DOCKETED

Docket Number:	16-OIR-04
Project Title:	Integrated Resource Plans (Publicly Owned Utilities)
TN #:	214844
Document Title:	Presentation - Integrated Resource Planning: Imperial Irrigation District By: Scott Harding
Description:	December 13, 2016
Filer:	Le-Huy Nguyen
Organization:	Imperial Irrigation District
Submitter Role:	Public
Submission Date:	12/16/2016 3:15:20 PM
Docketed Date:	12/16/2016

Integrated Resource Planning:
Imperial Irrigation District

12-13-16

CEC IRP Workshop

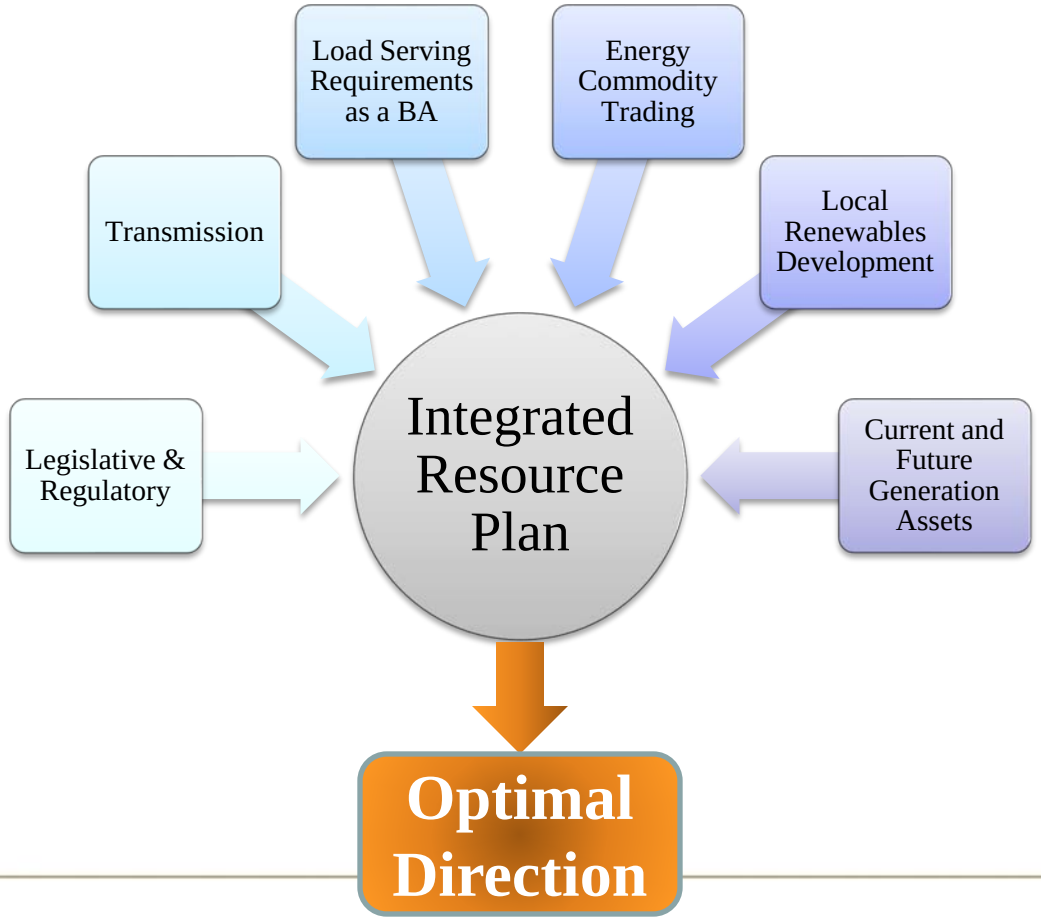
IID
A century of service.

