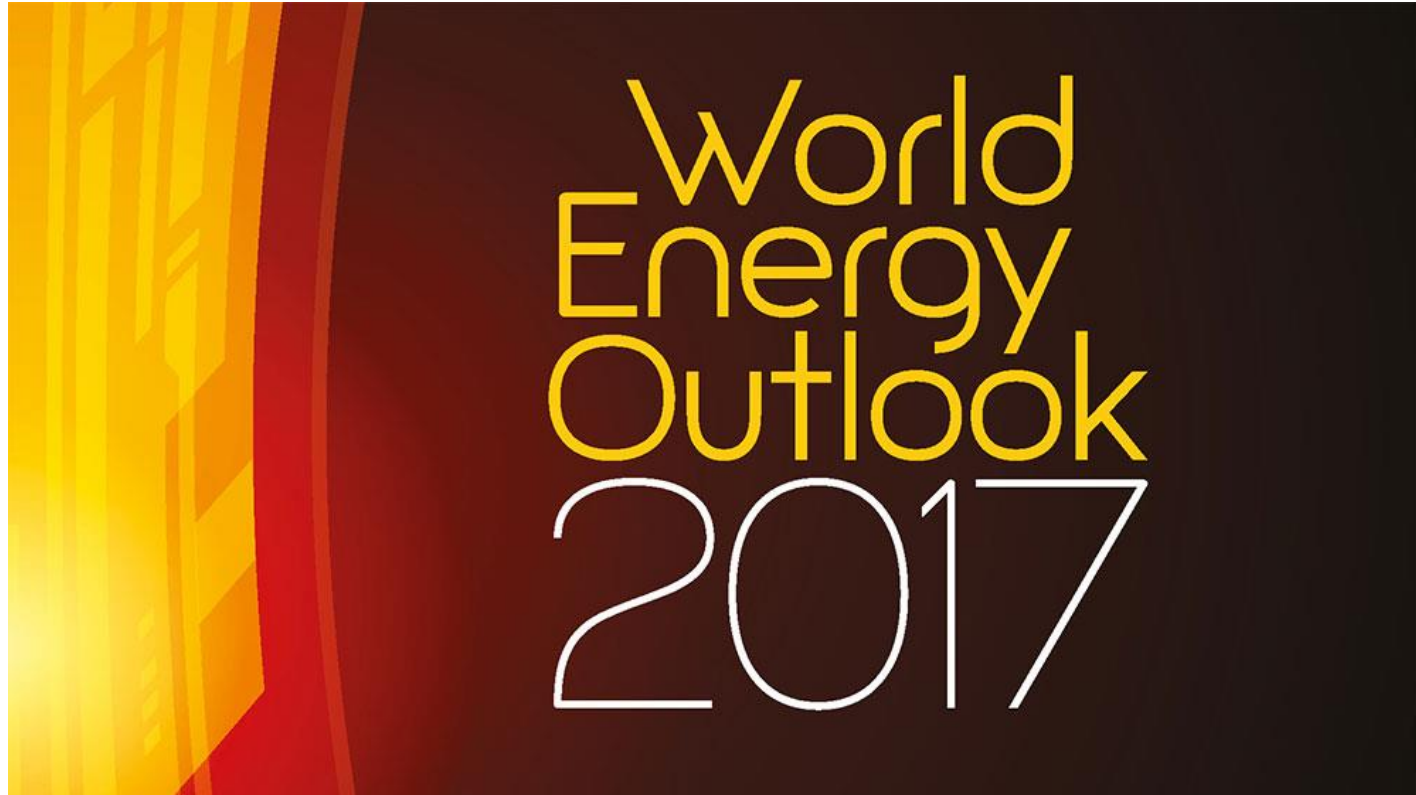
**“Only smart collective action, led by courageous people working with intelligent and well-funded organizations can mount the necessary effort to keep our Earth from peril. We have won these sorts of battles before, even if the threats seem larger than ever.”**

*Bruce Beehler, an ornithologist and naturalist, is the author of 12 books, the most recent being “Natural Encounters: Biking, Hiking, and Birding Through the Seasons”*

