

Un nouveau sens pour la planification

Développement durable et métropoles

Marc Gibb

Présentation métropolitaine : VIRGINIE DU NORD

Journée européenne / 15 mai 2009





Planning Solutions for Sustainable Regions

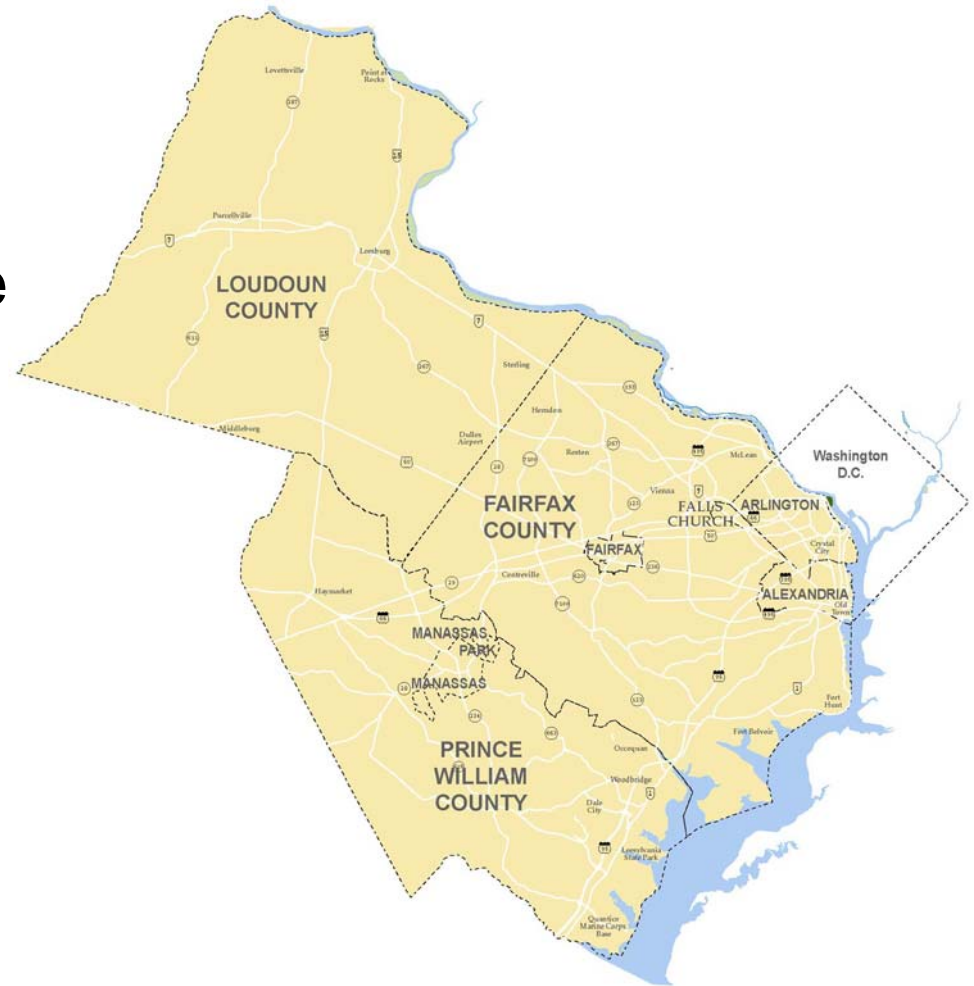
G. Mark Gibb, Executive Director
Northern Virginia Regional Commission

