



Electrical Facilities Planning



Bellevue City Council – March 9, 2015

Energize Eastside Project Overview

- ▶ Proposed by PSE in December 2013
- ▶ 18 mile 230kV transmission line project extending from Renton through Bellevue to Redmond
- ▶ Provides electrical capacity to serve growth and improves grid reliability
- ▶ City initiated community engagement strategy

Discussion Topics

- ▶ Independent Technical Analysis Schedule Update
- ▶ EIS Process Overview and Schedule
- ▶ Electrical Reliability Study – Implementation Status

Independent Technical Analysis

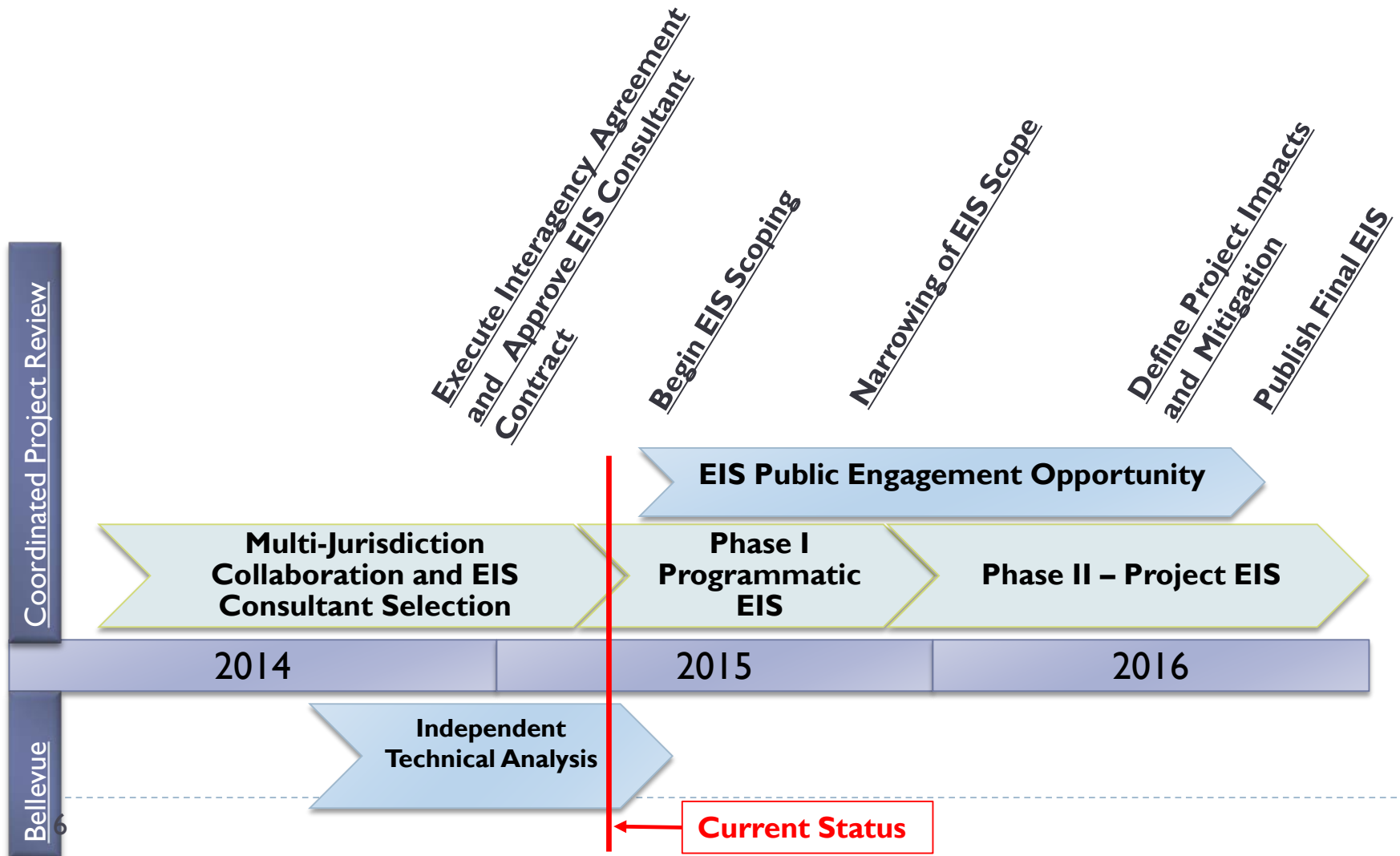
- ▶ Study initiated by the City
 - ▶ City hired Utilities System Efficiencies, Inc.
 - ▶ Evaluates purpose, timing, and need for project
 - ▶ Considering 2012 forecast data and 2014 updates
 - ▶ Includes stakeholder meetings and input
- ▶ Scheduled for presentation to Council on March 30

EIS Process Overview and Schedule

- ▶ **An EIS is an impartial disclosure document identifying:**
 - Significant environmental impacts
 - Reasonable alternatives – a feasible alternate course of action that meets the proposal objectives at a lower environmental cost
 - Mitigation measures to avoid or minimize adverse impact

- ▶ **An EIS is not a “permit,” it is:**
 - A consolidated collection of information
 - Used to facilitate decision-making