Washington Post, August 18<sup>th</sup>, 2019



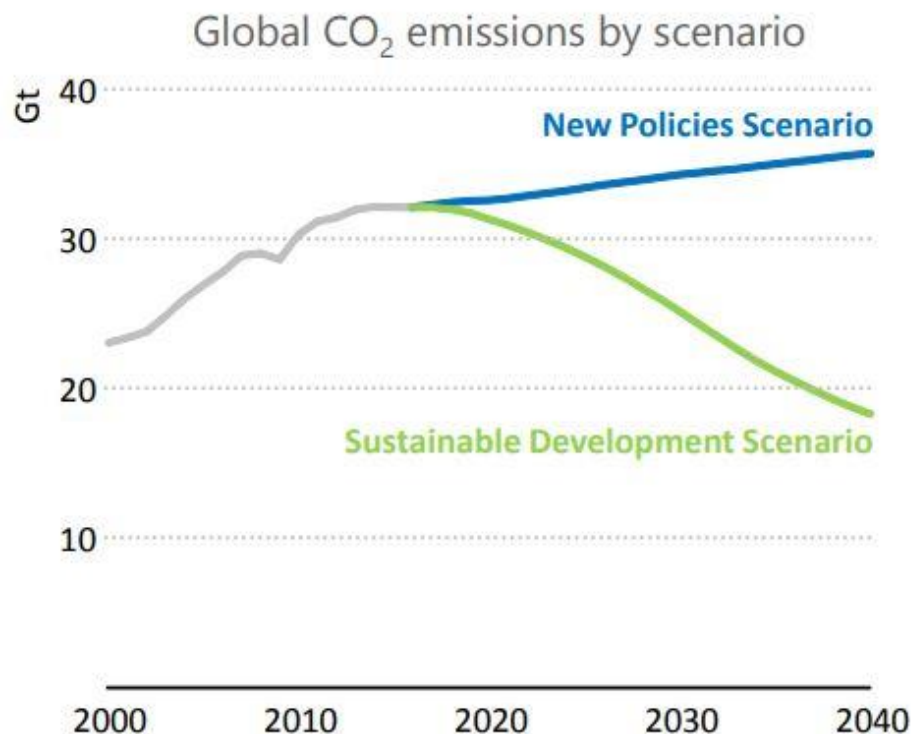
# International Energy Agency World Outlook 2017



An autonomous intergovernmental organization based in Paris established in the framework of the Organization for Economic Co-operation and Development (OECD) in 1974 in the wake of the 1973 oil crisis.