***Presentation at the
METREX Conference
Paris, France***

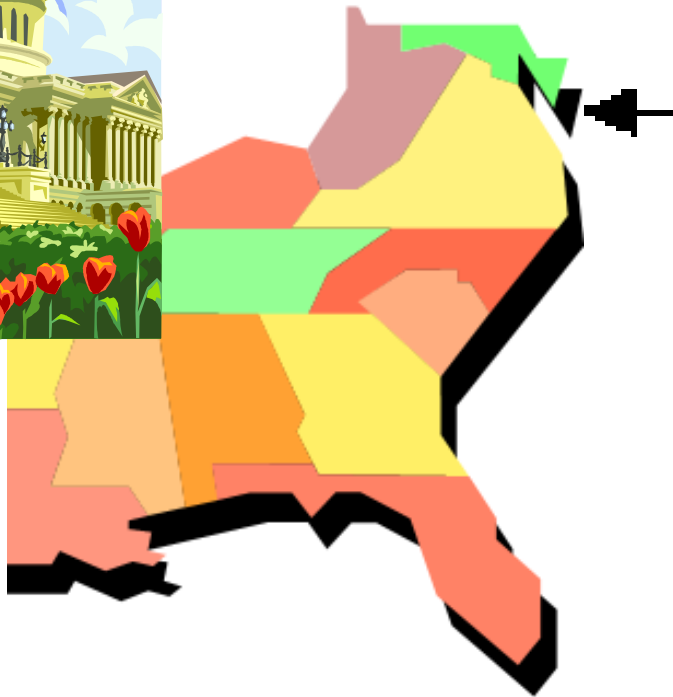
May 15, 2009

Northern Virginia

- 1,340 square mile area situated across the Potomac River from the nation's capital
- Comprising the Virginia portion of the Washington, DC, MSA, contains four counties, five cities and fourteen towns



Proximity to the Nation's Capital



- Made the region one of the fastest growing in the United States
- Northern Virginia, today, is home to 2.1 million people, which is more than the number found in 15 American states

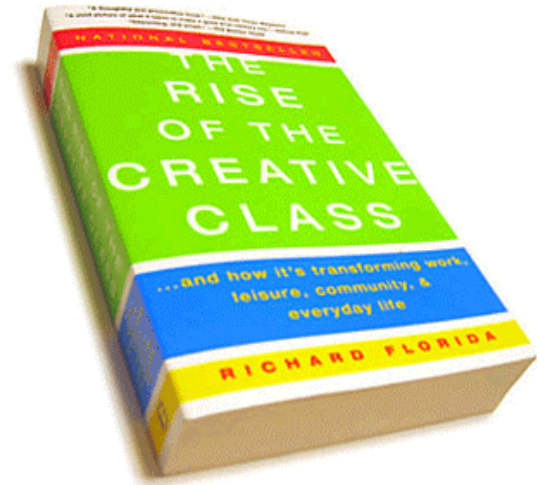
Growth in Northern Virginia



- Northern Virginia has been growing by about 35-38,000 people per year, on average, for more than 30 years
- By 2020, its population will reach 2.5 million
- This pace of population growth is equivalent to:
 - A new town each year, with a population equivalent to Leesburg (38,000);
 - Or to adding a new county every eight years, with a population equivalent to the number living in Loudoun today—which is about 300,000
- That's how fast the region's population is growing, and it's been doing this for more than 30 years

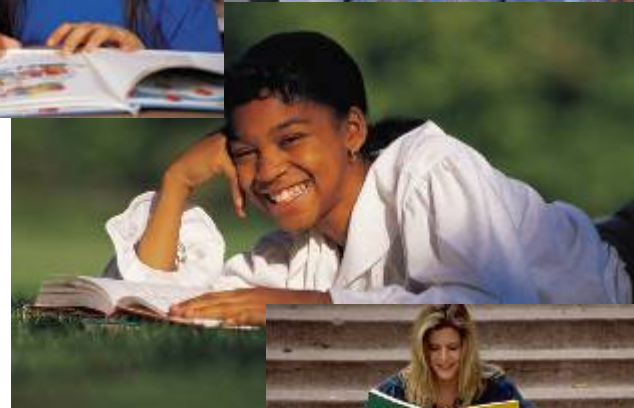
Rise of the Creative Class

- Some of you may be familiar with the *Rise of the Creative Class*, a best-selling book by Richard Florida, a former professor of regional economic development at George Mason University
 - *Creative Class* is his label for the new knowledge-based workforce that, he contends, is driving innovation, wealth creation and economic growth in America today
 - It explains why some places, like Northern Virginia, Silicon Valley, San Diego, Atlanta are growing and prospering; while others are lagging behind



Our Good Fortune

- We have the good fortune of living in a leading region of the creative economy; next door to federal government, the largest purchaser of goods and services in the world
- We live in a region that is a national leader in job creation, home to one of the most ethnically-diverse, highly-educated and affluent populations found anywhere in the world



Immigrant Gateway

- We're one of the great immigrant gateways of the U.S.
- One of every four people living in Northern Virginia is foreign-born, and, unlike other places, we attract immigrants from everywhere
- Only New York City has an immigrant population as diverse as that found here



