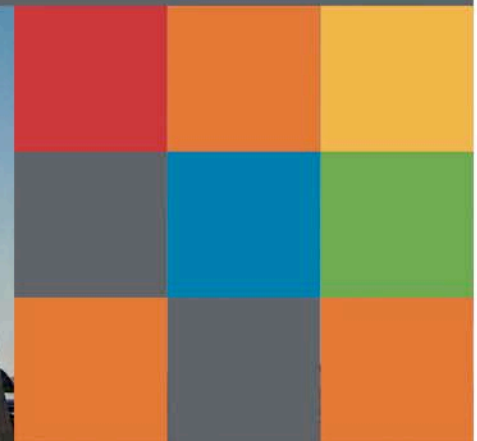
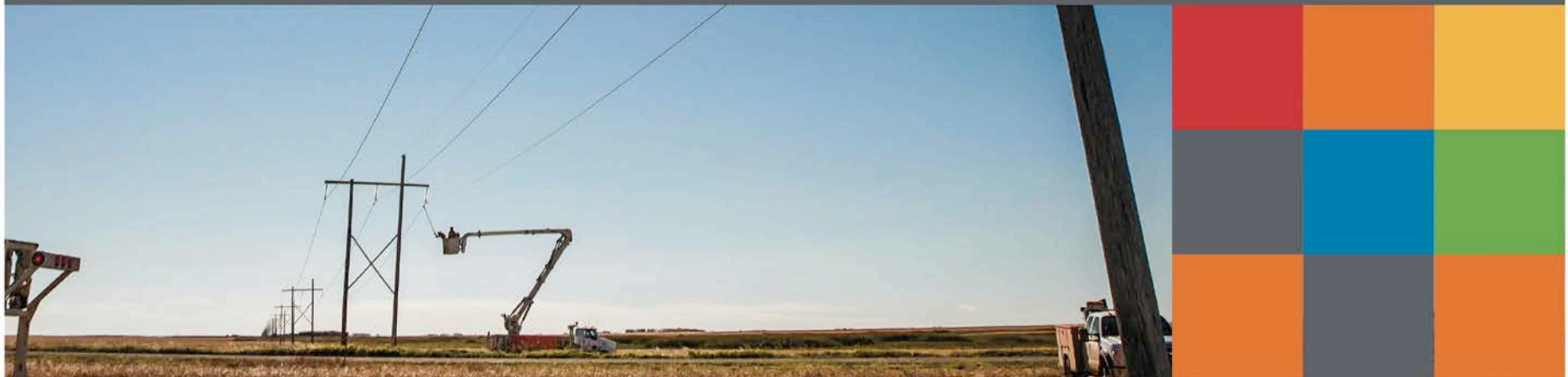