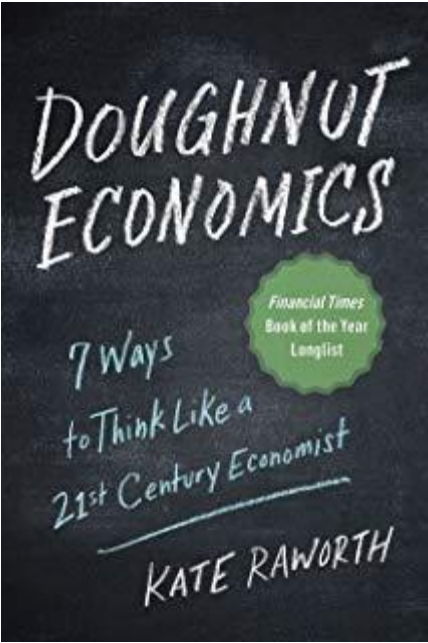
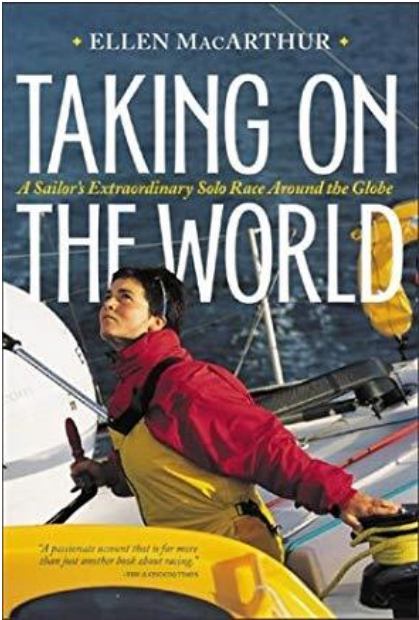
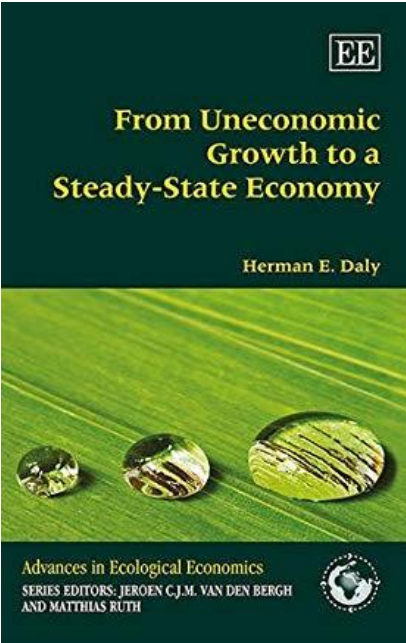
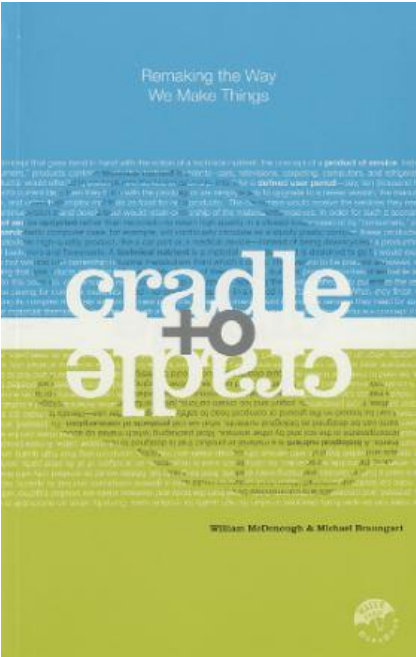
# A new strategy for energy & sustainable development