Education

- Only one metro area in the U.S., Silicon Valley, matches our levels of education
- More than half of Northern Virginia's adult population have college degrees, double the national average, with six of our nine jurisdictions ranking among the top one percent, nationally, among the 3,141 counties and cities in the U.S. in the percentage of college educated



Household Income



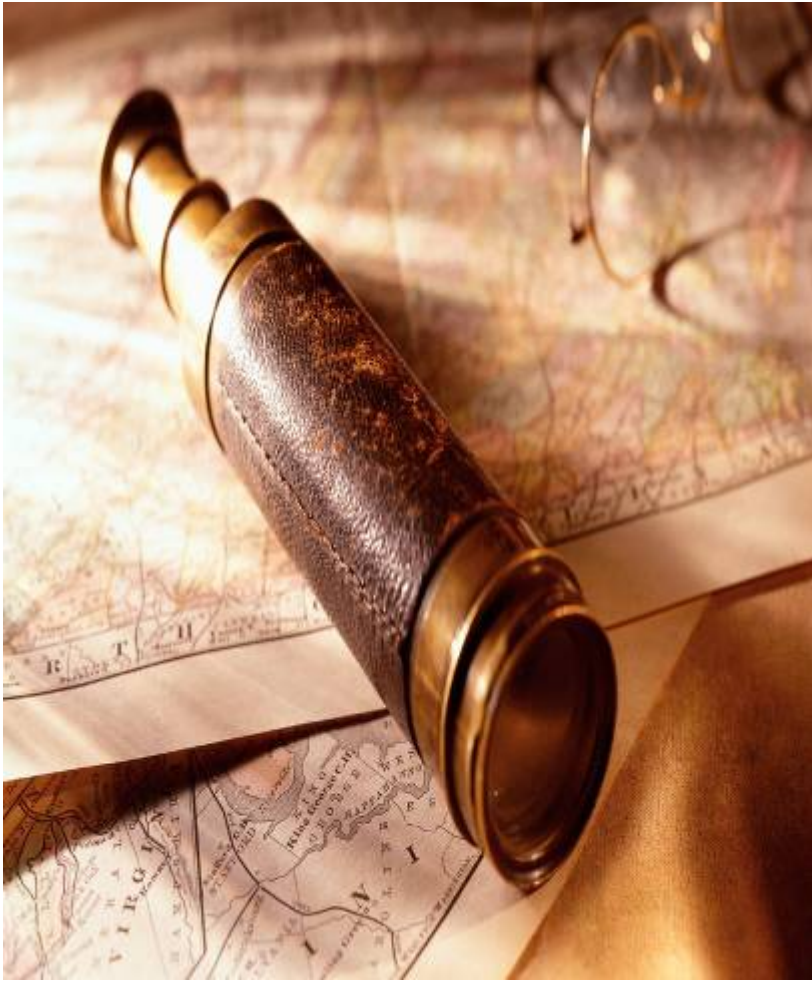
We rank at the top in household and family income as well, with Loudoun County and Fairfax County, the region's most populous jurisdictions regularly competing for the distinction of having the highest median household income in the country

Good News/Bad News

- That was the good news; the bad news is it comes with a price
- Like most big winners in the new economic age, this region struggles with the challenges of growth and prosperity:
 - worsening traffic congestion—2nd worst in the Nation
 - housing that is unaffordable for too many of our citizens
 - mounting pollution problems, contamination of our air, water and land--from the cars and from the enormous waste by-products of an affluent and consumptive population
 - growing disparity between haves and have-nots



Where NVRC Comes In...