 **SaskPower**
Powering the future[®]

PA4 & B4P 138 kV TRANSMISSION LINE UPGRADE PROJECT

CONSTRUCTION UPDATE
JANUARY 2018



ABOUT SASKPOWER

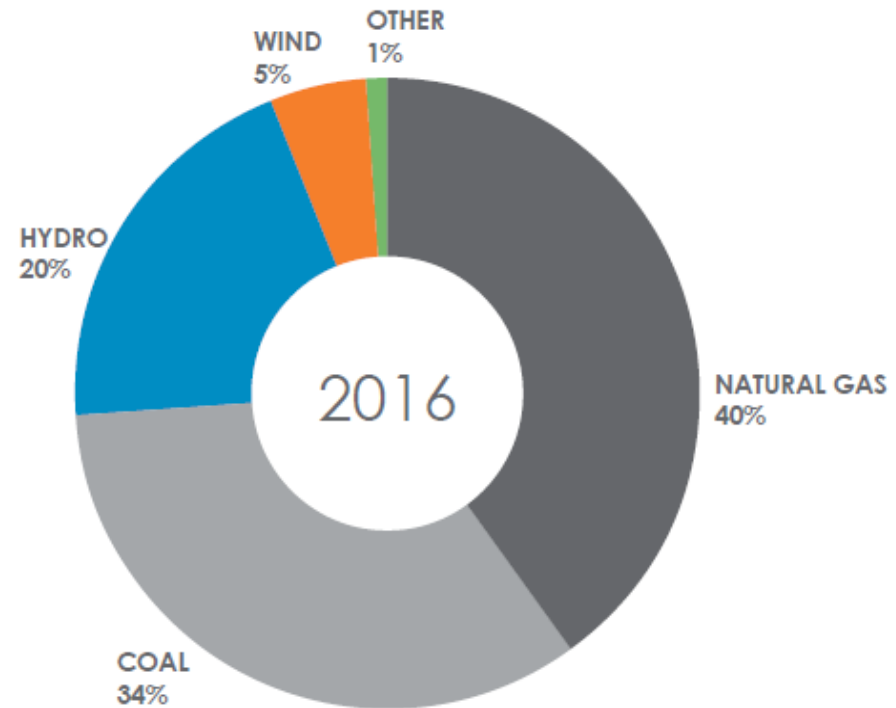
OVER 528,000
CUSTOMERS

3,747 MW
NEW PEAK
LOAD (2017)
ALSO NEW
SUMMER PEAK
AT 3,470 MW

158,000 KM OF
POWER LINES

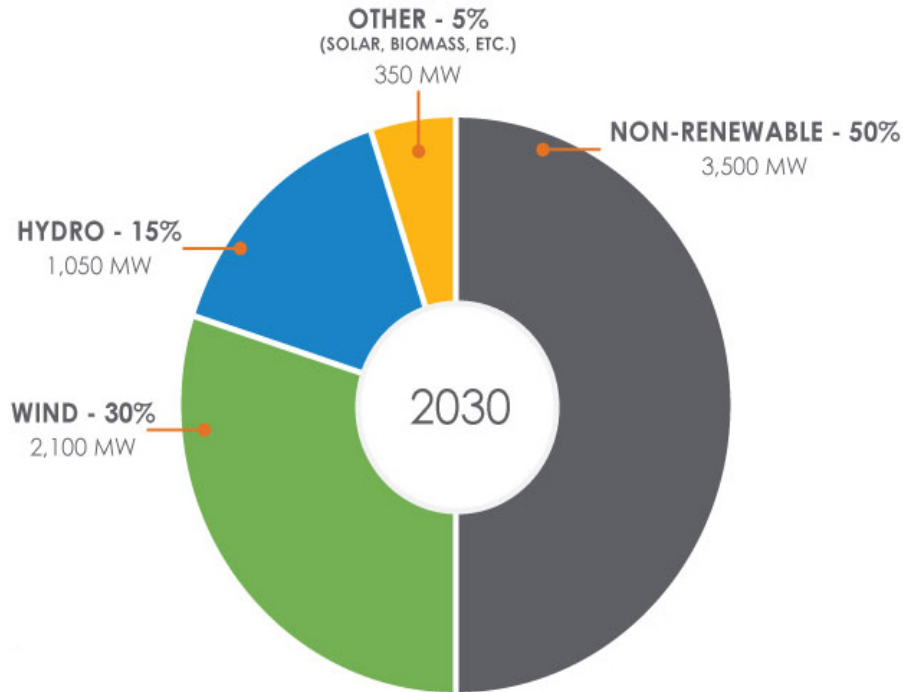
MORE POWER
POLES (1.25 M)
THAN PEOPLE!

OUR MISSION: Ensuring reliable, sustainable, cost-effective power for our customers and the communities we serve.