World  
Energy  
Outlook  
2017



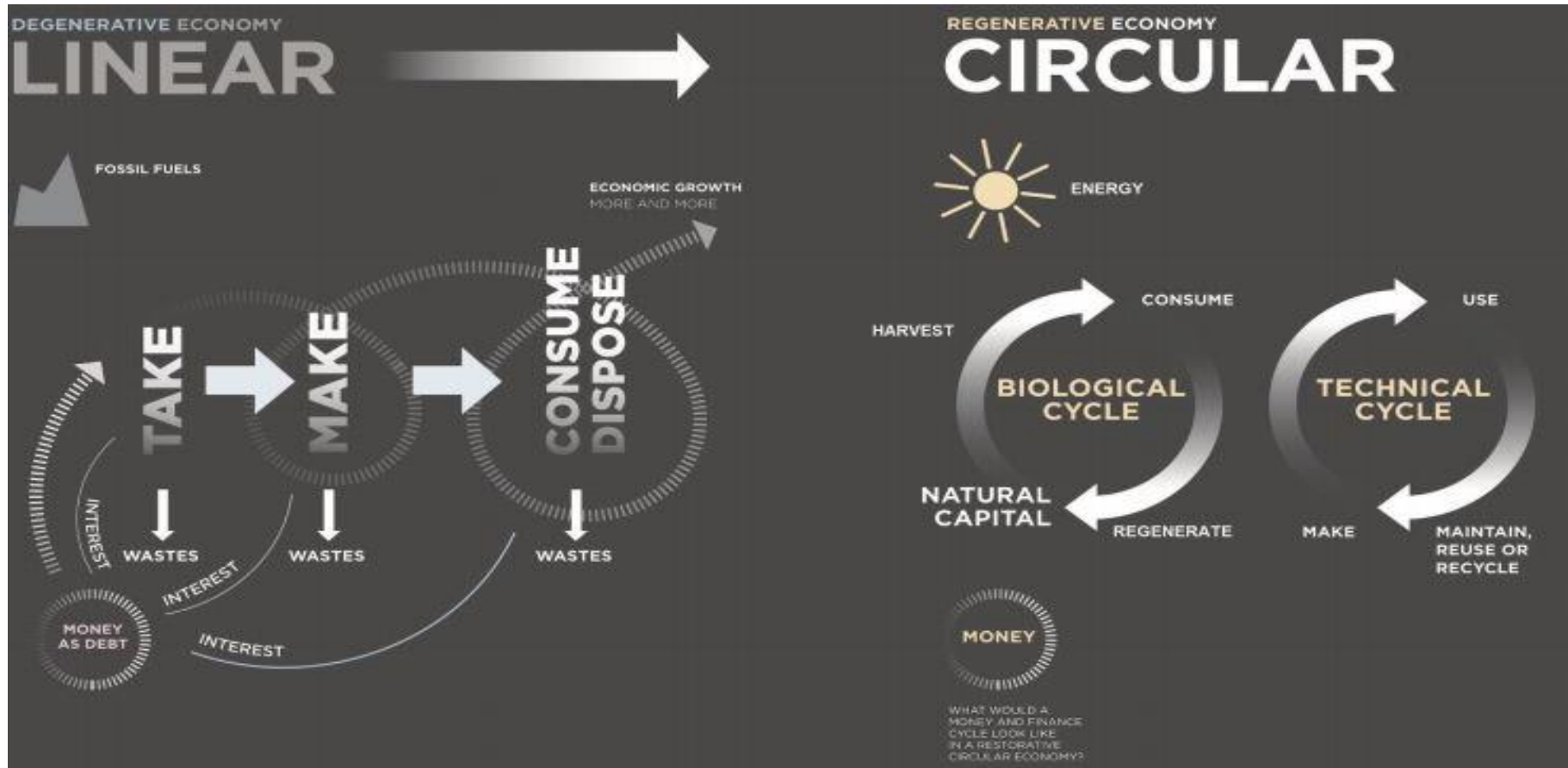
*The Sustainable Development Scenario reduces CO<sub>2</sub> emissions in line with the objectives of the Paris Agreement, while also tackling air pollution and achieving universal energy access*

# Rethinking Our 21<sup>st</sup> Century Economy and Systems





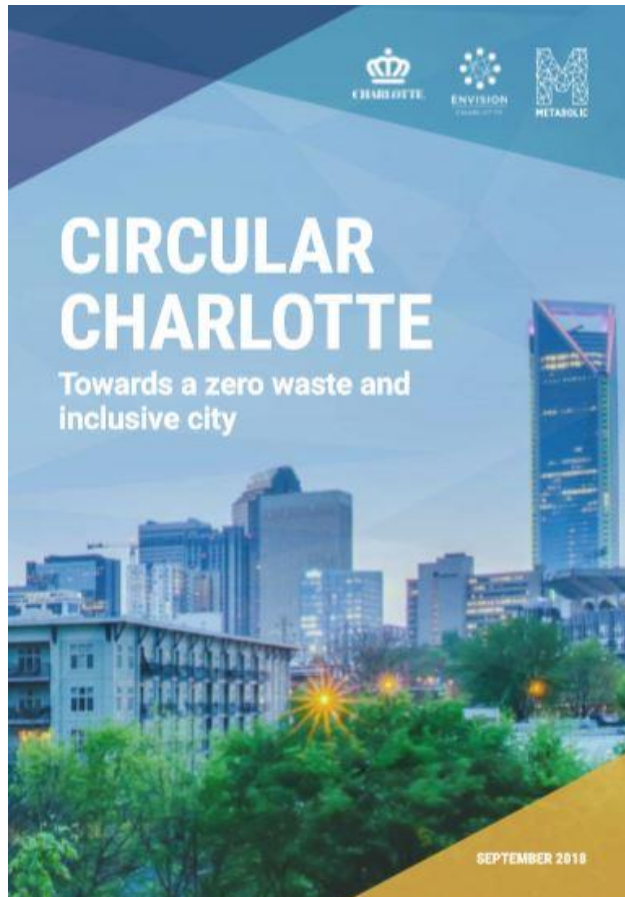
# What is the Circular Economy?