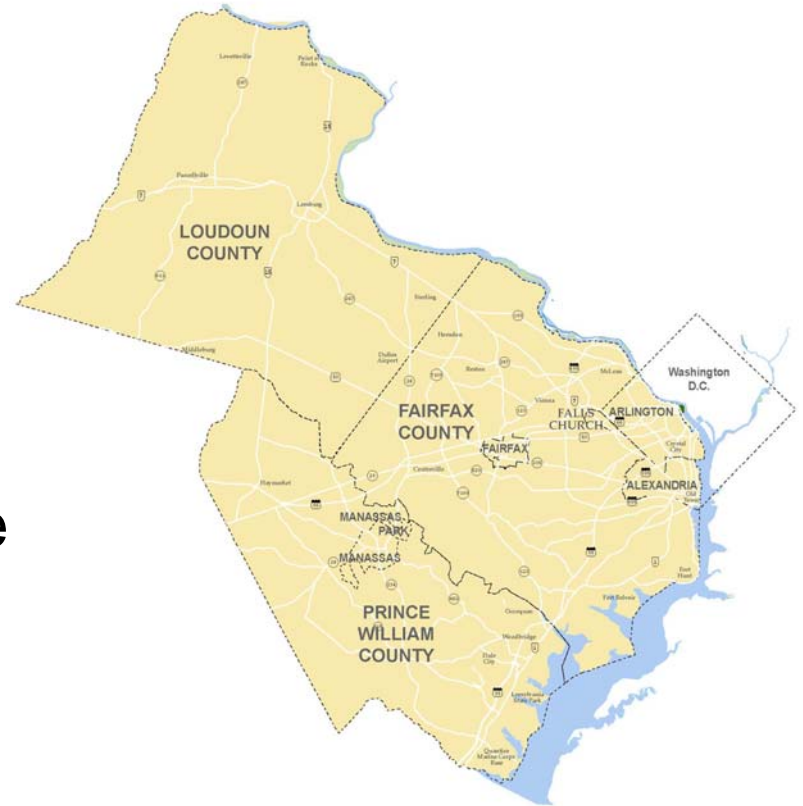


- Economic forces, and the problems this region face, do not recognize jurisdictional boundaries, lines which were drawn on a map over 200 years ago based upon a 17th century model of British government and upon a way of life that has long since vanished
- This is where NVRC comes in...



Northern Virginia Regional Commission

- The Voice of Northern Virginia
- 14 Cities, Towns & Counties
- One of 21 Planning District Commissions in Virginia
- Existence authorized by the Virginia General Assembly
- Local Elected Officials are the NVRC Board of Directors
- Meets monthly



NVRC Programs and Projects

- Aging
- Communications
- Data & Maps
- Emergency Preparedness
- Health Resources
- HIV/AIDS
- Housing & Homelessness
- Legislation
- Regional Forums
- Land Use and Transportation
- Environment
- International Partnerships



A Trans-Atlantic Partnership



Verband Region

Stuttgart



“Different Structures - Similar Problems”

*Title of article written by
Rainald Enslin following
visit to Northern Virginia
in October 1999*

Andere Strukturen – ähnliche Probleme

Northern Virginia: Erste Eindrücke aus der Hauptstadtregion der USA

Um von einander zu lernen, um Erfahrungen auszutauschen und vor allem um Lösungen vielleicht sogar auch gemeinsam zu erarbeiten, haben die Region Stuttgart und der Planungsverband von Northern Virginia Anfang des Jahres 1999 einen partnerschaftlichen Erfahrungsaustausch aufgenommen. Rainald Enslin, Chefplaner des Verbands Region Stuttgart, berichtet von Eindrücken aus den USA.

Die Region Northern Virginia grenzt mit 1,8 Millionen Einwohnern und 1,05 Millionen Arbeitsplätzen direkt an die amerikanische Bundeshauptstadt Washington an. Der Austausch mit dieser Region verspricht sehr interessant zu werden. Denn obwohl so vieles anders strukturiert ist, ergeben sich doch viele Ansatzpunkte für eine fruchtbare gegenseitige Information und den Austausch von Lösungsansätzen.

Die Metropolregion Washington entwickelt sich seit Jahrzehnten als Zentrum der Weltpolitik und als ein kultureller, sozialer und wirtschaftlicher Schwerpunkt des nordamerikanischen Kontinents mit großer Dynamik. Die Lage innerhalb der USA aber auch die örtliche Topographie ist für eine solche Entwicklung geradezu prädestiniert.

Die Stadt Washington D.C. ist mit 610 000 Einwohnern innerhalb des Verdichtungsraumes mit seinen 4,5 Millionen Einwohnern immer stärker in die Minderheit geraten. Da die Hauptstadt Bundesdistrikt ist, waren Eingemeindungen seit jeher ausgeschlossen und Kooperationen mit Kommunen anderer Staaten sehr erschwert. Zwei Bundesstaaten, meh-

rere Counties und mehrere Dutzend Gemeinden und gemeindefreie Bezirke bilden das Umland von Washington.

Gemeinsamkeiten und Unterschiede

Für den südlich vom Potomac liegenden Teil des Bundesstaates Virginia gibt es seit ca. 30 Jahren eine regionale Planungsorganisation, die

Informationstechnologie sowie im Zusammenhang mit der öffentlichen Verwaltung, Wirtschaft sowie den Interessenverbänden in atemberaubendem Ausmaß, dadurch zunehmender Druck zur Entwicklung weiterer Büroflächen.