4,491 MW

2030 SNAPSHOT



GENERATING CAPACITY
7000 MW

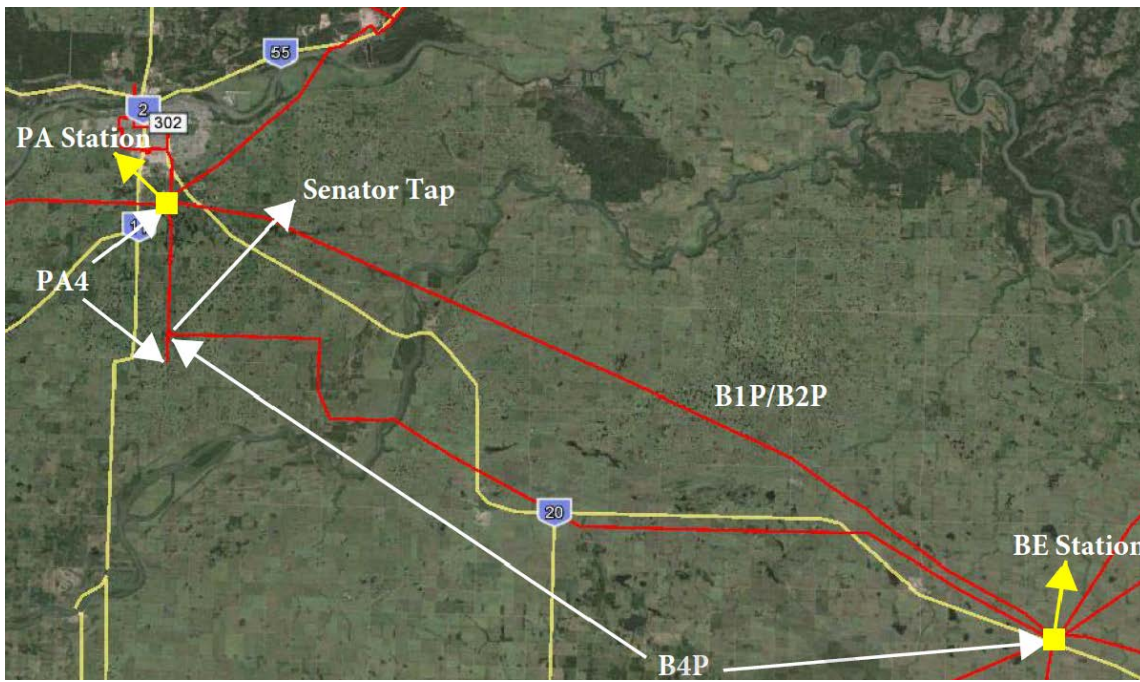


**ADDING ABOUT 2,200 MW TO
OUR GENERATION MIX**

**ADDING MORE POWER LINES
TO DELIVER ELECTRICITY TO
OUR CUSTOMERS**

PROJECT NEED

- SaskPower is investing in the province's electricity system to ensure we have the infrastructure in place to meet the growing need for reliable, sustainable and cost-effective power in Saskatchewan.
- As part of this investment, SaskPower has initiated a project to rebuild two aging power lines that service Prince Albert and area:
 - The PA4 line connects the Prince Albert Switching Station just south of the city and east of the Number 2 Highway, to the Senator Substation 10 kilometers (km) south from there.



- The B4P line serves the Senator Station through a tap off the B2P line at the Beatty Switching Station. B4P is approximately 65 km in length.
- PA4/B4P serve as a backup to the Prince Albert Station should anything disrupt service over the B1P/B2P line.

ABOUT THE PROJECT

- Rebuild PA4 (~10 km) and the B4P line (~65 km) prolonging the life of the lines for at least another thirty years and adding backup for PA and area.
- Current wood H-Frame structures will be replaced with weathering steel. New structures will be slightly wider and taller. The size of conductor will be upgraded to accommodate higher load and add reliability. Shield wire will be added to protect the conductor.
- The majority of construction will take place within the existing right-of-way in order to minimize the impact on the environment, agricultural operations, and residents in the area.
- In situations where operations and maintenance are compromised by a change in landscape since the original construction (ex. new or larger waterbody), structure placement has been altered and new easement may be required.
- The estimated project cost is approximately \$30 million.

PROJECT SCHEDULE

- PA4 Re-route Design Dec 2016
- Consult with RM of PA Jan 2017
- Easement Acquisition Jan 2018
- PA4 Construction Begins Jan 2018
- B4P Construction Begins Nov 2018
- Ready to Energize Q1 2020





PA4 CONSTRUCTION SCHEDULE

- Staking/ Surveying Jan 8, 2018
- Contractor Mobilized Jan 15, 2018
- Structure Work Jan/Feb 2018
- Stringing Work Feb/March 2018
- PA4 Closing Activities March 2018
- Ready to Energize May 2018