Overview

- Objectives of the IRP
- IRP Development Process
- Key Drivers of IRP
- Adjusting to SB350 Requirements
  - *Questions addressed*
- Current Status and Next steps

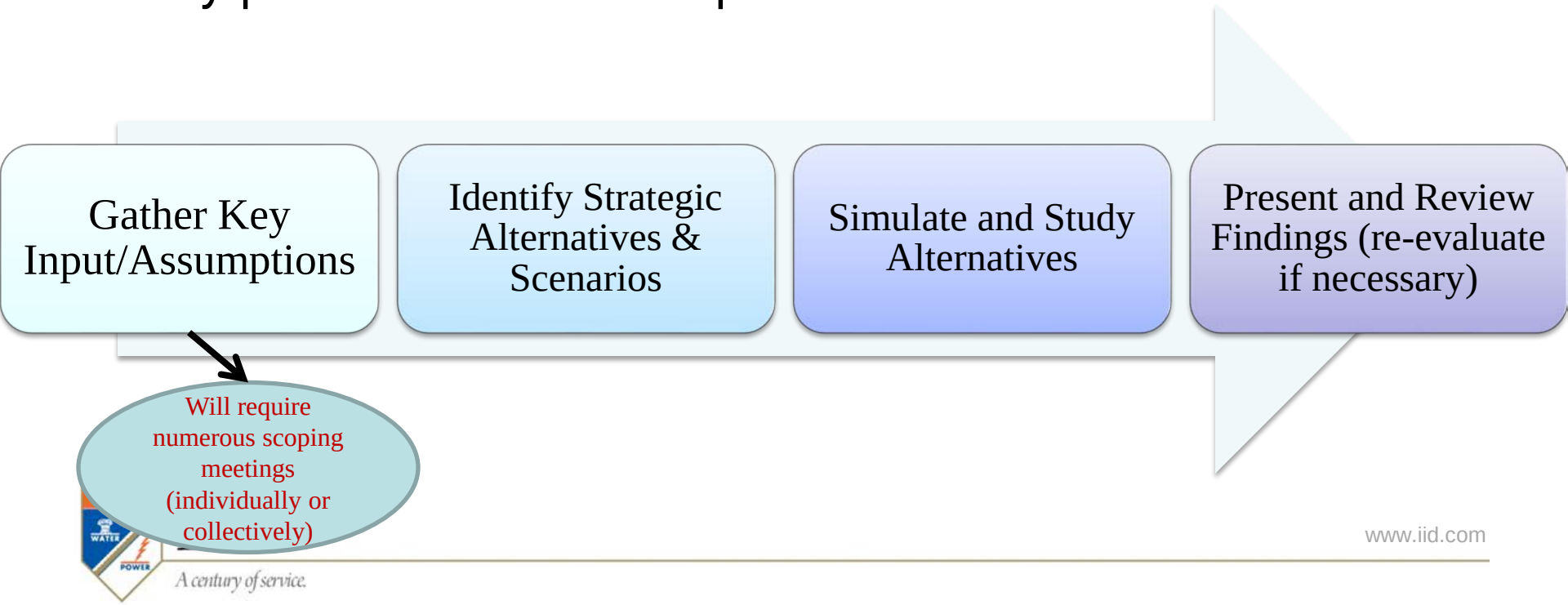
Objectives of the IRP

- Sustain IID's overall mission to continue as a fiscally responsible public agency providing reliable, efficient and affordably priced energy services.