- A system that emulates nature where nothing is wasted and waste from one process is the resource for another.
- Safe cycling of goods and services in either the technosphere (technical cycle) or biosphere (biological cycle) as valuable nutrients rather than the current linear “Take-Make-Dispose” system.

Source: Graphic from <http://circulatenews.org/2015/08/the-circular-economy-where-does-money-fit-in/>

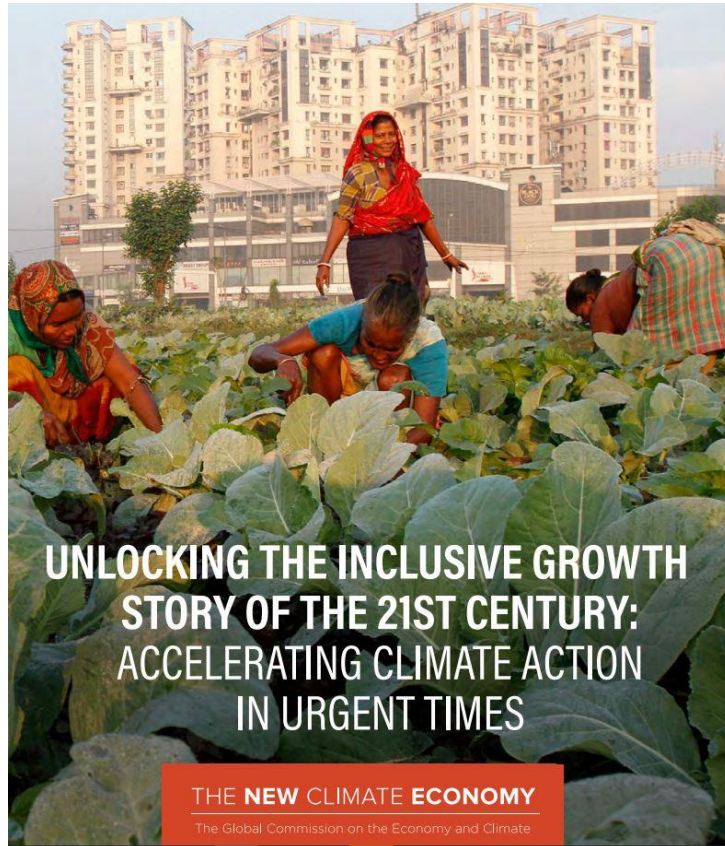
# Job Creation in Charlotte, NC



## JOB CREATION POTENTIAL per 10,000 tonnes of used goods



# Potential for Creating A \$26 Trillion New Clean Tech/Climate Global Economy



- The Report highlights opportunities in five key economic systems – **energy, cities, food and land use, water, and industry (circular economy)**. It demonstrates that ambitious action across these systems could deliver net economic gains compared with business-as-usual by:
- Generating over 65 million new low-carbon jobs in 2030, equivalent to today's entire workforces of the UK and Egypt combined.
- **Yielding a potential direct economic gain of US\$26 trillion through to 2030.**

# Panel 1: Jobs for the Low-Carbon, Circular Economy and Other Sustainability Jobs in the DMV Region (and Charlotte, NC)



**Janine Finnell,**  
Executive  
Director,  
Leaders in Energy



**Tommy Wells**  
Director,  
District of  
Columbia,  
Department of  
Energy and  
Environment  
Services



**Sam Beirne,**  
Energy Program  
Manager,  
Maryland Energy  
Administration



**Alex Cooley,**  
Manager,  
Labor Market  
Information  
Services,  
Northern  
Virginia  
Community  
College



**Emily Yates**  
Founder +  
Principal,  
Urban Revolution  
Group,  
Charlotte, NC



# Advancing Clean Energy & Sustainable Solutions

Sharing Best Practices & Success Stories in the LE Global Action Network

## *Green Jobs/Careers*

Connecting talent with green employers

## *Green Marketplace*

Connect buyers & sellers to conduct transactions for a more livable planet

## *Green Finance*

Connect public and private sources of funding to finance the transition to a clean economy