Old: Single-Circuit
Wood H-Frame
Tangent Structure



New: 138 kV Single-Circuit
Weathering Steel H-Frame
Tangent Structure



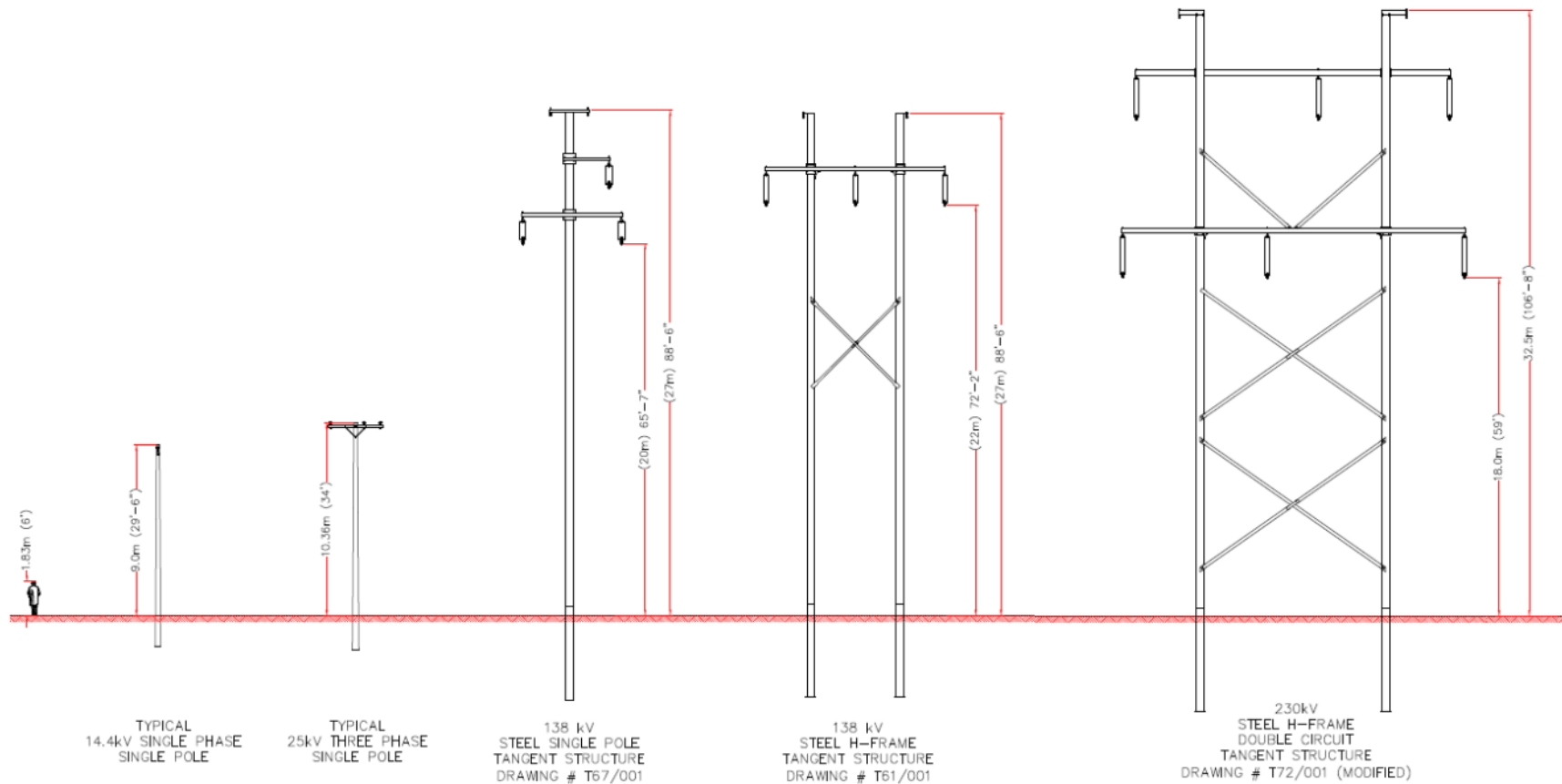
138 KV MINIMUM CLEARANCE OF CONDUCTOR

Over Highway	7.80 metres (25.6 feet)
Over Farmland	7.50 metres (24.6 feet)
Over High load Corridors	10.65 metres (34.9 feet)
Over Railways	8.70 metres (28.5 feet)

TYPICAL 138 KV RIGHT-OF-WAY WIDTH

Single-Pole Right-of-Way	20 metres (65.6 feet)
Two-Pole H-Frame Right-of-Way	35 metres (114.8 feet)

SIZE COMPARISON OF DISTRIBUTION & TRANSMISSION LINES



QUESTIONS?

Call: 1-855-566-2903 or
Email: PublicConsultation@SaskPower.com