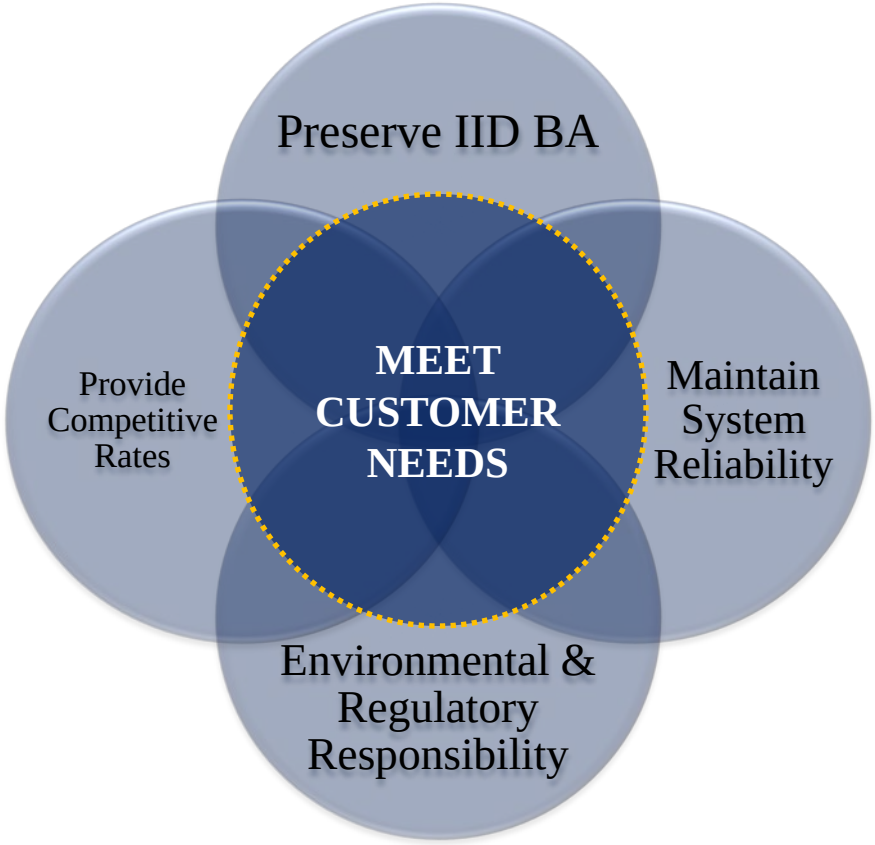
IRP Development Process

- Each section of the Energy Department works together in a collaborative team effort
- Key phases of IRP development