**Building  
Sustainable  
Communities**



*Recognize and Grow Multigenerational  
Leadership & Talent*



**Leaders in Energy**

# Connecting People To Accelerate and Scale Clean Energy and Sustainable Solutions



Leaders in Energy presence in Ten+ US Metro areas, 103+ countries (24 countries with 7 or more members)

# Leaders in Energy's Circular Economy Working Group Mission Statement

The Leaders in Energy Circular Economy Working Group is a regionally-focused group working to implement a circular economy by engaging with supply chains, logistics, food systems, and waste; developing a communications strategy targeting businesses in the DMV area; and building towards implementing CE projects in the DMV.





## **Save the Date**

- **Monthly Circular Economy Working Group (4<sup>th</sup> Wednesday of the month) – Wednesday, August 28, 2019, 6 pm, George Washington University – Marvin Center, Room 401**
- **Event ideas for October? – Let us know**
- **6th annual Four Generations in Clean Energy and Sustainable Solutions Awards and Holiday Event, December 7th**



# Join Our Community of Leaders!



- Connect with our on-line community at [leadersinenergy.org](http://leadersinenergy.org)
- Write a blog article for us.
- Join our discussion group on LinkedIn
- Follow us on our Facebook and Twitter pages)
- Attend our events, working groups, and workshops; and volunteer for an event or serve on our Board and team.

# Thank You to Our Leaders in Energy Volunteers

**Linda Mansdorf, Volunteer Coordinator**

## **Exhibitor/Refreshments Team**

John Gaffigan  
Leo Perez

## **Media**

Miriam Aczel  
Carole Douglas  
Nick Hanson  
Carole McCaffrey  
Sean O'Neil  
Kyle Saukas  
Xavier Vergara

## **Forum**

## **Registration/Welcoming Ambassadors**

Jennifer Rusk  
Linda Mansdorf  
Mike Sternberg  
Leila Peck  
Nicolas Weinbrecht

## **LE Exhibitor**

Bill Brandon  
Carole McCaffrey  
Gabriella Seltzer

## **Volunteers for Workshops**

Sasha Clarke  
Jennifer Lebre  
Nikki Mehta

## **Volunteers at large**

Khadiya Khan  
Jennifer Lebre  
Kimberly Kruse

**Thanks to MWCOG, Doug Abbott**



**Leaders in Energy**

**Thanks for Attending  
and Supporting Our  
Work and Leaders in  
Energy Mission**



**Leaders in Energy**

# Welcoming Remarks



**Steve Walz, Director of  
Environmental Programs**

**Metropolitan Washington  
Council of Governments**



**Leaders in Energy**



# Panel 1: Jobs for the Low-Carbon, Circular Economy and Other Sustainability Jobs in the DMV Region (and Charlotte, NC)



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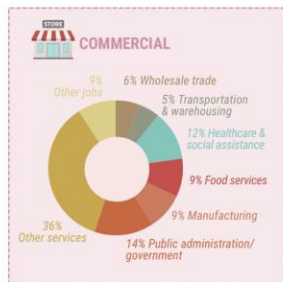
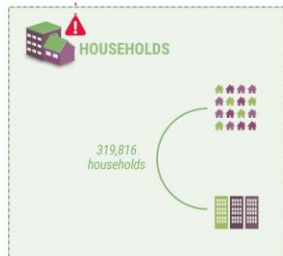


