

PRINCE WILLIAM COUNTY ECO-PARK

INTEGRATING GREEN ENERGY, STEM EDUCATION, RESEARCH & ECONOMIC OPPORTUNITY

Prince William County is transforming its landfill into a community resource producing green energy, recovering valuable materials, and providing unique opportunities for education and research.

This Eco-Park includes plans for an interpretive science-technology-engineering-math (STEM) Education Center that will empower students to solve today's environmental challenges through hands-on activities and onsite investigations. Collaborations with universities will advance energy generation and waste management research. Community members and visitors will discover ways to reduce their impact on the environment, save money, and live a more sustainable life.



EDUCATION & RESEARCH

- Low-impact, net-zero energy-use building
- Curriculum on renewable energy, environmental economics, landfill technology, stormwater management
- Visitor programs on green building, energy efficiency, sustainable living
- University research laboratory
- High-tech classrooms, meeting, & county office space
- Unique "Living Machine" that processes wastewater onsite



OUTDOOR & COMMUNITY RESOURCES

- Protected pollinator & wildlife habitats
- Hiking trails through acres of forest
- Bird-watching & nature exploration
- Wetlands & streams with viewing platforms
- Athletic fields for youth sports
- Field investigations with schools & university researchers



ENERGY & RECOVERY TECHNOLOGIES

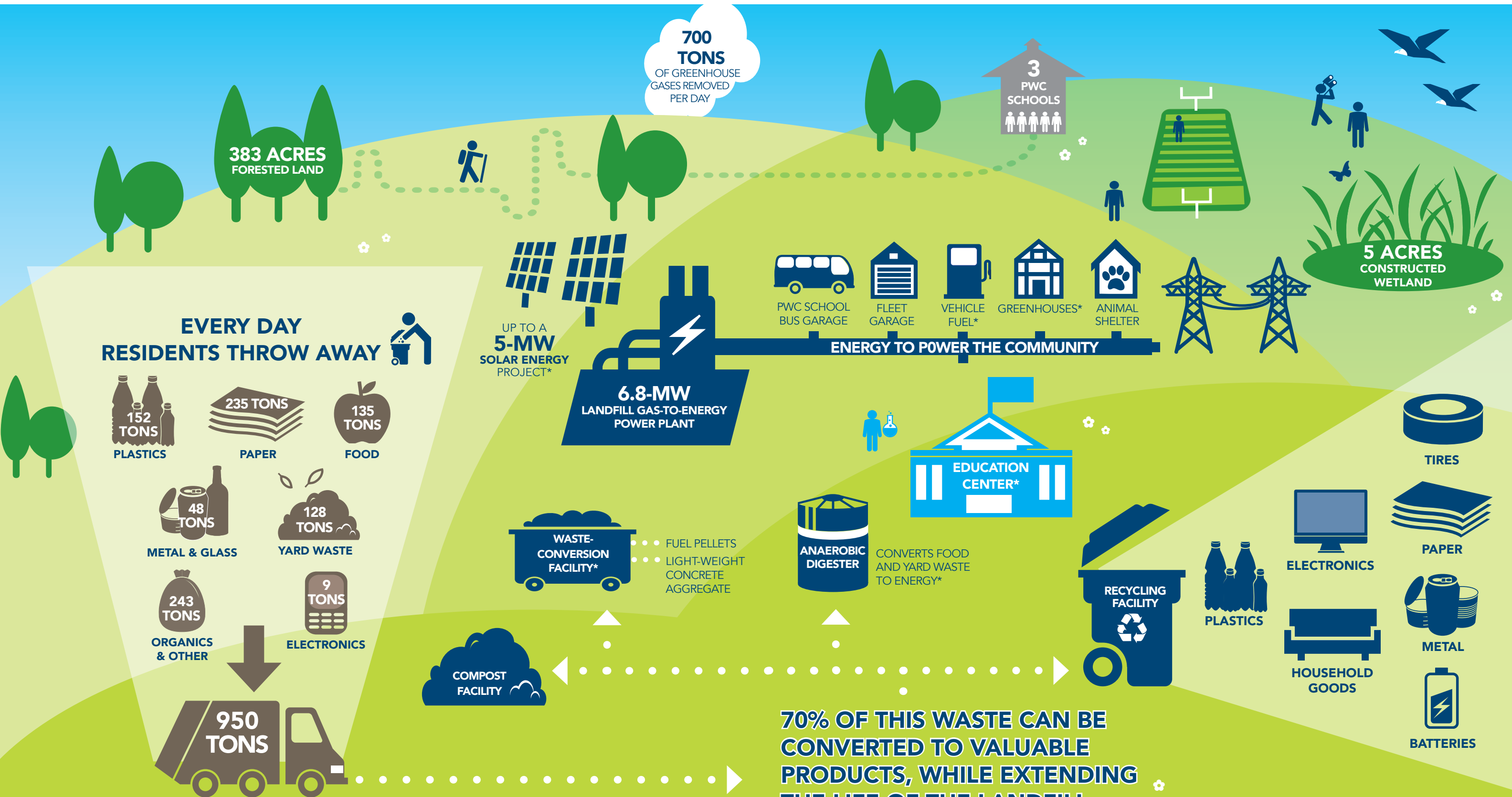
- State-of-the art landfill
- 6.8-MW methane-to-energy facility
- Materials recovery/recycling facilities
- Food waste-to-energy conversion*
- Biogas vehicle fueling station*
- Solar electricity generation*
- Greenhouses fueled by waste heat & gas*

*in development



PRINCE WILLIAM COUNTY ECO-PARK

SOLVING ENVIRONMENTAL CHALLENGES THROUGH RESEARCH, EDUCATION, ENERGY GENERATION, & RESOURCE RECOVERY



*in development

70% OF THIS WASTE CAN BE CONVERTED TO VALUABLE PRODUCTS, WHILE EXTENDING THE LIFE OF THE LANDFILL

JOIN US IN MAKING THE EDUCATION CENTER A REALITY!

Prince William County's Solid Waste Division is seeking partners and working with the community to help create this innovative facility.

Benefits to collaborators include:

- Corporations and businesses can demonstrate new technologies and share exhibits.
- Researchers can experiment and solve environmental problems.
- County leaders can proudly share environmental solutions and provide economic opportunity.
- Teachers can expand and apply STEM learning with their students.
- Community members can explore nature and learn how to become environmental stewards.
- Future scientists, mathematicians, and engineers can investigate and be inspired to devise impactful solutions to environmental problems.

All of this could become a reality with the support of our community and partners.

Follow our progress as we work to partner with our community and raise development funds for this innovative Education Center, uniquely designed and located to encourage innovation and advance sustainable solutions to today's environmental challenges.

www.pwcgov.org/ecopark



PRINCE WILLIAM COUNTY SOLID WASTE DIVISION AWARDS



MORE INFORMATION

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