Key Drivers of IRP

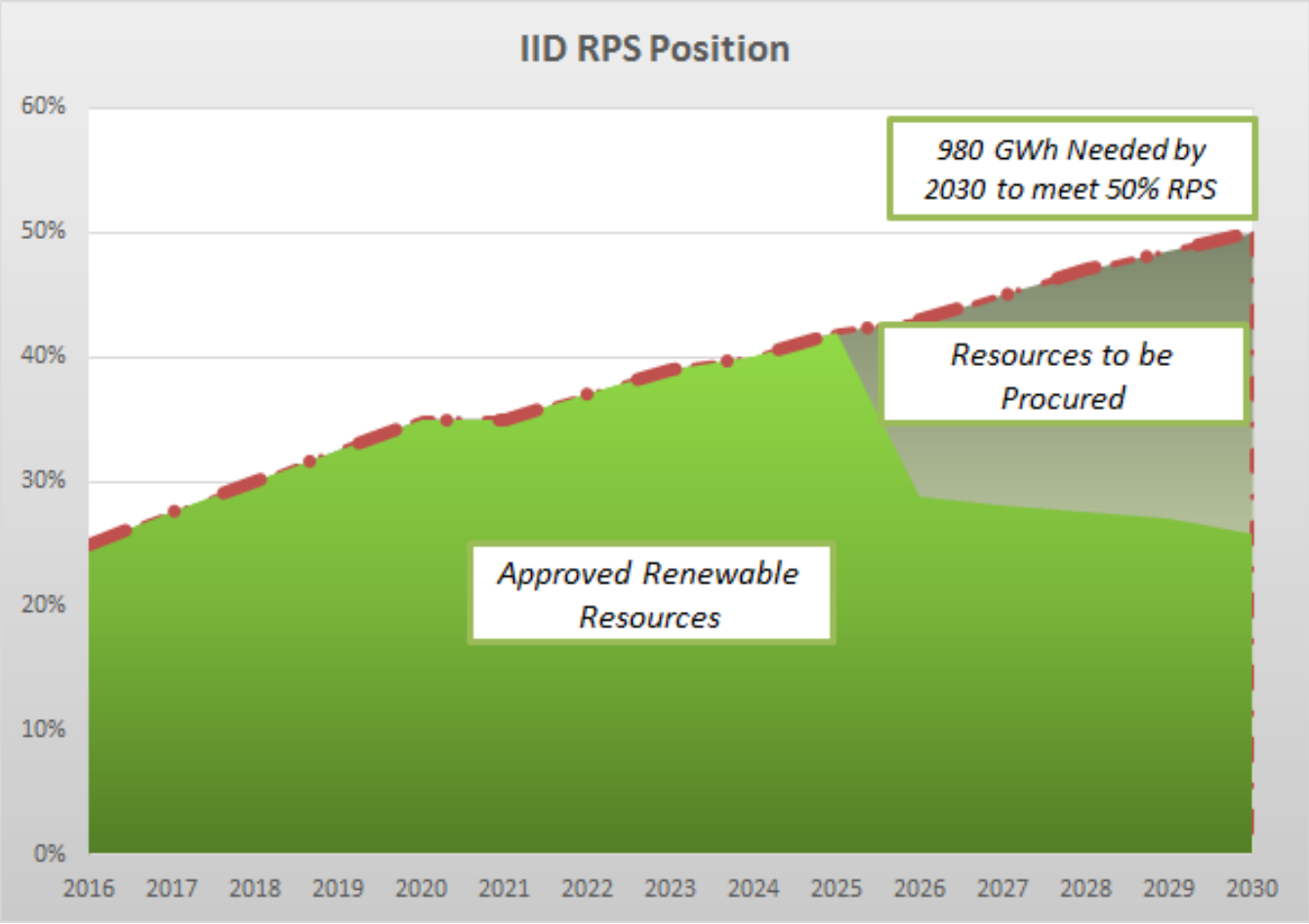
- Preserve the IID BA
- Maintain System Reliability
- Provide Competitive Rates
- Meet Environmental and Regulatory Responsibility
- Meet Customer Needs