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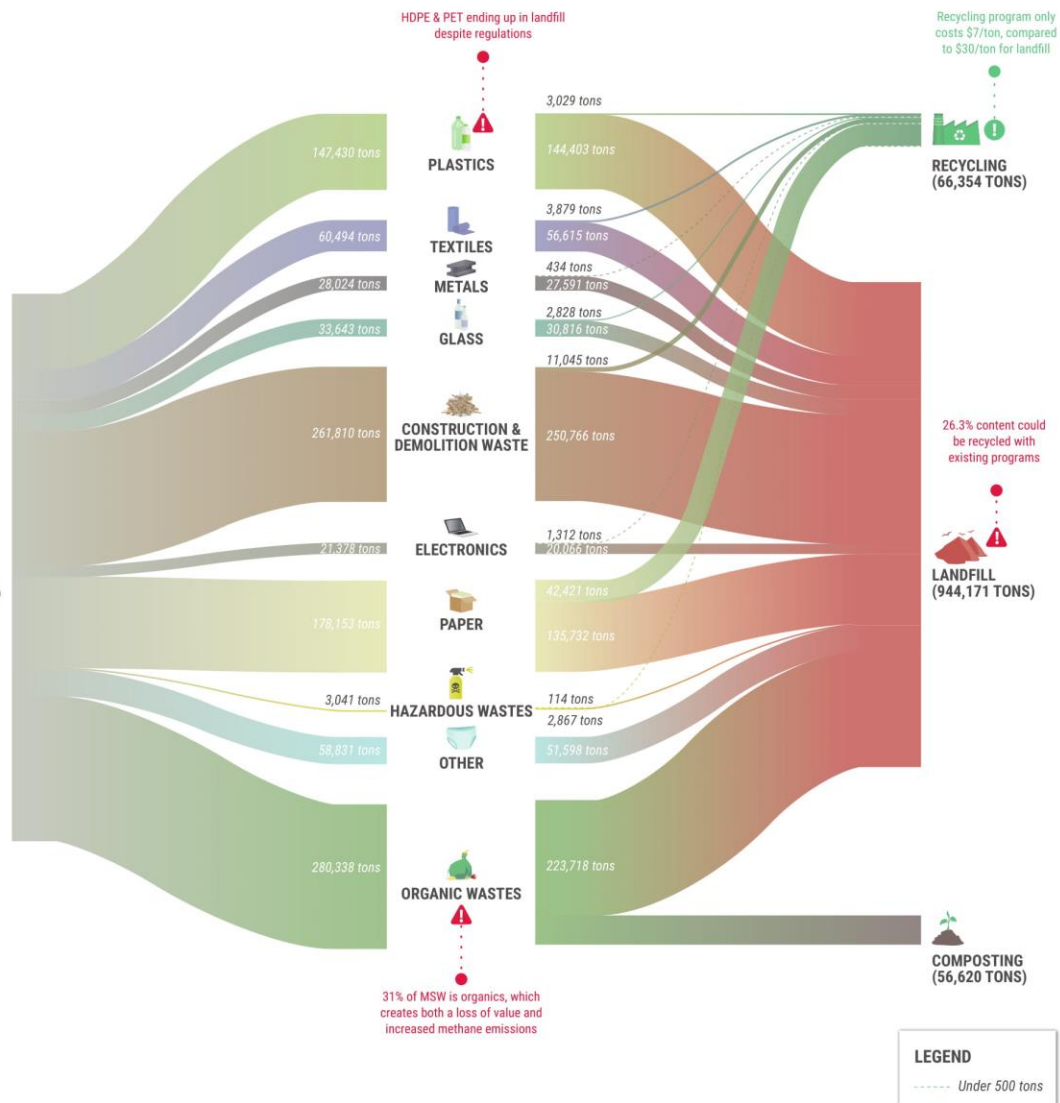


**Emily Yates**  
Founder +  
Principal,  
Urban Revolution  
Group,  
Charlotte, NC

Lower recycling rates for multi-family households



**TOTAL WASTE**  
(1,064,063 TONS)



# **Panel 2: Getting Green Jobs! Leaders in Energy Members Who Have Landed or Created Jobs - Tips and Advice**



**Spencer  
Schecht,**  
Smart  
Electric  
Power  
Alliance



**Rodger Correa**  
International  
Fund for  
Animal Welfare  
(IFAW)



**Barbara  
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**David Gelman,**  
Vermont  
Energy  
Investment  
Corporation  
(VEIC)



