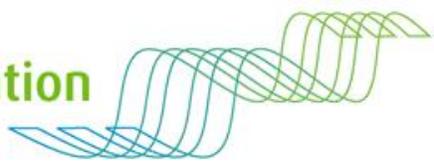


Green Meter for Fixed Access Networks

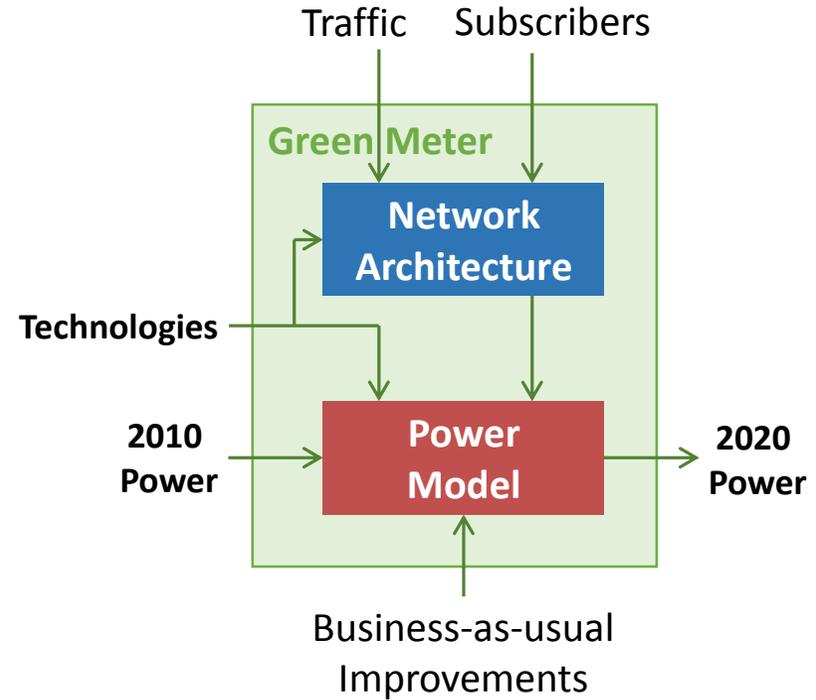
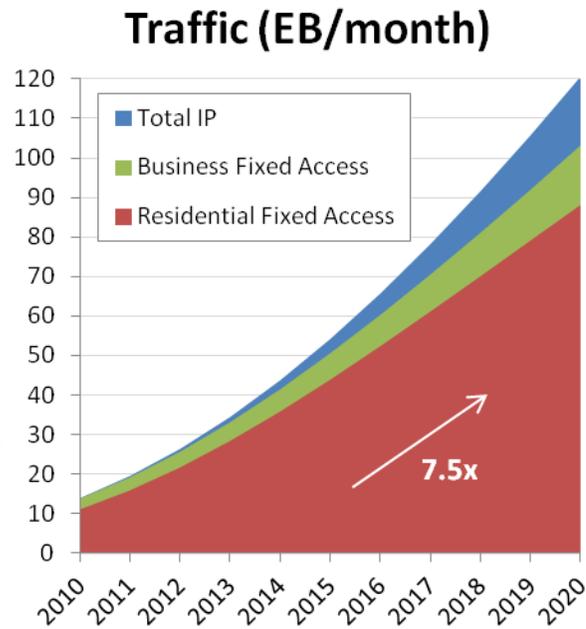




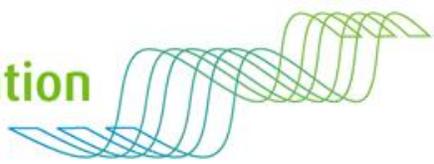
Green Meter Assessment for Fixed Access Networks

CHALLENGE AND BREAKTHROUGHS

- 85% of IP traffic is fixed access
- 7.5x increase in traffic in 2020
- Access device for every subscriber
- Energy efficient network architecture with key new technologies
- Mathematical model capturing sub-component savings to compute total system savings