Energize Eastside Environmental Review Process

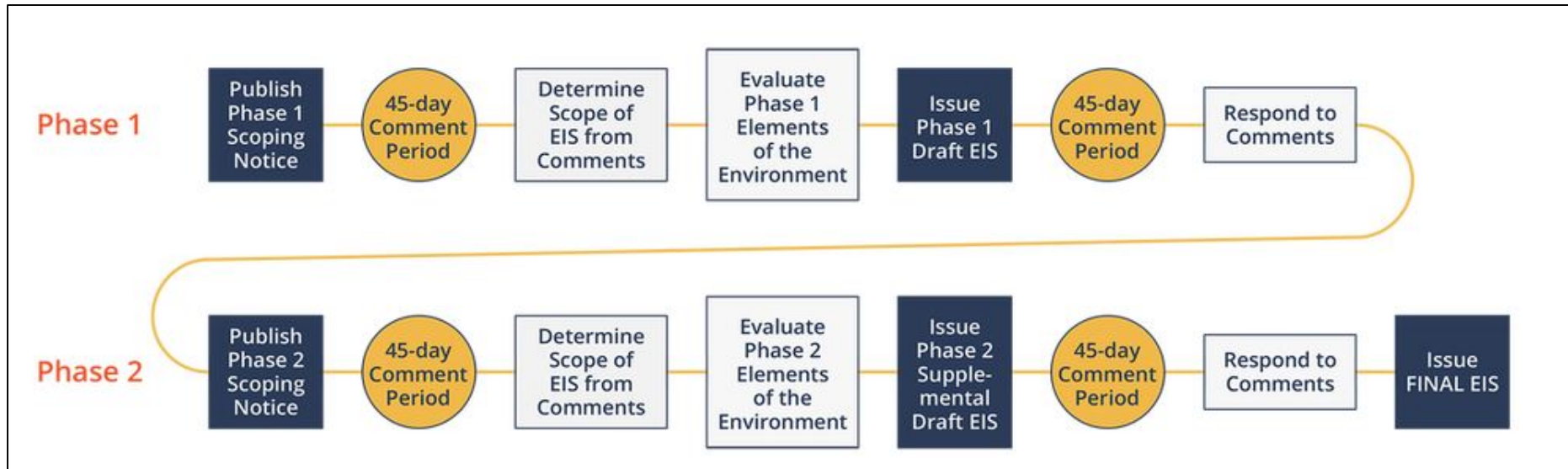


Energize Eastside EIS Process

- ▶ Initiation of Energize Eastside EIS
- ▶ Determination of Lead Agency Status
- ▶ Development of Interagency Agreement
- ▶ Selection of EIS Consultant
- ▶ Phased Environmental Review
 - ▶ Phase I: Non-project level environmental review
 - ▶ Broader analysis of need & methods to address need
 - ▶ Phase II: Project-level environmental review
 - ▶ Narrower analysis of project-level construction and operation impacts

Website: EnergizeEastsideEIS.org

Energize Eastside EIS Process



Electrical Reliability Study Implementation Status

ERS recommendation status: Operationalized

- ▶ **#1 Conduct joint City/PSE reliability workshops:** Implemented as of 2012 (reports on previous year). *Last held December 2014; next in 2015*
- ▶ **#2 Joint City/PSE planning workshops (includes #12 Long-range planning):** Implemented as of 2012. *Last held 4Q 2013; next in 2015*
- ▶ **#7 Energy Efficiency Improvements:** Implemented through CIP, grants, and resource conservation and stewardship efforts. *Ongoing*
- ▶ **#11 Multi-utility planning:** Monthly utility coordination meetings of franchise and ROW agreements. *Ongoing*
- ▶ **#6 Emergency Response:** Dedicated staff use model for pre-event coordination; OEM using PSE OMS; city public information staff coordinating; OEM meeting monthly with PSE

ERS recommendation status: In progress

- ▶ **#3 Integrated Resource Plan:** City represented on 2015 IRP Advisory Group. *Expected to complete 3Q 2015*
- ▶ **#5 Community Communications:** City and PSE personnel coordinate implementation of new integrated systems. *Ongoing since April 2013*
- ▶ **#10 Smart Grid Strategies:** Separate strategies being phased in, looking for alignment smart grid devices for grid reliability operations. City looking to smart grid devices as part of Smart City Vision. *Ongoing*
- ▶ **#8 Undergrounding Distribution Lines:** Recent and current utility project coordination where the city has initiated undergrounding; also Comp Plan policy recommendations in Public Review Draft. *Council review in May-June 2015*

ERS recommendation status: Not in progress

- ▶ **#4 Vegetation Management:** Awaiting resources. *Docketed into DSD 2015-2016 work program*
- ▶ **#9 City Interface with WUTC:** Awaiting resources. Electrical system matters to be assigned to city department portfolios. *Action in 2015.*

How reliable is our system?

	SAIDI (minutes)		SAIFI (outage events)	
	BELLEVUE	PSE	BELLEVUE	PSE
▶ 2009	88.2	189.9	0.58	1.09
▶ 2010	91.1*	287.0	0.44	0.86
▶ 2011	86.1*	281.0	0.60	1.02
▶ 2012	52.4*	245.0	0.40	0.92
▶ 2013	100.7**	247.0	0.41	0.86

*Single year figures including storm outage minutes

**Four year rolling average figure including storm outage minutes

How does this reliability compare with others?

- ▶ IEEE peer utilities rankings of PSE in SAIFI and SAIDI improvements percentage:
 - ▶ In the 2012 IEEE survey of 106 member utilities, PSE ranked in the top 18th percentile (1st quartile) and in the 46th percentile (2nd quartile) of SAIFI and SAIDI, respectively. PSE ranked better than in 2011.
 - ▶ In the 2013 IEEE survey of 93 member utilities, PSE ranked in the 28th percentile (2nd quartile) and in the 46th percentile (3rd quartile) of SAIFI and SAIDI, respectively.

Questions?