**Charles  
Girard,**  
World  
Bank



**Erin  
McGoey,**  
Last Call  
for Food



## **Save the Date**

- **The Utility of the Future (with Resilient Virginia), October 4th**
- **5th annual Four Generations in Clean Energy and Sustainable Solutions Awards and Holiday Event, November 30<sup>th</sup>**
- **Monthly Circular Economy Working Groups, 4<sup>th</sup> Wednesday of the month**



**Thanks for Attending  
and Supporting Our  
Work and Leaders in  
Energy Mission**



**Leaders in Energy**

- A number of people who were in our audience last year as job seekers, are now speaking on our panel to help others in our LE community!
- LE can help people seeking new opportunities in the green space via its green career workshops, and other programs.
- Volunteer for us and build your skills in the direction you want to go and help us at the same time!

# Green Career Workshops 1.0 and 2.0



**Beth Offenbacher, PhD**  
HR Consultant and Coach  
Director of Training and  
Development  
Leaders in Energy

## Networking Workshop



**Spencer Schecht,**  
Membership Experience Manager,  
Smart Electric Power Alliance

# Leaders in Energy Stakeholders and Programs

<b>Mission</b>	Connect Employers + Green Talent/Job Seekers	Connect Suppliers + Market	Connect Innovators + Investors	Connect Thought Leaders + Action Network
<b>Participants &amp; Partners</b>	Employers in Clean Energy and Sustainability Industries  Recruitment Agencies  Sector Professionals University/College Career Services  Apprenticeship Programs  Economic Development Offices	Sector Trade Associations  Chambers of Commerce  Local Suppliers  Project Developers  Regulatory Agencies  Sector NGOs/Non-Profits  City/Municipal Councils	Business incubators  VCs and Financiers  Entrepreneurs	Academic Programs and Research  Industry Executives and Consultants  Sector Technical Experts  Grant Providers  Universities  Think Tanks
<b>Our Programs</b>	Green Jobs Forums, Green Career Workshops, Green Career Momentum, Green Jobs Working Group	Clean Energy & Sustainability Extravaganzas, Utility Industry and Alternative Fuels Events, Circular Economy Workshops, Working Group, & Technical Tours	Green Finance Events	Four Generations of Leaders in Clean Energy Awards, Green Leaders Retreat, Building Consensus Through "Undebate" & Other Industry Sector Events Including Technical Tours



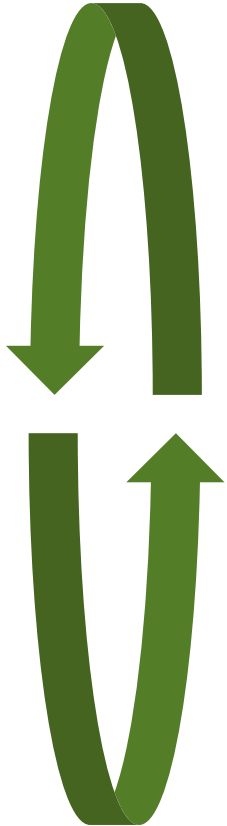
# The Circular Economy's Role in Boosting the Economy and Jobs



- The scale of economic opportunity represented by a shift to circular is vast.
- 2014 McKinsey study, “Toward a Circular Economy,” found the economic gain from material savings **alone** is estimated at **over \$1 trillion per year by 2025** if companies reorient toward circular supply chains that increase recycling, reuse, and remanufacture.
- WRAP (The UK Waste & Resources Action Plan) has published a study showing that expansion of the Circular Economy could create up to 3 million extra jobs in the European Union by 2030; three times more than the ‘business as usual’ scenario.

# Circular Economy

## Transforming Our Linear Processes



The circular economy refers to an industrial economy that is restorative, sustainable and collaborative by intention. It relies on renewable and clean resources: energy, water, materials, land. Through careful design, it aims to keep materials and products in circulation in closed loops and for longevity to eliminate waste.