Energy Efficient Network with New Technologies and Power Model to Compute Savings



Green Meter Assessment for Fixed Access Networks

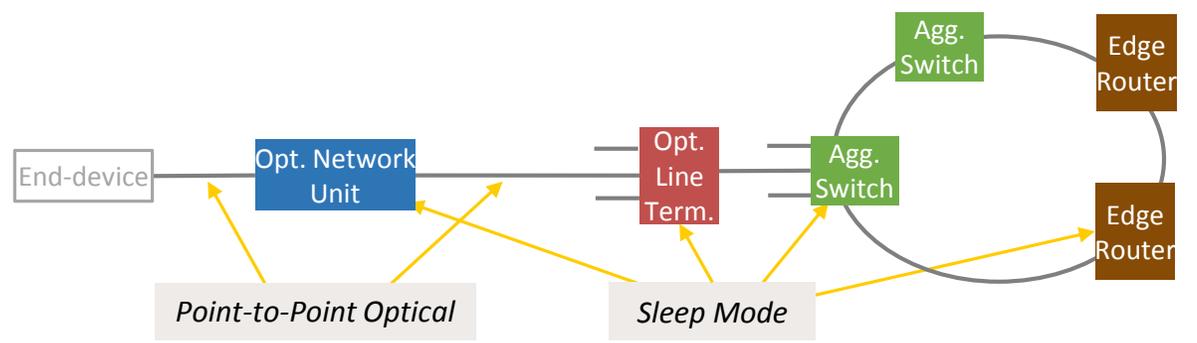
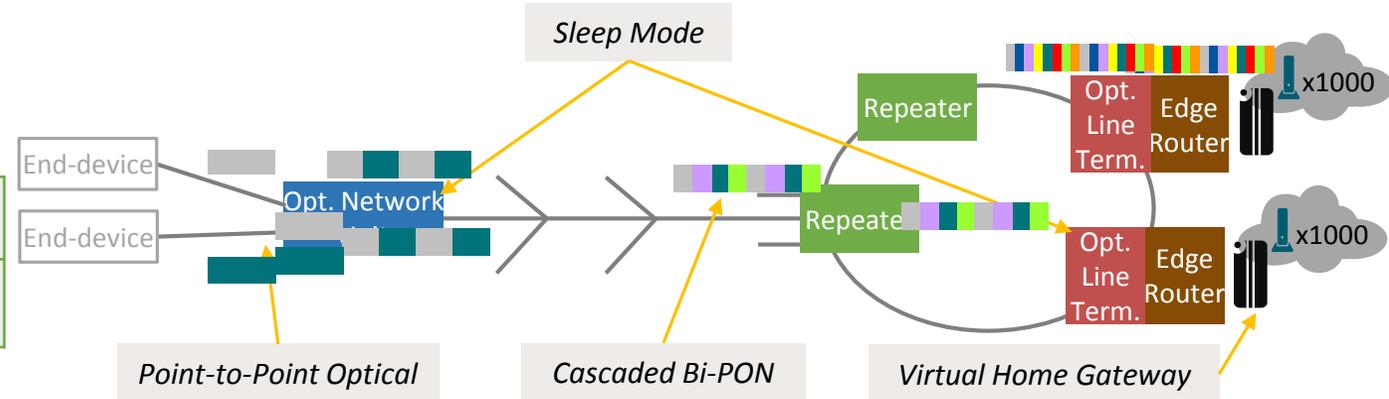
KEY ACCOMPLISHMENT AND RESULTS

Residential Networks

Energy savings per year	14 TWh = 97%
Energy efficiency improvement	254x

Business Networks

Energy savings per year	0.8 TWh = 82%
Energy efficiency improvement	30x



Energy Savings Equivalent to Annual Emissions from > 2 Million Cars