Oregon Joint Use Association



Small Cell Deployment Resources

The following are resources available to local government, pole owners, telecommunication and power utilities for guidance about small cell deployment. Listing does <u>not</u> imply endorsement. These types of documents are frequently updated so you may need to look at the agency or firm's website for more current information.

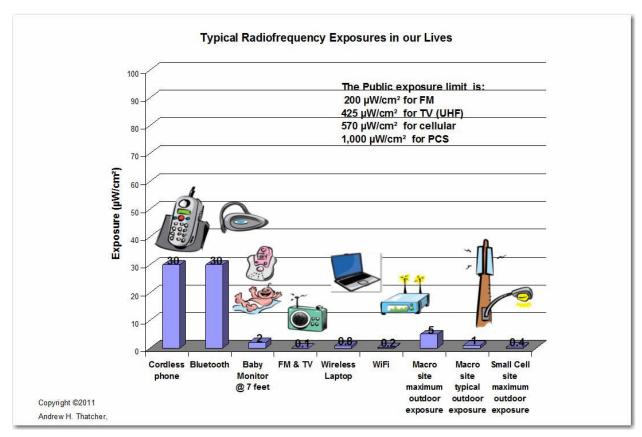


Figure 1 RF Exposure from Various Sources

Technical Design

City of Tigard - http://www.tigard-or.gov/engineering/COT Wireless Facilities Standards.pdf

City of Seattle Utility Standards - http://www.seattle.gov/light/engstd/docs2/0095.15.pdf and http://www.seattle.gov/light/engstd/docs2/0095.15.pdf and http://www.seattle.gov/light/engstd/docs2/0095.15.pdf and

City of Eugene – https://www.eugene-or.gov/4114/Wireless-Installations-in-the-Right-of-Way

Asset Management

EWEB Pole Selection Spreadsheet – to be hosted on OJUA site

City of Eugene GIS app - https://eugene-

pwe.maps.arcgis.com/apps/webappviewer/index.html?id=cfb1e048f8964ed38a1d37cfb29a5e4e

Geographic Information Systems (GIS) – ESRI - https://www.esri.com/en-us/arcgis/products/arcgis-online/overview

Commercial Asset Management services/software

Varasset - https://www.varasset.com/

CityWorks – https://www.cityworks.com/

Alden Systems - https://www.aldensys.com/

Land Use – Development Code

City of Denver Small Cell infrastructure Design Guidelines -

https://www.denvergov.org/content/dam/denvergov/Portals/705/documents/guidelines/PWE S-016.0-Small Cell Infrastructure Design Guidelines.pdf

City of Richland, WA – from Washington Model Code

https://www.ci.richland.wa.us/home/showdocument?id=8134

City of Cannon Beach, OR - http://www.qcode.us/codes/cannonbeach/view.php?topic=17-17-75-17-75 040&frames=on

National Model Code (NATOA and National League of Cities) – August 2018 – prior to FCC 2018 orders

https://www.natoa.org/documents/NATOA%20NLC%20Alternative%20Model%20Code%20for%20Municipalities%20August%202018.pdf

Smart Cities

City of Denver - https://www.denvergov.org/content/denvergov/en/denver-smart-city.html

Safety

NESC – National Electrical Safety Code - https://catalog.nfpa.org/National-Electrical-Safety-Code-2017-Edition-P17436.aspx or https://standards.ieee.org/products-services/nesc/index.html See also: OR PUC NESC Quick Reference Guide - https://www.puc.state.or.us/safety/nescref.pdf

NEC – National Electrical Code - https://www.nfpa.org/codes-and-standards/all-codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=70

OR-OSHA – Oregon Occupational Safety and Health Administration

PUC - Public Utility Commission Safety Division -

https://secure.sos.state.or.us/oard/displayDivisionRules.action?selectedDivision=4038

RF - Radio Frequency



Figure 2 RF Warning Sign

Federal Communications Commission – RF exposure:

https://transition.fcc.gov/Bureaus/Engineering Technology/Documents/bulletins/oet65/oet6 5.pdf

Dr. Andrew "Drew" Thatcher - http://www.rfthatcher.com/ see also his site for this glossary of terms: http://www.rfthatcher.com/RF-Terms.html

The Swedish Radiation Safety Authority's (SSM) Scientific Council on Electromagnetic Fields https://www.stralsakerhetsmyndigheten.se/contentassets/f34de8333acd4ac2b22a9b072d9b33 fg/201809-recent-research-on-emf-and-health-risk

US Food & Drug Administration - report on radiofrequency energy exposure https://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm595144.htm

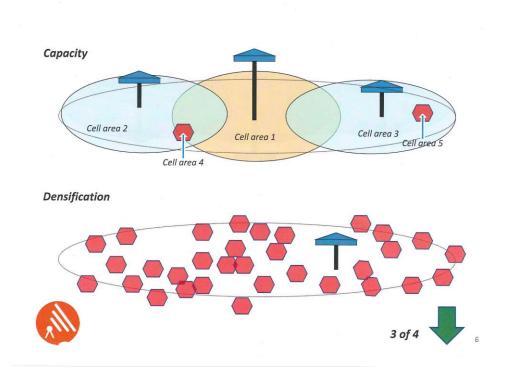


Figure 3 Objectives of Small Cell Deployment

Pole Rental/License Agreements

Salem: https://www.cityofsalem.net/Pages/install-wireless-communication-facilities.aspx

EWEB - http://www.eweb.org/

Springfield - http://www.springfield-or.gov/city/development-public-works/standard-construction-specifications-standard-drawings/

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Standards Manual - https://www.ojua.org/wp-content/uploads/2018/09/FINAL-Standards-Manual-Updated-09-18-2017-1.pdf

Federal Communications Commission - Small Cell Deployment

3rd Order on Wireless Deployment (2018) - https://docs.fcc.gov/public/attachments/FCC-18-133A1.pdf

Other Organizations

Oregon Association of Telecommunication Officers& Administrators (OATOA) – contact President Reba Crocker (crockerr@milwaukieoregon.gov)

National Association of Telecommunications Officers & Administrators (NATOA) – https://natoa.org/

Oregon Broadband Advisory Council – managed by Business Oregon https://www.orinfrastructure.org/Infrastructure-Programs/Telecommunications/OBAC/

League of Oregon Cities - www.orcities.org

Oregon Telecommunications Association - https://www.ota-telecom.org/

Oregon Municipal Electric Utilities Association - https://www.omeu.org/

Telecommunication Firms

Verizon - https://www.verizon.com/about/news/5g-here

AT&T - https://about.att.com/pages/5G and https://about.att.com/story/2019/2019 and beyond.html

Mobilitie - http://mobilitie.com/

Sprint - https://www.sprint.com/en/allfor5g.html

T-Mobile - https://www.t-mobile.com/news/mwc-2018-5g

Crown Castle - https://www.crowncastle.com/municipalities/

others

Pole Owners

Portland General Electric - https://www.portlandgeneral.com/

PacifiCorp - http://www.pacificorp.com/index.html

Consumers Power - https://www.cpi.coop/

An OJUA Wireless Committee Work Product Spring 2019 Columbia River PUD - https://www.crpud.net/

Lane Electric Cooperative - https://laneelectric.com/

McMinnville Water and Light - http://www.mc-power.com/

Monmouth Power and Light - http://www.ci.monmouth.or.us/pView.aspx?id=4747&catid=552

Springfield Utilities Board - http://www.subutil.com/

others