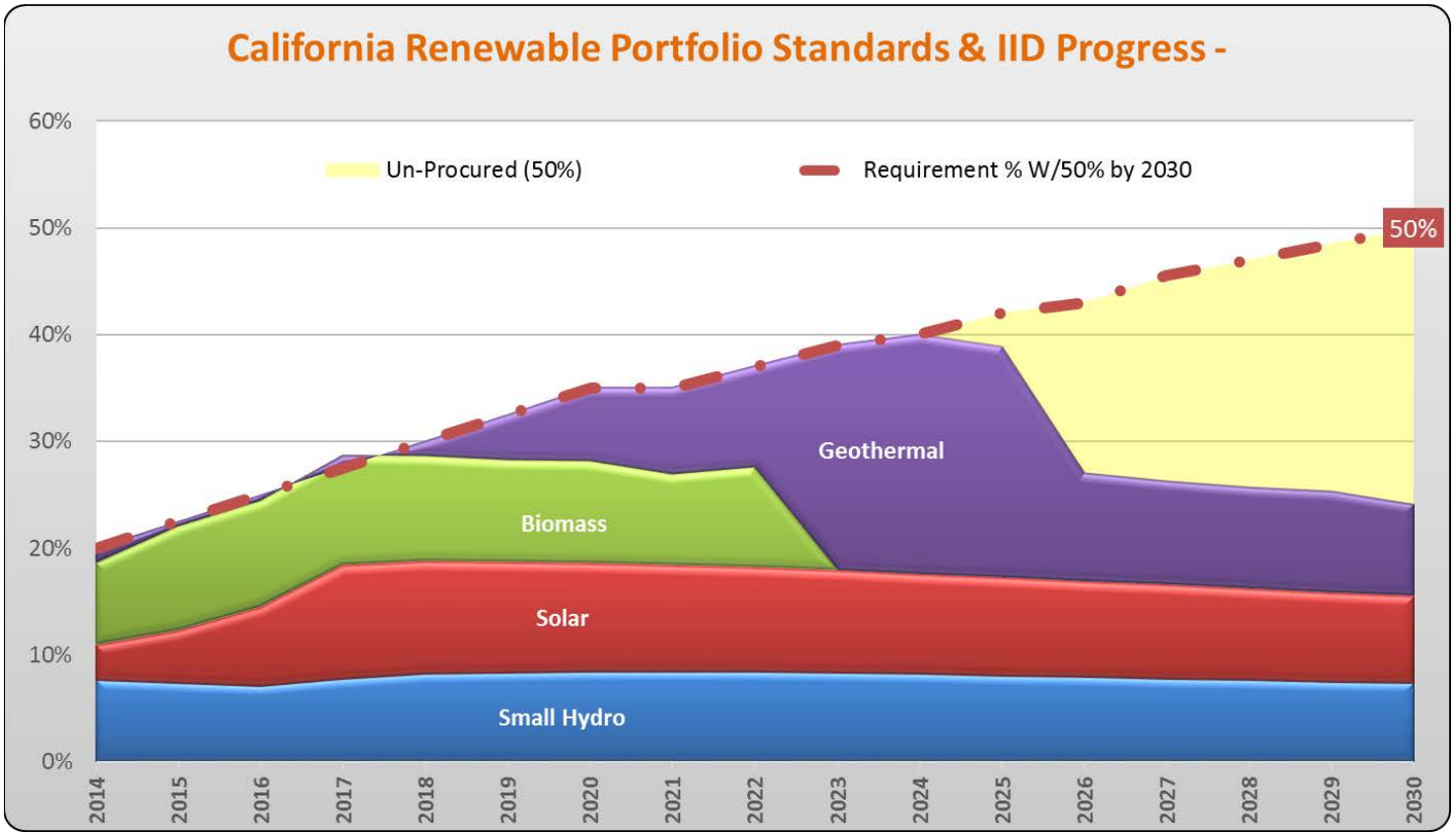
Adjusting to SB350 Requirements

- *Expecting to be well above the 33% 2020 target*
- *Major Obstacles Integrating to a 50% Portfolio*
  - IID will meet 50% target
  - Cost, Risk and Operations
  - Integration as a BA
  - 50% is 2,030,000 MWh in 2030 vs 50% as 1,700,000 MWh in 2020
  - Process & Timing
    - *How will targets be administered*
    - *Emissions targets and RPS*
    - *Determining best mix that may change as conditions change*
  - Forecast Error