- Die mit dem Rückgang der Industrie und dem Bedeu-



Tysons Corner (Fairfax County)

„Northern Virginia Planning District Commission“. Bei der Betrachtung fallen eine ganze Reihe vertrauter und ungewohnter Stichworte auf:

- Strukturwandel der Wirtschaft: Die (in diesem Raum nie besonders starke) produzierende Industrie geht noch weiter zurück; gleichzeitig entwickeln sich Dienstleistungen rund um die

- tungsverlust der Bahn entstehenden Brachflächen werden zu neuen Herausforderungen der Grundstücksverwertung.
- Stark wachsende Zuwanderung in die Hauptstadtregion; 2 - 3 Prozent jährliche



Basic Demographics

	Stuttgart <u>Region</u>	Northern <u>Virginia</u>
Inhabitants	2,000,000	1,750,000
Jobs	1,020,000	1,075,000
Area (sq. miles)	1,410	1,300
“Urban” Population	580,000	500,830
	(City of Stuttgart)	(Inside the Beltway)





Auto4

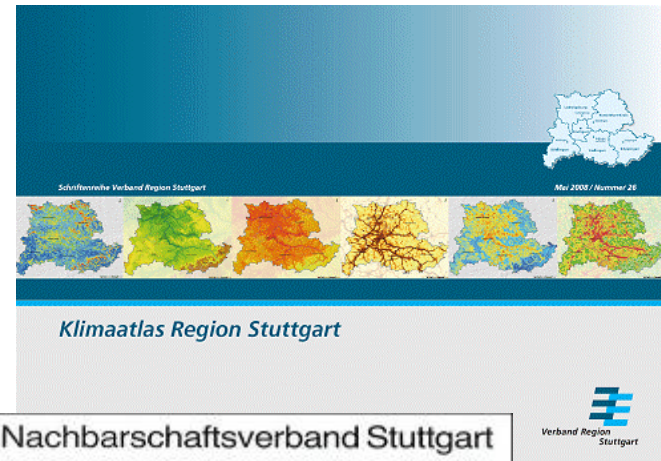
Workable Solutions

- Traffic Calming
 - Speed Bumps
 - Traffic Circles
- Urban Re-Development
- Pedestrian-Oriented Communities
- Water Quality Improvement
- Air-Flow Studies
- Energy and Climate Change
- Green Roofs
- Recycling



Stuttgart Region

- The state of Baden-Wuerttemberg is on track to reduce emissions of greenhouse gases by 20 percent at 1990 levels
- The Verband Region Stuttgart has developed a regional 2020 plan to reduce CO2 emissions through coordinated land-use and transportation planning
- The Verband Region Stuttgart has developed one of the first climate atlases in Europe that assess and analyses effects of greenhouse gas emissions and urban heat islands through land-use changes



