VIRGINIA 2018 SOLAR DEVELOPMENT OVERVIEW

RAPPAHANNOCK-RAPIDAN
REGIONAL PLANNING DISTRICT
COMMISSION
PIEDMONT ENVIRONMENTAL
COUNCIL



April 13th, 2018

The Solar Research Institute (SRI) is a 501(c)3 non-profit organization based in Richmond, VA and Washington, DC. SRI was founded to increase understanding of solar energy. To accomplish this goal, SRI performs a broad range of research, education, and public service activities.





66,893
EQUIVALE
NT HOMES

Source: Solar Energy Industries Association (SEIA) and GTM Research, *U.S. Solar Market Insight*

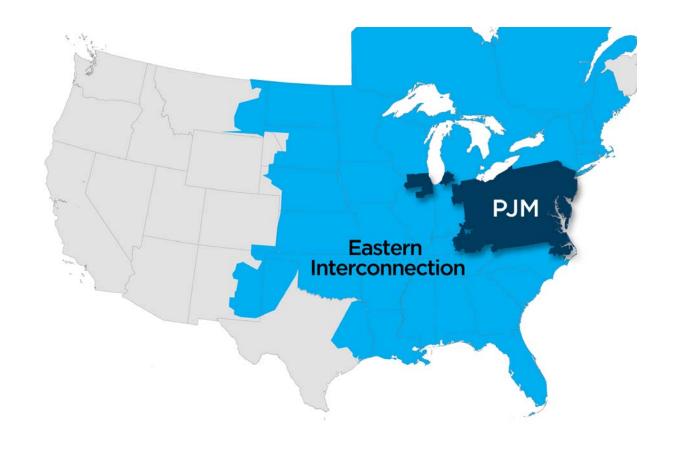
620
INSTALLED
MEGAWAT
TS

Source: Solar Energy Industries Association (SEIA) and GTM Research, *U.S. Solar Market Insight*

370
MEGAWATTS
UNDER
CONSTRUCTION

Source: Virginia Solar Energy Development and Energy Storage Authority, 2017 Annual Report