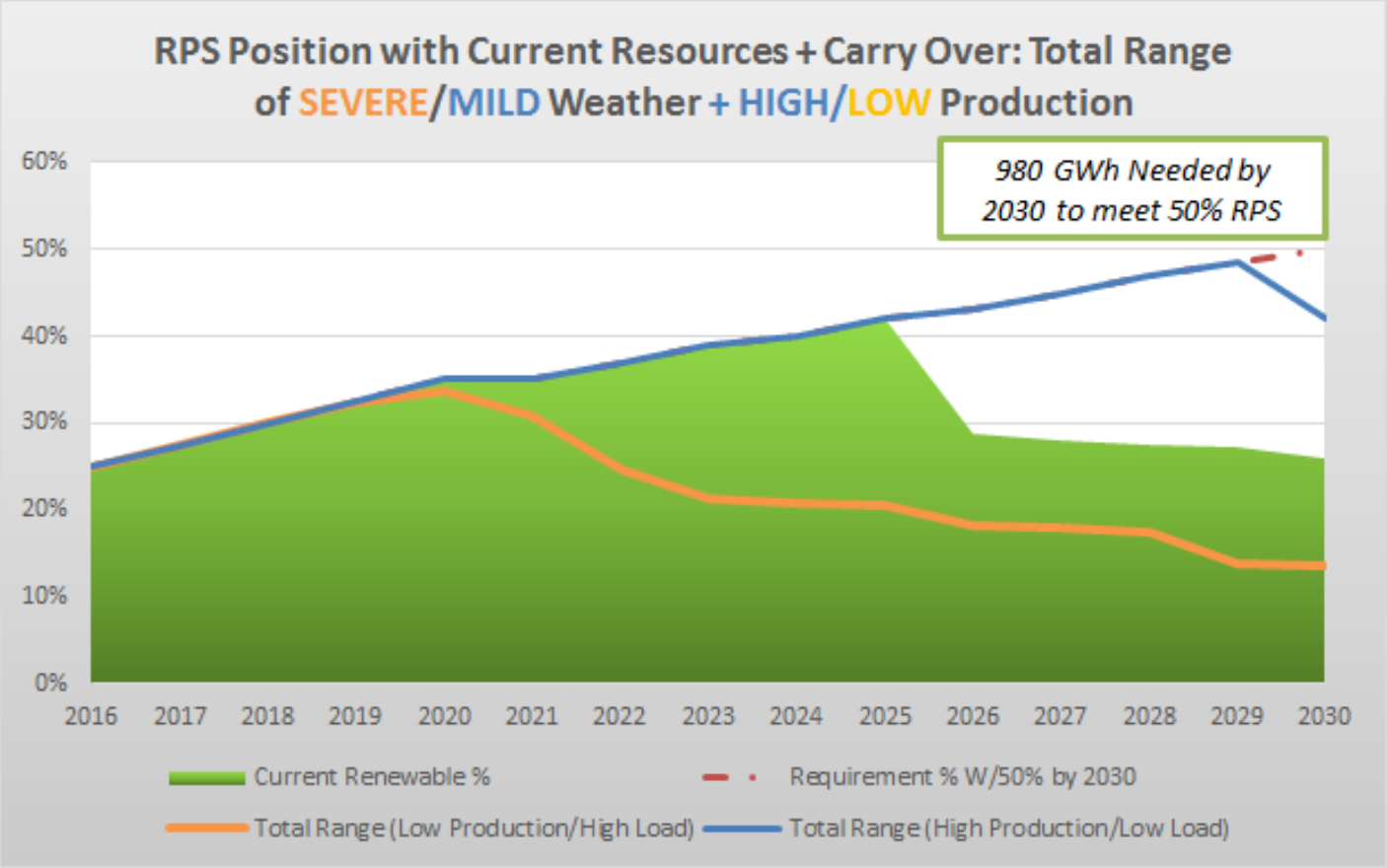
RPS Position



RPS Position by Resource Type



Forecast Risks



Adjusting to SB350 Requirements (Cont.)

- *Role of Energy Storage in Meeting the 50% renewables goal*
  - Where flexibility is absent, quick response is critical
  - Degree of Role will depend on pricing and comparative alternatives at the time of decision
  - Can help integrate less stable resources
  - Common assumptions can be difficult to apply in the same manner for the many different types of utilities
  - Will learn from our recently installed battery
- *Information from CEC:*
  - Close coordination
  - Clear picture of compliance mechanisms
  - Public perception

Adjusting to SB350 Requirements (Cont.)

- *Role of DERs*
  - Evaluate each resource carefully
  - Behind the meter programs that allow greater understanding of DERs will help prevent loss of reliability control
  - Smart metering and smart grid
  - System upgrades are currently underway

Current Status and Next Steps

- Current IRP in draft form
  - *Assumptions used, but SB350 will provide:*
    - Specific guidelines and metrics of:
      - *How to meet 50% and emissions targets*
      - *Increase EE*
      - *Low income communities*
      - *Vehicle electrification*
      - *IRP development standards*
- Will begin development of next IRP as guidelines are released
  - *Use current IRP as a starting point*
  - *Obtain help and input where needed*