



nDanville is a true public/private partnership. The City of Danville is building a world class “digital road” broadband infrastructure to support Danville’s Smart Grid energy initiatives and to provide world class broadband services to area businesses.

Customers have a choice of providers and services, and buy directly from private sector companies. The City is not selling services to residents or businesses and is not competing with the private sector.

nDanville is the broadband fiber network provided by the City of Danville Utilities Department. The nDanville network became operational in late 2007, and was the first municipal open access, open services network in the United States. Since then, new customers have been connected steadily, and a major expansion is planned for the summer of 2009.

The nDanville fiber network is also used to support the Utilities Department Smart Grid effort to provide resilient and reliable electric power to businesses and residents, using state of the art Advanced Metering Infrastructure (AMI), sophisticated substation and power monitoring. Every substation is monitored using fiber connections, and a highly sophisticated outage management system enables the grid operators to quickly diagnose and solve power issues.

### Key Features of nDanville

- Owned and operated by the City of Danville Utilities Department.
- A regional network with planned expansion throughout the entire Utilities Department electric service area, which includes not only the City of Danville, but parts of Pittsylvania, Henry, and Halifax counties.
- The nation’s first municipal fiber open access, open services network.
- Private sector service providers offer all services to businesses and residents.
- Incumbent providers are able to use nDanville facilities to offer services to customers that have been too expensive to reach on their own.
- Fiber services are available in all five business parks in the Danville area.
- The historic Downtown Tobacco Warehouse District has fiber availability in office buildings, rental apartments, and condominiums.
- Area schools have already benefitted from substantial savings by using nDanville to get Gigabit network connections and improved services at lower cost.
- The nDanville Medical Network project has begun to connect a majority of doctor’s offices and medical clinics around the city. The network is already being used by the Danville Regional Medical Center to provide super high speed connectivity to satellite clinics and offices in Danville.
- nDanville will be able to meet or exceed all speed and bandwidth standards and requirements of the proposed Federal broadband stimulus spending bill.
- The network can provide connectivity over its fiber network at any speed or capacity needed by any business interested in the region, including high bandwidth applications like data centers and server farms.

## Saving Money

Customers of nDanville service providers are already seeing the cost of telephone and Internet service decline. The ability to choose a service provider creates true competition and tends to promote good service and fair rates. Rates for telecommunications services like Internet and local transport are very affordable, with the local hospital benefitting from a new high performance fiber connection to another medical facility in the City. Numerous Danville businesses are making good use of the high quality, high performance fiber connections to support business activities.

## A Wide Variety of Services

nDanville's fiber network is capable of delivering voice telephone, Internet access, and standard and HD television. As the network expands, many other services will become available, including:

- Live HD video
- Movies on demand
- Business videoconferencing
- Telemedicine and telehealth services
- Online gaming
- Computer backup services
- Distance learning
- Editing and storage of home videos
- Security services

## Entrepreneurs and Work From Home

The service-based approach will be extremely attractive to business owners and entrepreneurs, who can move to Danville knowing that workers and staff will all have affordable broadband access from home and from work. Danville will be one of just a few areas of the United States with world class telecommunications services to every home and business. Combined with a mild climate, great quality of life, robust and reliable electric power, and outstanding recreational activities, Danville is an ideal place for Knowledge Economy businesses.



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