1 MW OF SOLAR ENERGY POWERS APPROXIMATELY 250 HOMES AT PEAK OUTPUT





FACEBOOK
HENRICO DATA
CENTER
\$1 BILLION
INVESTMENT

100+ FULL-TIME JOBS

300 MW SOLAR





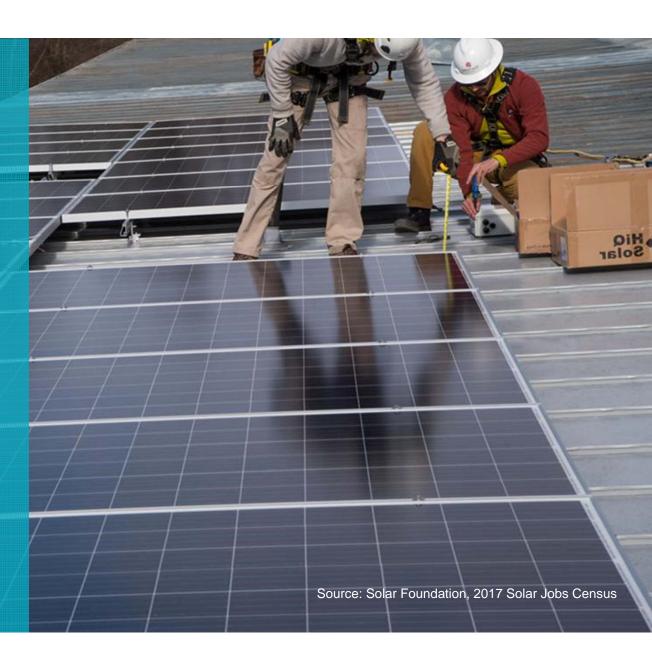
3,565 SOLAR JOBS IN VIRGINIA

Installation & Construction

Development

Sales & Distribution

Engineering



VIRGINIA OPERATIONAL SOLAR PROJECTS



NAS OCEANA (18 MW) VIRGINIA BEACH



REMINGTON (20 MW) FAUQUIER



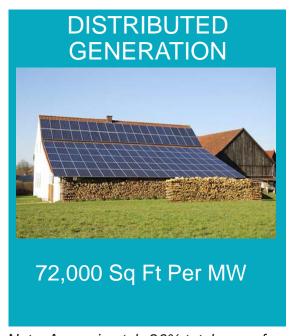
UVA LIBRARY (141 KW) CHARLOTTESVILLE



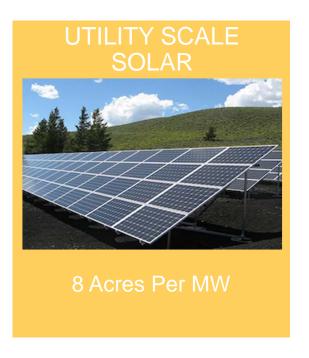
TOWN OF BEDFORD MUNICIPAL SYSTEM (6 MW)



SOLAR LAND USE FOOTPRINTS

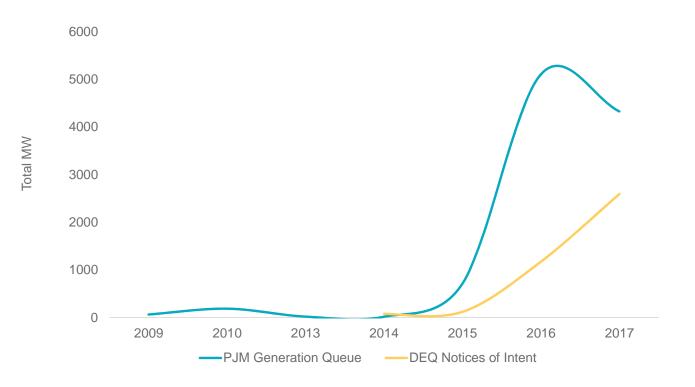


Note: Approximately 26% total area of small building rooftops are suitable for solar deployment



Source: National Renewable Energy Laboratory (NREL), Rooftop Solar Technical Potential in the U.S., Land Use Requirements for Solar Power Plants in the U.S.

SOLAR OUTLOOK, UTILITY-SCALE



DEQ NOTICES OF INTENT

Approved: 17 Projects, (622.9 MW)
Pending: 58 Projects (2902.35 MW)
Withdrawn: 6 Projects (460 MW)

PJM GENERATION

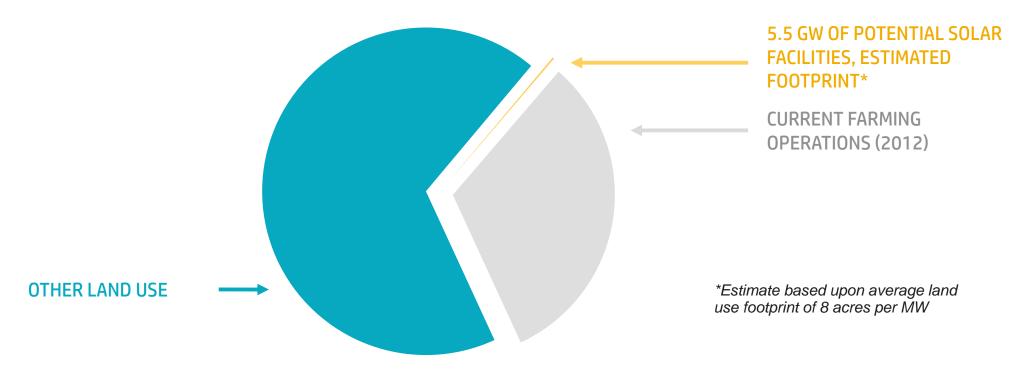
In Service: 21 Projects (327 MW)

Pending: 107 Projects (7,014 MW)

Withdrawn: 95 Projects (4,823 MW)



FUTURE IMPACTS



Source: USDA 2017 Agricultural Census



LONG-TERM PLANNING STRATEGIES

SPECIAL EXCEPTION, CONDITIONAL USE PERMITS



COMPREHENSIVE PLAN AMENDMENTS



PUBLIC FACILITIES REVIEW ("2232")





ADDITIONAL RESOURCES



VA DEPT OF ENV QUALITY deq.virginia.gov



NC CLEAN

TELEINTECH.org



VA ASSOCIATION OF COUNTIES



SOLSMART solsmart.org



VA COOPERATIVE EXITEMSION



NATIONAL RENEWABLE LABORATORY

CONTACT US

Kaitlin Savage Director of Public Engagement

Mobile: 804-424-1387

ksavage@solarresearchinstitute.org

