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# Why Carbon Free Power Project (CFPP) for Idaho Falls Power?

**Line Commission Meeting**

Idaho Falls – May 16, 2019

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**Bear Prairie**

**General Manager**

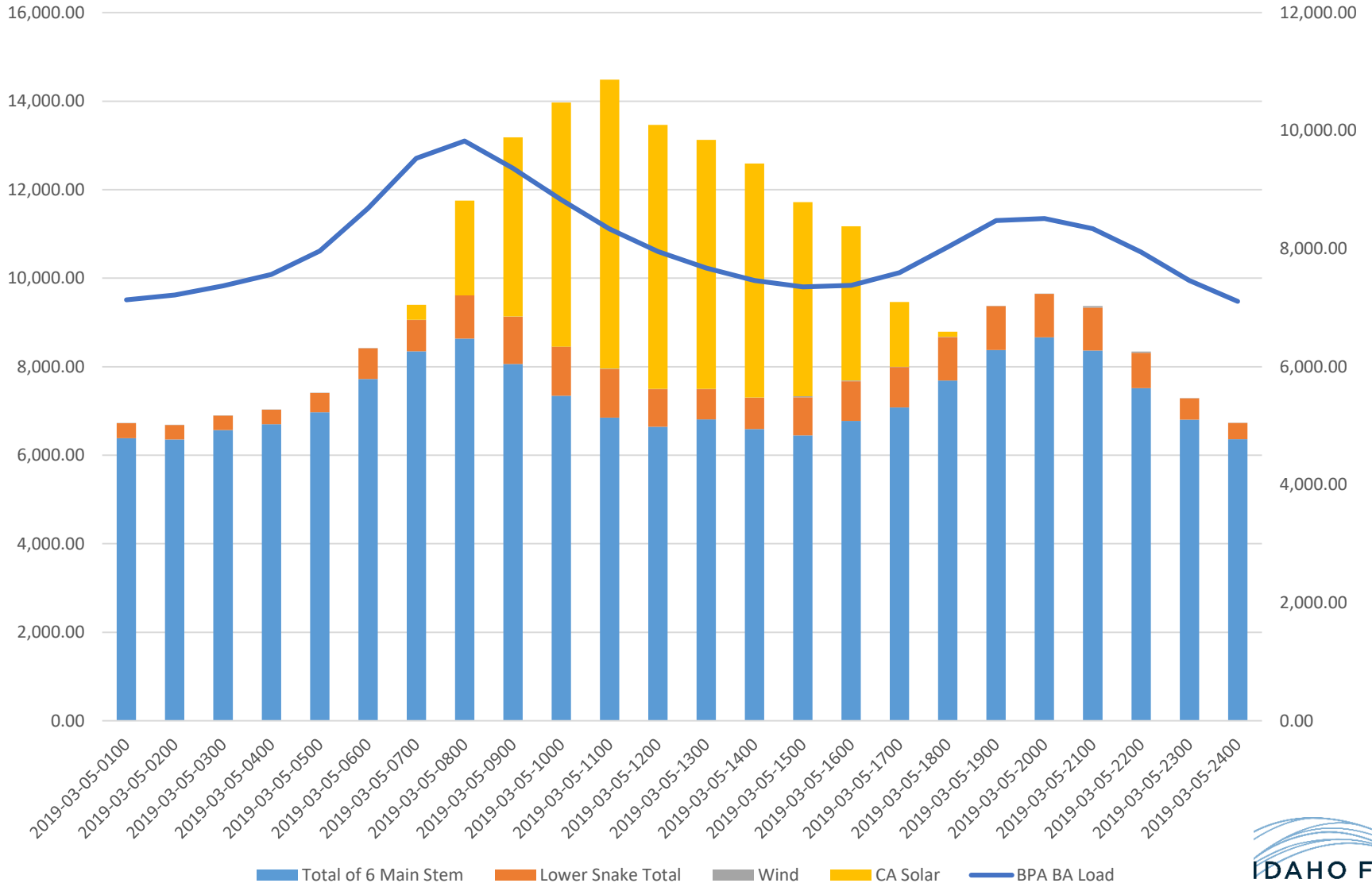


# Idaho Falls Power

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- Municipal Utility founded in 1900
- Serves inside the city limits of Idaho Falls
- Legacy of owning power supply resources
  - 4 dams on the snake river running through town
- City electric growth since 1960's was met with power purchases and BPA preference power
  - On average we purchase 65% of our power from BPA and/or wholesale market
- 24,100 Residential Customers
- 4,210 Commercial & Industrial Customers