Current Efforts Revolve Around Community Energy Planning

- Community energy planning is the integration of
 - Energy efficient buildings and housing
 - Efficient generation and distribution of renewable and conventional energy,
 - Mixed and compact land-uses built around transit centers
 - Clear and quantifiable short- and long-term energy efficiency and greenhouse gas emissions reduction targets
 - It is frequently practiced in Europe, but remains, with some exception in Canada, relatively obscure in North America
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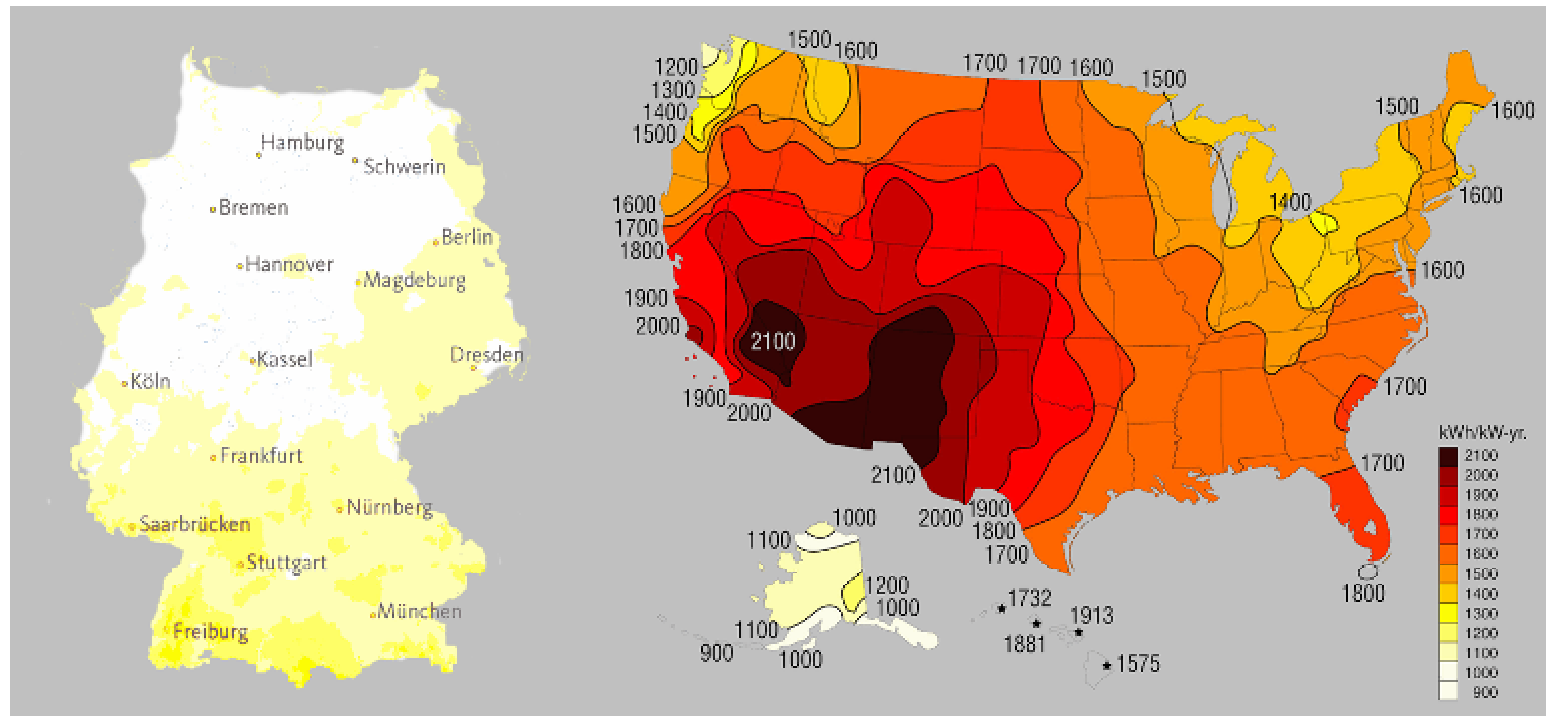
Community Energy Planning Workshops

- NVRC is developing several workshops to:
 - Discuss energy and climate targets that the local government could embrace
 - Provide guidance on the likely growth scenarios over 2 to 3 decades (including population and employment)
 - Review existing energy and “green” initiatives already underway and assess the reality of achieving any specific targets
 - Conceptually discuss some of the options to close the gap and the requirements for developing a CEP supported by comprehensive implementation including necessary policy and institutional decisions
 - Develop an outline for a CEP process that will allow further discussions in the jurisdiction to explore implementation, community engagement, identify “scale projects” overlays to pilot potential community level approaches, and agree on a process to ensure adequate resources are assigned to the next steps
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Challenges

- There are still many questions about how to start and implement long-term and reliable energy and climate mitigation strategies
 - There is uncertainty about how to reduce greenhouse emissions 80 percent by 2050
 - There is not a “light” alternative to doing a proper energy plan
 - This will be a process to get the technical and elected leadership on the same page and to clearly understand the scope of the community energy planning and execution that is being envisaged and resourced
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Comparison of Solar Resources



Virginia has high solar PV potential (over 11,000MW) compared to world leader Germany

Modest Applications of Renewable Energy Generation...

	<u>Virginia</u>	<u>Northern VA</u>
Hydro	440,692 kW	0 kW
Wind	22 kW	0 kW
Solar	435 kW	112 kW
Biomass	540,545 kW	159,400 kW

Source: Renewable Sources in Virginia

<http://www.energy.vt.edu/vept/renewables/RenewPlants.csv>

Rail to Dulles Airport





Proposed Potomac River Commuter Ferry





PRINCE WILLIAM COUNTY
 POTOMAC RIVER COMMUTER FERRY STUDY
 ROUTE MAP