# March 5<sup>th</sup> BPA Hourly Load & Certain Resources

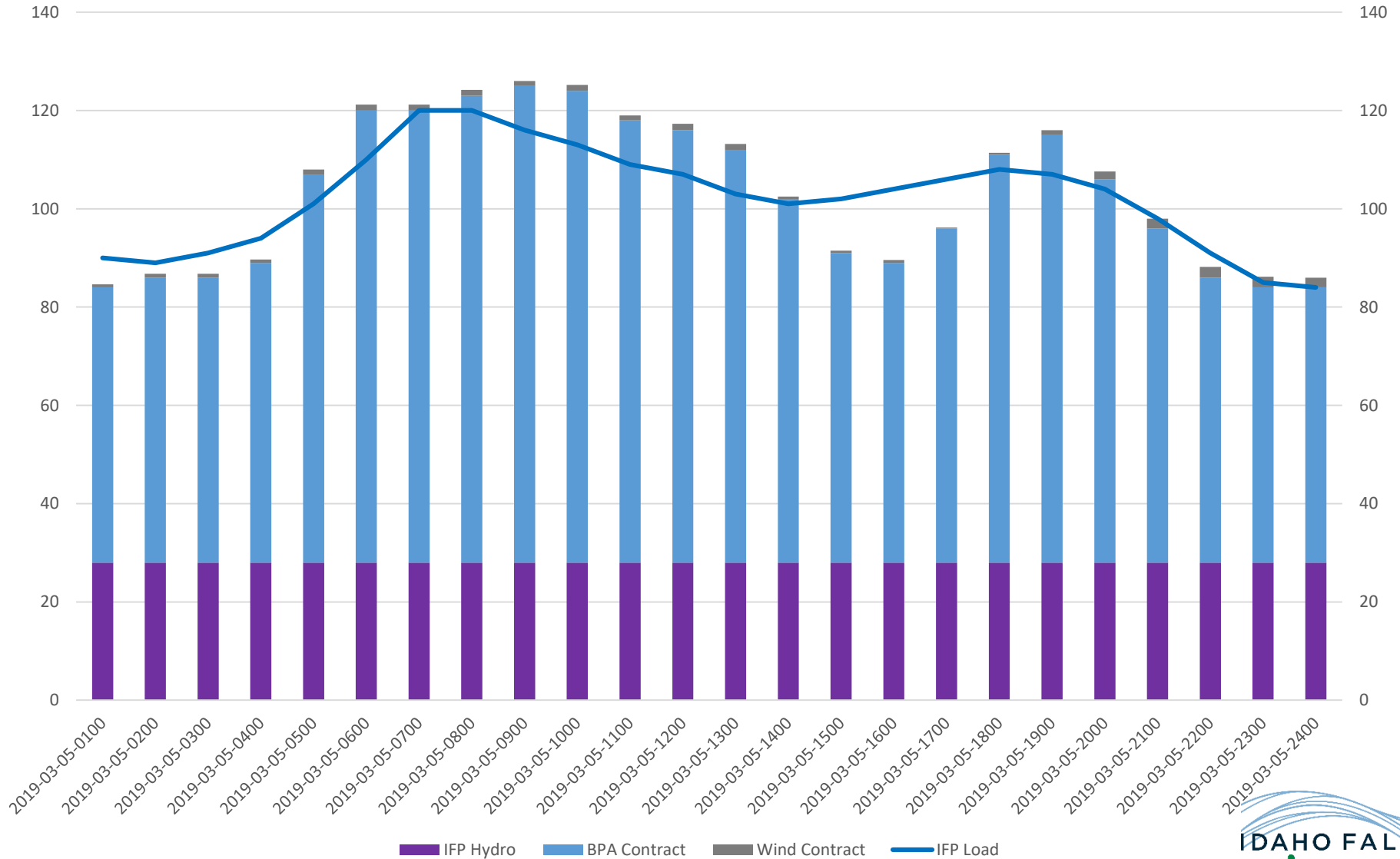


# Take away from Previous Graph

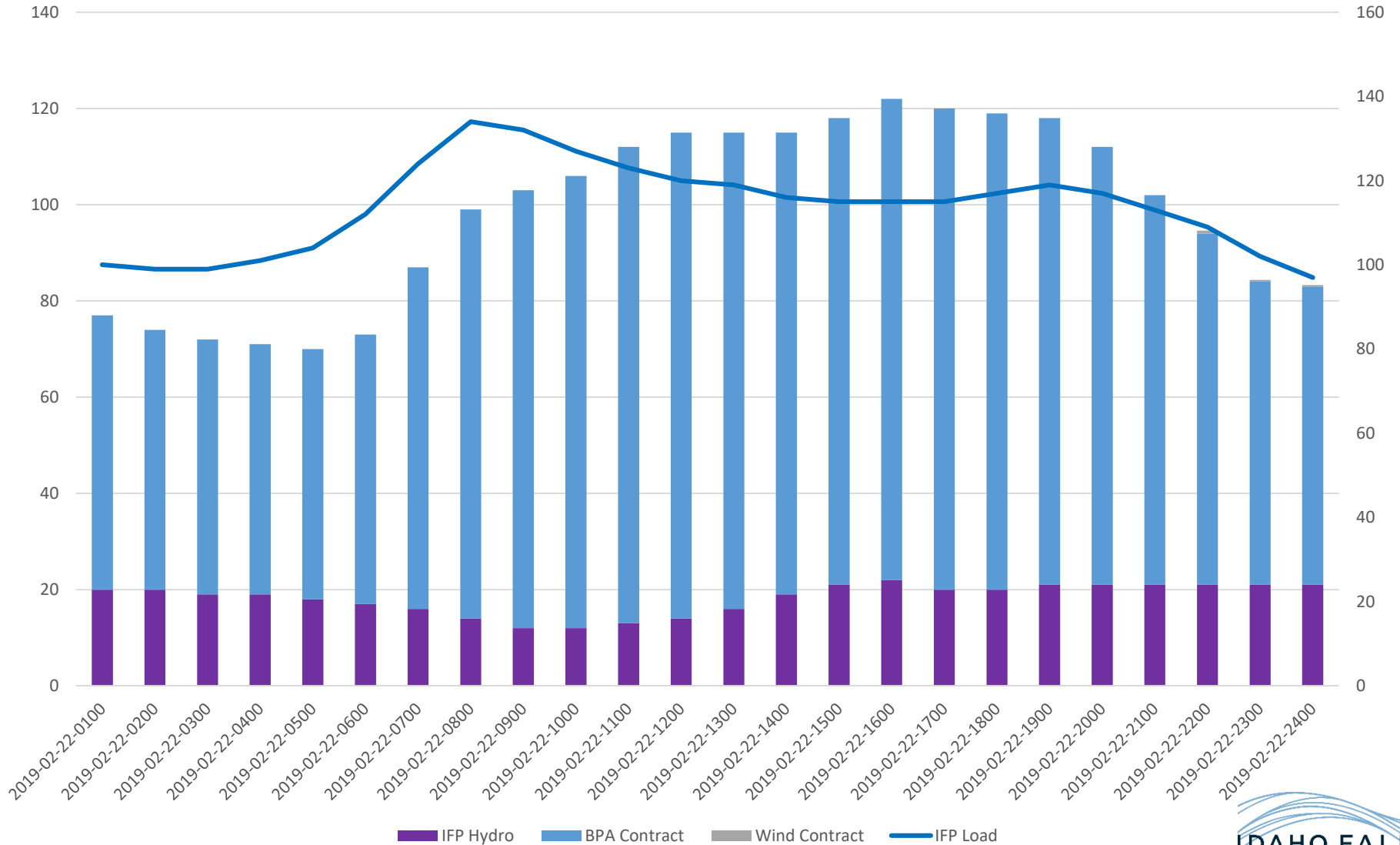
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- Wind Resource almost zero - 2,648 MW capacity
- Solar is total grid scale in California – 11,560 MW capacity
- Non Dispatchable resources will not meet peak demand periods
- Northwest hydro system is flexible to meet peaks but need to add resources as loads grow and existing resources retire

# March 5<sup>th</sup> Idaho Falls Power Load & Resource



# February 2019 Peak - Idaho Falls Power Load & Resource



















# Why CFPP for Idaho Falls Power?

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- Loads continue to grow
  - Summer Peaks are growing 1.8 % per year
  - Annual energy consumption starting to grow again
- Maintain Carbon Free Portfolio
  - Currently Idaho Falls Power has zero emissions in it's owned generation resources and long term contracts.
- Limit exposure to market price risk
  - Strategy: A diversified mix of resources without overreliance on market.
- Resource attributes
  - Baseload and flexible resource that meets customers peak demands

# Resource Costs and Value

IFP Resource Costs & Planning	\$ MWH	Firm Resource	Peak Energy	Cost of 20 MW for 7 Days
BPA Total Contract FY 2018	\$31.66			\$106,377
Idaho Falls Existing Hydro	\$21.25			\$71,400
Idaho Falls owned Wind Project	\$63.32			
Small Modular Reactor	\$50 - \$60			\$168,800 - \$201,600
Market During Early March	\$1,000			\$3,336,000
Mid-C Market Price 2020-2024	\$36.75			\$123,480
Grid Scale Solar	\$24.00			





Thank You.

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